CURRICULUM VITAE

Prof. Dr. K. MURUGAN

M.Sc., M.Phil. Dip.Ent., Ph.D., D.Sc.,

VICE-CHANCELLOR
Thiruvalluvar University
(State University)
Serkkadu, Vellore - 632 115
Tamil Nadu, India.

Earlier positions:

i. **Professor and Head,** Department of Zoology, Bharathiar University

ii. **Professor and Head i/c.,** Department of Human Genetics & Molecular Biology, Bharathiar University

iii. **Director i/c. (R&D), Research and Development Centre, Bharathiar University**

iv. **Additional Dirctor, DRDO-BU, Centre for Life Sciences, Ministry of Defence, Government of India,** Bharathiar University, Coimbatore-641 046, India.

v. **Scientist cum Scientist-in-Charge,** Indian Cardamom Research Institute, Spices, Regional Research Station, Govt. Of India, Thadiyankudisai, TN, India.

Research Excellence:

Awards Won:

1. STA (Science and Technology Agency) fellowship: Awarded by Research Development Corporation of Japan, at Department of Insect Physiology and Behaviour, National Institute of Sericultural and Entomological Science, Japan.
2. Award from FAO (Food and Agricultural Organisation) Italy to attend and present a paper on at World Forestry Congress held at Antalya, Turkey during 13-22 October 1997.
3. Award from Dan Charitable Trust Fund Research for Biological Sciences, Tokyo, Japan to attend the 13th International Congress on Comparative Endocrinology, Yokohama, Japan during 16 to 21st November 1997.
4. Awarded a Commonwealth Fellowship by the Association of

Commonwealth Universities in the United Kingdom for the year 2000, at Department of Zoology, University of Oxford, UK for one year from October 2000 to September 2001.

5. Awarded Visiting Fellowship programme -JIST -UNU WORK WORKSHOP at Gwangju Institute of Science and Technology, Gwangju, Korea during 13. 2nd - 4th November, 2005.
6. CAS-TWAS fellowship awardees 2006-In the field of Agricultural Sciences - Climate Change Training Programme, Institute of Zoology, Chinese Academy of Sciences, Bejing, China, 10/7/2007 to 11/7/2007
7. Awarded Best Faculty Award for Bio-Science (2009) from Sourthern India, Awarded by Nehru Group of Institution, Bharathiar University, Coimbatore, India. It Carries Citations, medal, and Rs.10,000/- Cash Award.
8. Award from CSIRO, Australia for the GREEN HOUSE 2011, The Science of Climate Change – at Cairns, 4-8, April, 2011, Australia
10. CREST AWARD from Department of Biotechnology, Government of India, New Delhi to work at USDA-ARS-CMAVE, USA for three months from May, 2011 to August, 2011.UGC BSR Scientist Award 2011 - One Time Grant Awardee From University Grants Commission, New Delhi for producing higher number of Ph.D. thesis (full time) R. 7,00,000/-
11. Awarded - Chris Lomer Award for Insect Pathology 2012 and attended International Congress on Invertebrate Pathology and Microbial Control & 45th Annual Meeting of the Society for Invertebrate Pathology was held from August 5 to 9, 2012, Buenos Aires, Argentina.
12. Post-doctoral Award from Institute of Marine Biology, National Taiwan

Ocean University, Keelung, Taiwan to work with Aqustic Larvicide for the control of Dengue Vector in and around Taiwan from 1st October to 17th October, 2012.

13. Awarded AustAid - Attended 13th International Conference in Wetlands Systems for Water Pollution Control, From 25th – 29th November 2012, Australia.
14. Key Note Speaker - at 10.00 am (31-01-2013) in a "National workshop on Trends and Techniques in Isolation of Bio-Active Molecules" (IBAM-2013) from 31-01-2103 to 2-2-2013 on "Chemical Ecology and Biopesticdial Application Trends" at Department of Zoology, Annamalai University, Annamalainagar – 608 002, Tamil Nadu, India.
15. Chair - "International Conference on Challenges in Aquatic Sciences". Theme 1: Sustainability in the Aquatic Environment, at 09:30-10:30 on Mar-16 (Sat.), held at National Taiwan Ocean University, Keelung, Taiwan from 15-18, March, 2013.
16. Chair – National conference on "Role of biotechnology in conservation of biodiversity" (9th & 10th April 2013) Kongunadu Arts and Science College, Coimbatore-641 029, India at 9th April 2013 during the afternoon session under Animal Diversity and delivered invited lecture on "Biodiversity of butterflies and their conservation strategies in Western Ghats, Southern India".

18. Chair – at Symposium (1): BCGC and Biodiversity: Department of Zoology, School of Life Sciences, Bharathiar University, India and Delivered Invited Lecture on "*Impact of climate change on the conservation and management of agricultural and medical and veterinary insects" at International* Symposium of *Integrative Zoology*.

Beijing, China, 25–28 June 2013.

19. Honour - Kenthoth Adiyodi Memorial Lecturer at Thirteenth International Congress on Invertebrate Reproduction and Development (ICIRD-2013), July 14-19, 2013, Detroit, MI, USA.

20. Organiser – Symposium on Medical Implications of Invertebrates at Thirteenth International Congress on Invertebrate Reproduction and Development (ICIRD-2013), July 14 – 19, 2013, Detroit, MI, USA.

21. Organising Secretary, GW-BIMC, 2013-3rd International Congress on Invertebrate Reproduction, from 25-27, November, 2013 at Bharathiar University, Coimbatore- 641 046, India.
22. Chair - The International Symposium on Research and Conservation of Asian Butterfly Diversity, Taipei Zoo, and National Taiwan Normal University, was held Oct. 18-19, 2013, Taipei City, Taiwan.
23. Chair – Sessions: Predatory Copepods - The 12th International Conference on Copepoda July 14th-18th, 2014; Hanyang Institute of Technology (HIT); Hanyang University; Seoul, Korea.
24. **Chief Guest for Vaedictory function:** TRAINING ON BIOLOGICAL DIVERSITY ACT, 2002 (12th and 13th March 2015) INSTITUTUTE OF FOREST GENETICS AND TREE BREEDING COIMBATORE, India.
25. Chair – International Conference on Multidisciplinary Biology, at National Taiwan Ocean University, Keelung, Taiwan from 14-18, June, 2015.
26. Chair – International Conference on Translational Sciences and Drug Discovery –2015, 27-29 July 2015, Mauritius.
27. Chair- International Plant Protection Cooperation and Development

Symposium10-12 September 2015, Changchun, China.

28. JSPS Invitation Awardee -2015 (a prestigious fellowship from Japan), to work on ecosystem studies at Shiga Prefecture University, Japan.
29. Awardee of to have joint project with Shanghai Agricultural Sciences for the development of One Belt One Road Programme of China – 2015.
30. Scientific Advisor - Laser and Nano Physics and Astronomy, Dept College of Science Riyadh 11451, King Saud University, Saudi Arabia.
31. Complimentary membership to The Science Advisory Board, an Exclusive global Network of Life Science and Medical Professionals. - The Science Advisory Board, 2111 Wilson Blvd #250, Arlington, VA 22201, USA.
32. Advisor/member project evaluation committee – Natural Products – International Foundation for Science, Sweden.
33. INDICASAT-ABAP Young Scientist Award for 2016, for Biotechnological Research Innovations. This award is sponsored and installed by INDICASAT (Institute of Scientific Research and High Technology Services (INDICASAT), Republic of Panama.
34. 100-taltened programme Award, Shanxi University, China, 2016.
35. **Invited speaker:** "104th Indian Science Congress (ISCA), Organized by Sri Venkateshwara University, Tirupati during 3–7 January, 2017.
36. Steering Committee Member: Nominated by Government of Tamil Nadu, State Level Eligibility Test (SET) – Mother Teresa Women's University, Kodaikanal, TN: (G.O.(2D) No.67 dated 01-12-2016, by Higher Education (H1) Department, Tamil Nadu. 01-12-2016 to till date

37. Vice-Chairman: Tamil Nadu Science and Technology Centre, Government of Tamil Nadu, India. G.O. (Ms) N0.6 dated 04.01.2017-04.01.2017 to till date.

38. Faculty Research Award-2018, (Top 10 in India) for the Outstanding Researcher in the field of Immunology and Microbiology by Carrier360, New Delhi.

39. Visiting Scientist: to School of Life Science, Shanxi University, China (2018-2021).

40. Invited Lecturer: Confernece on Cross Straight Marine Biodiversity Exchange meeting at Xiamen, China from 12-15 August 2018. Presented paper entitled "**Mosquitocidal, Biological, Antiviral and Medicinal properties of Nanochracterized chitosan from marine crab, *Xenograpsus testudinatus*".**

41. Visiting Scholar: School of Environment and Ecology, Xiamen University, China on 16th August, 2018.

Google Scholar

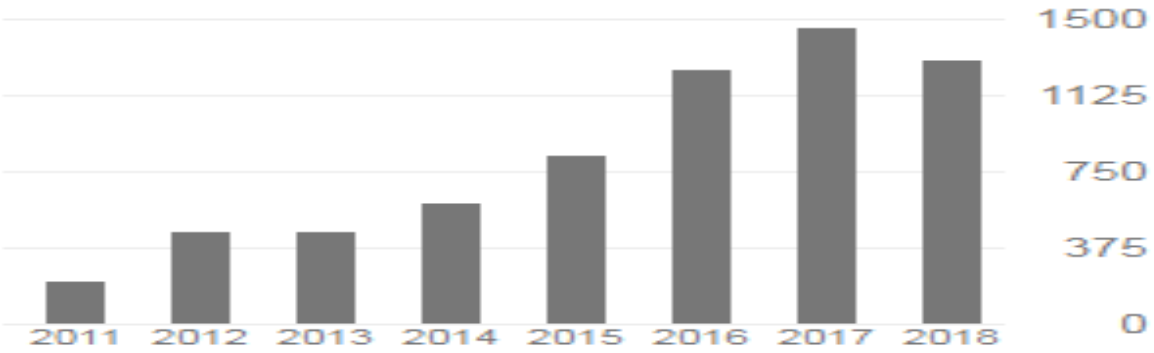
Kadarkarai Murugan

VICE-CHANCELLOR, THIRUVALLUVAR UNIVERSITY, VELL
Verified email at buc.edu.in - Homepage

Entomology Nanoinsecticides and Natur...

Cited by VIEW ALL

	All	Since 2013
Citations	7178	5907
h-index	45	41
i10-index	175	156



Academic Excellence

Research gate:
https://www.researchgate.net/profile/Kadarkarai_Murugan2

Kadarkarai Murugan - Google Scholar Citations
https://scholar.google.co.in/citations?user=eBpex5gAAAAJ&hl=en

Higher Degree Achieved: Doctor of Science (**D.Sc.,**)

Total No. of Paper Published: 455

Total No. of Papers in Conferences: 310.

Total No. of Books: 2

Total No. of thesis produced: Ph.D - 42

Total No. of thesis produced: M.Phil- 54

Total No. of thesis produced: M.Sc-91

Total No. of projects: Completed-9

Total No. of on-going projects-3 (DST-SERB, DBT, TNSCST)

Total No. of ongoing Ph.D. thesis 8

Total Number of Post-doctoral students-7

Ongoing research students:8

Post-doctoral students:5

Country Visited: USA (3 times), Oxford, UK, Canada, Australia (4 times), Japan (3 times), China (8 times), S. Korea (2 times) Taiwan (7 times), Thailand (2 times), Turkey, Mexico, Sweden, Denmark, Finland, Singapore (3 times), Oman, Muscat, Malaysia, Hongkong, Ireland, Argentina, Mauritius, Saudi Arabia,

International Projects:

- Chinese Academy of Sciences, China for biological control crop insects.
- South to South Trilateral Project (Uganda, India and Argentina) from United Nations, New York-Community involvement for mosquito vector control.

Committee Members:

a) UPSC, UGC, DST, DSIR, DBT, CSIR, TNSCST, ICMR. Govt of India.
b) Scientific Advisor for the Projects Evaluation committee member (Natural Product), International Foundation for Science, Switzerland.

Reviewers for Journal:

Current Science, Ind. J. of Med. Res., Ind. J. of Expl. Biology, Entomol. Soc., of America, Insect Science, Blackwell, Ecol. Indicator, Elsevier., Journal of Invertebrate Pathology. Acta Tropica, Asian pacific journal of tropical medicine, Aquaculture, Carbohydrate polymers, Chemosphere, Environmental pollution, Journal of infection and public health, Journal of Invertebrate Pathology, Materials and design, Materials chemistry and physics, International Journal of Hydrogen Energy, PLOS ONE, Carbohydrate

External Examiners:

University of Madras, University of Kerala, University of Kannur, Bangalore University, Bharathidasan University, Pondicherry University, Madurai Kamaraj University, Mysore University, Tirupathi University, Mizoram University, Delhi University. Chinese Academy Sciences, Beijing. National Taiwan Ocean University and University of Florida.

Standing Committee Member:

Member of Standing Committee and Academic Affairs, Bharathiar University, Coimbatore – 641 046, India.

Member of the Inspection Squad:

Member of the Inspection Squad for the University Written Examination in April / May, 2014

Administrative Excellence:

- Worked as Scientist (Entomology) and Scientists-in-charge (Regional Director), Regional Research Thadiyankudisai, TN, Spices, Board, Govt. of India (1989-1990).
- Co-ordinator-UGC-SC/ST Remedial Coaching Centre, Bharathiar University (2009-2011).
- Convener SC/ST Welfare Cell, Bharathiar University, Coimbatore-641 046.
- Warden at PG. Hostel, and MBA Hostel, Bharathiar University.
- Selection Committee member for teaching and non-teaching staff of Bharathiar University, Periyar University, Tamil Nadu, India (2012-2013).
- Grievance Committee Member for Non-teaching Staff of Bharathiar University, Coimbatore-641 046, India.
- Additional Director, BU-CLS, (BHARATHIAR UNIVERSITY-CENTRE FOR LIFE SCIENCES), DRDO (Defence Research and Development Organisations) National Centre, Ministry of Defence, Government of India, Bharathiar University, Coimbatore-641 046, India.
- Co-ordinator, Post-graduate in Zoology (Distance Mode), Bharathiar University, Coimbatore-641 046, India (from July 2013-till date).
- Chairperson for Central Valuation for the year 2013-2014 under School of Distance Education, Bharathiar University, Coimbatore – 641 046, India.
- Member-Academic Council - PSR Krishnammal College, Coimbatore, India.

Editorial Member:

Frontiers| Physiology Editorial Office

Journal Manager: Adriana Timperi EPFL – Innovation Park, building I
1015 Lausanne, Switzerland | T 41(0)21 510 17 23 www.frontiersin.org |

twitter.com/Frontiers In

Societal Contribution:

» Community Social Work and Field for the Control of Mosquito Vector and Forecasting with: Tamil Nadu Public Health and Preventive Medicine, Coimbatore-641 018, India.

» Public Health Division, Corporation of Coimbatore, Coimbatore-641 001, India. Special Panchayat, Vadavalli, Coimbatore-641 041, India.

Contributions to Society:

Tsunami Rehabilitation - Biopesticide Spray Operations for Disease Vector Control-2004-2005 at Cuddalore, Nagapattinam, Velankanni, and Pondicherry, India. Tribal Mosquito Control and Biopesticide for Malaria Vector control for defence personnel at Tezpur, Assam.

Contributions to the School Children:

❖ Mosquito Awareness programme for the Primary School Children at the Thondamuthur Union Elementary School, Kalveerampalayam, Coimbatore-641 046, India, on January 2, 2003.

❖ Mosquito Awareness programme for Higher Secondary School Children, at the Chavara Vidya Bhawan, Coimbatore - 641 046, on February 28, 2004.

❖ Speaker - World Environment Day - Pollinator Plant Interactions at Indian Forest Academy, Forest College campus, R S Puram, Coimbatore, India, on 06- 06-2016.

❖ Mosquito Awareness Programme for High School Children, Sri Ragavendra Vidyalaya matic Hr. Sec. School, SRV Campus, Laxmi

Nagar, Coimbtore-641 046, India.

- Inaugurated the Science Exhibition at the Chavara Vidya Bhawan, Coimbatore-641 046 on December 5, 2009 and delivered the Awareness Impact of Global warming on Plants and Animals.
- Chief Guests for Republic Day Celebration (2010) at the Bharatiya Vidya Bhavan Matriculation School. Ajjanur, Coimbatore - 641 007, India.
- Chief Guests for the Annual Sports Day function at the Sri Ragavendra Vidyalaya matic Hr. Sec. School, SRV Campus, Laxmi Nagar, Coimbtore-641 046, India and delivered talk on the Science and Sports.
- Chief Guests to inaugurate Natural Club and deliver lead talk on biodiversity conservation of animals on November, 13, 2010 at S.B.O.A School, Coimbatore, India.
- Chief Guest to deliver a lead lecture on Urban structures and mosquito nuisance at Nachimuthu Polytechnic at Pollachi on December 1, 2010.
- Keynote Address at the International Conference on Biodiversity and Biotechnology organized by Periyar Maniammai University and Bharathidasan University, Tiruchirappalli, Tamil Nadu, India from 25th February 2016 to 27th February 2016.
- Key Note Address entitled "Biological diversity of butterflies in Western Ghats, Southern India at the 2nd International Conference on Environment and Ecology in Department of Environmental

Sciences, Bharathiar University, Coimbatore District, Tamil Nadu, India - on 7th March 2016.

- Keynote Address at "Recent Trends in Biological Research" in One Day National Seminar at C. Abdul Hakeem College (Autonomous), Melvisharam, Vellore District on 08th March 2016.
- Presidential Address at the International Women's Day Celebration in Academic Council Hall, Thiruvalluvar University, Serkkadu, Vellore on 09th March 2016.
- Chief Guest address and distributed the prizes for National Science Day Celebration - 2016 organized by Tamil Nadu Science and Technology Centre, Chennai and District Science Centre, Vellore on 11th March 2016.
- Delivered the Special Address entitled "Mosquitoes' Nuisance and Their Control" organized by Thanthai Periyar Government Institute of Technology, Vellore on 16th March 2016.
- Delivered the Annual Day Address by Chief Guest for Annual Day Celebration - 2016 at the College Auditorium, Joseph Arts and Science College, Thirunavalur-607 204, Villupuram District on 24th March 2016.
- Presidential Address at the National Service Scheme (NSS), Special Mega Camp "Not Me But You" in University Auditorium, Thiruvalluvar University, Sekkadu, Vellore on 28th March 2016.
- Chief Guest address and Yoga Certificate Distribution in the World Community Service Centre, Aliyar, Pollachi, Coimbatore District, India from 09th April 2016 to 12th April 2016.

- Special Address at the 126th Birth Day Celebration of Dr. B.R. Ambedkar and Opening Dr. B.R. Ambedkar photos in Thiruvalluvar University Campus, Serkkadu, Vellore on 14th April 2016.
- Chief Guest at the "Vetri Nitchayam" organized by Daily Thanthi and VIT University at VIT University (Anna Hall), Vellore on 15th April 2016 for Higher Secondary Students.
- Thiruvalluvar University Annual Day Celebration in the Thiruvalluvar University Campus, Serkkadu, Vellore District, Tamil Nadu, India - on 20th April 2016.
- Chief Guest for Higher Studies Awareness Camp for Higher Secondary Students organized by the Thiruvalluvar University and K.M.G College of Arts and Science in Thiruvalluvar University Campus, Serkkadu, Vellore District, Tamil Nadu, India - on 02nd May 2016.
- Chief Guest for Higher Studies Awareness Camp for Higher Secondary Students organized by Shanmuga Industries Arts & Science College, Thiruvannamalai on 03rd May 2016.
- Chief Guest for Higher Studies Awareness Camp for Higher Secondary Students organized by Theivanai Ammal College for Women (Autonomous), Chennai-Trichy Trunk Road, Villupuram-605 401, Villupuram District, Tamil Nadu, India - on 05th May 2016.
- World Environmental Day Celebration in the Thiruvalluvar University Campus, Serkkadu, Vellore District, Tamil Nadu, India - on 03rd June 2016.
- Special Address for World Environmental Day organized by Coimbatore Agro Forestry Farmer Producer Company Limited and Tamil Nadu Forest Academy (TNFA), Coimbatore on 05.06.2016.

Hon'ble Vice-Chancellor Convocation Addresses:

- Arcot Sri Mahaalakshmi Women's College Arcot-Arni Main Road, Villapakkam Post- 632521, Vellore District, Tamil Nadu India - on 15th February 2016.
- Sri Lakshmi College of Arts and Science, Bangaram Village, Thottiyam Post, Kallakurichi Taluk, Villpuram District, Tamil Nadu, India - on 10th March 2016.
- S.S.S. College of Arts, Science and Management, (Co-Ed.), No.15, Bye-Pass Road, Arcot - 632 503, Vellore District, Tamil Nadu, India - on 12th March 2016.
- Sri Bharathi Women Arts and Science College, Arni-Vellore Main Road, Kunnathur, Arni- 632 314, Thiruvannamalai District, India - on 13th March 2016.
- D.K.M. College for Women (Autonomous), Sainathapuram, Vellore-632 001, Vellore District, Tamil Nadu, India - on 16th March 2016.
- Swami Vivekananda Arts and Science College, Lakshmipuram, Gingee Main Road, Villupuram- 605 601, Villupuram District, Tamil Nadu, India - on 18th March 2016.
- Sri Akilandeswari Women's College, Thindivanam Higheway, Vandavasi-604 408, Thiruvannamalai District, Tamil Nadu, India - on 19th March 2016.
- Joseph Arts & Science College, Thirunavalur-607 204. Villupuram District, Tamil Nadu, India - on 24th March 2016.

- Sri Vinayaga College of Arts & Science, Virudhachalam Main Road, Ulundurpet-606 107, Villupuram District, Tamil Nadu, India - on 24th March 2016.
- Auxilium College (Autonomous) Gandhinagar, Vellore-632 006 - on 29th March 2016.
- C. Abdul Hakeem College (Autonomous), Hakeem Nagar, Melvisharam-632 509, Vellore District, Tamil Nadu, India - on 02nd April 2016.
- Muthurangam Government Arts College (Autonomous), Vellore-632 002, Vellore District, Tamil Nadu, India - on 06th April 2016.
- Vallalar Arts and Science College, Vadalur, Cuddalore-607 303, Cuddalore District, Tamil Nadu, India - on 17th April 2016.
- Arignar Anna Government Arts College for Women, Walajapet-632 513, Vellore District Tamil Nadu India - on 19th April 2016.
- Arignar Anna Government Arts College, Cheyyar-604 407, Thiruvannamalai District, Tamil Nadu, India - on 24th April 2016.
- Theivanai Ammal College for Women (Autonomous), Chennai-Trichy Trunk Road, Villupuram-605 401, Villupuram District, Tamil Nadu, India - on 04th May 2016.
- Dr. M.G.R Chockalingam Arts College, Arcot Road, ACS Nagar, Arni – 632 317, India – on 4th August 2016-08-2016.
- RAAK Arts and Science College (Co-Ed), Perambai Road, Villianur Post, Vanur Taluk, Villupuram Dist ., India, 605 110. - On 7th August 2016.
- TamilNadu Public Service Commission Group- I Selection Committee Panel member for an Oral Test in the GROUP –I service Interview Post., Chennai, India.

- Thiruvalluvar Arts and Science College, Kurinjipadi, Cuddalore Dist., India – 607 302, India
- Loyola Collge, Olaipadi Village, Vettavalam, Tiruvannamalai Dist-606 754, India - On 14 th August 2016.
- Participated UGC 7th Pay Review Committee Regional Workshop at University of Madras, Chennai, India.
- St. Joseph's College of Arts and Science (Autonomous), Cuddalore – 606 001, India - on 2nd July 2016.
- Shree Raghvendra Arts & Science College, Keezhamoongiladi, Chidambaram – 608 102, India - on 2nd July 2016.
- Thiuvalluvar University Constituent College of Arts and Science, Arakkonam –631 051 – on 29th July 2016.
- Bharathi Women's Arts and Science College, Thatchur, Kallakurichi – 606 202. Villupuram District, TN, India. – 30th July 2016.
- Dr. M.G.R Chockalingam Arts College, Arcot Road, ACS Nagar, Arni, India, – 632 317 – on 4th August 2016
- RAAK Arts and Science College (Co-Ed), Perambai Road, Villianur Post, Vanur Taluk, Villupuram Dist – 605 110, India - on 7th August 2016.
- Thiruvalluvar Arts and Science College, Kurinjipadi, Cuddalore Dist, India – 607 302 – on 13th August 2016.
- Loyola Collge, Olaipadi Village, Vettavalam, Tiruvannamalai Dist-606 754, India -on 14 th August 2016.
- Annual Convocation at Voorhees College Vellore –632 001- on 14th October 2016, India.
- Annual Convovation at Thiruvalluvar University College of Arts & Science (University College) Thennangur - 604 408, India.

- 12th ANNUAL CONVOCATION of Thiruvalluvar University, 26th December, 2016.

ACADEMIC CONTRIBUTIONS CONFERENCE/SEMINARS:

- Chief Guest for 19th The Neyveli book fair - 2016 organised under the aegis of **Neyveli Lignite Corporation Limited "Navratna"** - Government of India Enterprise, Neyveli, India - On 3rd July 2016.
- Chief Guest on Internal Quality Assurance Cell (IQAC) Valedictory Function of the Faculty Development Program on Student Centric Pedagogy organised by **Vels University, Pallavaram, Chennai, India -** on 5th July 2016.
- Chief Guest for Village Adoption Program at **Joseph Arts & Science College, Thirunavalur, Villupuram Dist - 607 204, India -** on 19th July 2016.
- Chief Guest of Dr. Ambedkar 125th Birth Day & Book Release Celebration (IMPERUM VIZHA-2016) Organised by **Annamalai University, Chidambaram, India -** On 19th July 2016.
- **Chief Guest for the Inauguration of Zoology Association and Sepecial Lecturer on "Global Warming" at Department of Zoology, Bharathiar University, Coimbatore, India on 3rd August 2016.**
- **TamilNadu Public Service Commission Group-I Selection Committee Panel member for an Oral Test in the GROUP-I service Interview Post -** from 09th August 2016 to 12th August 2016.

- Chief Guest on International Conference on "Advances in Algal Biotechnology" (ICAAB-2016) organised by **Vellore institute of Technology (VIT), India -** On 12th August 2016.
- Interview Panel Member for Dr. Ambedkar Chair - Posting of faculty Members at **Annamalai University, Chidambaram, India -** 13th August 2016.
- Participated UGC 7th Pay Review Committee Regional Workshop at **University of Madras, Chennai, India -** on 19.08.2016.
- Chief Guest at the Convocation function at Thiruvalluvar University Constituent College of Arts and Science at Thiruvennainallur - 607 203, India - on 14th August 2016.
- Releasing of O.P.R Memorial Special book and distributions of prizes and awards on the Occasion of 46th O.P.R Memorial Day function at Vallalar Arts and Science College, Vadalur - 607 303 India, on 25th August 2016.
- **MoU with NIM CARE, India with Thiruvalluvar University**, Vellore on 23rd August 2016, to develop Skill Development Centre at the University Campus.
- Official preliminary visit to Sri Narayani Peedam Sripuram for Making **MoU between Thiruvalluvar University and Narayani Peedam, Vellore, India** - On 1st September 2016.
- Chief Guest on Teachers Day Celebration - 2016 held on 2nd September 2016 at the Thiruvalluvar University, Vellore., India.
- Inaugural Address & Releasing of Souvenir for **International Symposium on Conservation of Aquatic & Terrestrial Biodiversity (ISCATBIO-2016)** on 28th - 30th September 2016 organized by Department of Zoology, Thiruvalluvar University Vellore, India.

- Inaugural address at the **One Day Seminar on "MATLAB AND ITS APPLICATIONS"** Organized by Department of Mathematics, Thiruvalluvar University, Vellore, India.
- Chief Guest of **One Day Seminar on International Animals Day Celebration - 2016** organized by Science Departments, Thiruvalluvar University Vellore., India and delivered lecture on Animal Plant Interactions and Biodiversity.
- Special Addressed on **"World Animal Day 2016 celebration"** at Thiruvalluvar University Campus, Organized by Department of Zoology, Thiruvalluvar University, India on 4th October 2016.
- Chief Guest Address on **TUNE Research Methodology Workshop** on 13th October 2016 at Thiruvalluvar University, Vellore, India.
- Chief Guest Address on a Seminar organized by Department of Tamil and Sponsored by KMG educational Trust, at Thiruvalluvar University, India on 24th October, 2016.
- Chief Guest of **Seminar on Sports and Health** at Thiruvalluvar University on 7th November 2016.
- Chief Guest in the Annual Day at Sri Sakthi Amma School, Vellore India on 18th November 2016.
- Chief Guest Address on **INSPIRE INTERNSHIP SCIENCE CAMP-2016** Sponsored by Department of Science and Technology (DST) Government of India and organized by Department of Bio-Chemistry PSG College of Arts and Science, Coimbatore, India on 26th November 2016.
- Participated and presented papers at the prestigious **104th Indian Science Congress (Science & Technology for National Development)** held at **S.V University Tirupati** during 3-7thJanuary 2017.

- Valedictory Address at the **National English conference (NSCBTCL-2017)** conducted by Department of English, Thiruvalluvar University, Vellore on 6th January 2017.
- Presidential Address at the **Thiruvalluvar day celebrations 2017** at Thiruvalluvar University Campus on 19th January 2017.
- Convocation Address at Sreemath Sivagnana Balaya Swamigal Tamil, Arts and Science College, Mailam, Villupuram Dist – 604 304, on 24th January 2017.
- Chief guest and delivered the Inaugural Address on **National Conference on "Development of Literature with the Societal Changes"** organized by Joseph Arts and Science College, Thirunavalur, Villupuram District – 607 204, India, on 28th January 2017.
- Delivered the Inaugural Address on UGC and NAAC Sponsored **National Conference on " Journey Towards Excellence"** Organized **by Internal Quality Assurance Cell(IQAC) and United Board, Hong Kong** on 9thFebruary 2017, held at Auxilium College (Autonomous), Vellore – 632 006.
- Delivered the Inaugural Address on **International Conference on "Recent Advances in Bio-Resource Technology (RABT-2017)"** Organized by Department of Bio-Technology, Thiruvalluvar University, Vellore – 632 115, on 15th February 2017.
- Convocation Address at Arcot Sri Mahalakshmi Women's College, Arani Main Road, Villapakkam, Vellore District, Tamil Nadu – 632 521, on 16th February 2017.
- Delivered the Inaugural Address on **"Higher Education: Yesterday, Today and Tomorrow"** on 20th February 2017, Organized by

Department of Economics, Thiruvalluvar University, Vellore – 632 115 & DKM College for Women (Autonomous) Vellore – 632 001.

- Participated as Vice-Chairman for the **32nd Meeting of the Tamilnadu Science and Technology Centre Society,** on 23rd February 2017 at B.M. Birla Planetarium, **Periyar Science and Technology Centre Campus**, Gandhimandapam Road, Chennai – 600 025.
- Convocation Address at Don Bosco College, Guezou Nagar, Yelagiri Hills, Vellore District, Tamil Nadu – 635 853, on 27th February 2017.
- Delivered the Presidential Address on **State Level Workshop** on **"Applied Mathematics and Computation(AMC)-2017"** on 28th February 2017, Organized by Department of Mathematics, Thiruvalluvar University, Vellore – 632 115.
- Chief Patrons and delivered the Inaugural Address on a **National Conference on Recent Trends in Computer Science, Applications & Engineering (NCRTCAE-17)** Organized by Department of Computer Science and Applications, Thiruvalluvar University Constituent College of Arts and Science Arakkonam. On 3rd March 2017.
- Chief guest and delivered the Inaugural Address on **Workshop on Plant Conservation Biotechnology and International Women's Day 2017** celebration on 8th March 2017 organized by Thiruvalluvar University, Vellore – 632115. TamilNadu, India.
- Chief guest and delivered the Inaugural Address on **Workshop on Plant Conservation Biotechnology** on 9th on March 2017 organized by School of Life Sciences Department of Botany Bharathiar University, Coimbatore – 46.

- Convocation Address at Shree Raghavendra Arts and Science College, Chidambaram – 608 102, TamilNadu, India. on 10th March 2017.
- Convocation Address at Sri Narayani School & College of Nursing, Sripuram, Vellore – 632 055. TamilNadu, India. on 11th March 2017.
- Delivered the Presidential Address on **"A Special Lecture on Leadership"** on 14th March 2017, Organized by Department of English, Thiruvalluvar University, Vellore – 632 115.
- Chief guest and delivered the Inaugural Address on **National Service Scheme (NSS) Special Camp** organized by Marudhar Kesari Jain College for Women, Vaniyambadi – 635 752, TamilNadu, India. On 22nd March 2017.
- Chief guest and delivered the Inaugural Address on Annual Day of Guru Nanak College (Autonomous) Chennai on 24th March 2017 organized by Guru Nanak College (Autonomous) Chennai, TamilNadu, India.
- Convocation Address at Shanmuga Industries Arts and Science College, Tiruvannamalai – 606 603, TamilNadu, India on 27th March 2017.
- Convocation Address at Government Arts College, Tiruvannamalai, TamilNadu, India. on 01st April 2017.
- Convocation Address at Periyar Arts College, Cuddalore – 607 001, TamilNadu, India. on 01st April 2017.
- Chief guest and delivered the Inaugural Address on Annual Day of C. Kandaswamy Naidu College for Women, Cuddalore – 607 001, TamilNadu, India. on 01st April 2017.

- Convocation Address at Arignar Anna Government. Arts College, Villupuram – 605 602, TamilNadu, India. on 03rd April 2017.
- Chief Patrons and delivered the Inaugural Address on **One Day International Conference** on **"Causes, and Consequences of Demonetization in India – A Critical Assessment"** Organized by Post Graduate Extension Centre, Thiruvalluvar University, Villupuram – 605 602. On 3rd April 2017.
- **Director of Distance Educatrion Interview and Selection Committee Member** - at **Annamalai University**, Chidambaram – 608 002, TamilNadu, India. On 06th April 2017.
- Special Address at **127th Birth Day Celebration of Dr. B.R. Ambedkar and Tamil New year Celebration** in Thiruvalluvar University Campus, Serkkadu, Vellore on 14th April 2017
- Participated in Translations of Higher Education professional books in Tamil Language Expertise meeting held at TamilNadu Text Book and Educational Services Corporation (TNTB&ESC) 86, E.V.K Sampath Maaligai, DPI Campus, Nungambakkam, Chennai – 600 006, on 18th April 2017.
- Delivered the Inaugural Address on **One Month Intensive Theatre Workshop** in Collaboration with **National School of Drama Bangaluru Centre** and Organized by Department of Tamil, Thiruvalluvar University, Vellore – 632 115, on 25th April 2017.
- Participated **D.Sc./D.Litt. Applications Scrutinizing Expertise Committee Meeting** held on 28th April 2017 in the IQAC Hall, **Periyar University**, Palkalai Nagar, Selem, TamilNadu – 636 011.

- Participated Hon'ble Chief Minister of TamilNadu inauguration function on Thiruvalluvar University Constituent College of Arts and Science, Thiruvennainallur, Thiruvannamalai District – 607 203, on 11th May 2017.

- Delivered Valedictory Address during the Valedictory Function of One Month Intensive Theatre Workshop in collaboration with National School of Drama, Bangaluru Centre, held at Thiruvalluvar University Campus on 23rd May 2017.

- Delivered convocation Address at K.M.G College of Arts & Science, Gudiyattam, Vellore Dist – 602, TamilNadu, India, on 11th June 2017.

- Attended Hon'ble Governor's of TamilNadu official function of Unveiling of Thiruvalluvar Statue at Raj Bhavan, Chennai on 18th June 2017.

- Delivered Presidential Address during the International yoga day celebration 2017 organized by National Service Scheme (NSS)Programme Co-ordinator, Thiruvalluvar University, Vellore, on 21st June 2017.

- Delivered convocation Address at Aries Arts and Science College for Women, Kaunkuzhi, Vadalur, Cuddalore – 607 303, on 24th June 2017.

- Delivered convocation Address along with Dr. Kiran Bedi, IPS(Retd) Lieutenant Governor of Puducherry at Joseph Arts and Science College & Kamala College of Education, Tirunavalur, Villupuram District – 607 204, on 8th July 2017.

- Attended National Convention on Digital Initiatives for Higher Education from 8th -10th July, 2017 at Vigyan Bhavan, New Delhi, organized by the Ministry of Human Resource Development(MHRD) New Delhi, India.

- Attended Hon'ble Governor's of TamilNadu official function of Unveiling of Avvaiyar Statue at Raj Bhavan, Chennai on 14th July 2017.

- Delivered Valedictory Address & Distribution of Certificates during the DST Inspire Science Camp 2017 organized by Government Arts College, (PG & Research Department of Chemistry), Tiruvannamlai, TamilNadu – 606 603, on 24th July 2017.

- Delivered the Presidential Address entitled " Advanced Materials for electrochemical and photoelectrochemical applications" organized by Department of Chemistry, Thiruvalluvar University, Vellore on 01st September 2017.

- Chief Guests and delivered Convocation Address for 3rd Convocation Ceremony at the BWDA Arts & Science College, Mailam post, Tindivanam (TK), Villupuram Dist – 604304. On 6th September 2017.

- Chief Guest Inaugural address on 10th National Academy of Biological Sciences National Conference entitled "Recent Trends in Life Science Research, Practices and Application for Sustainable Development" organized by Departments of Botany & Zoology, Bharathiar University, Coimbatore on 07th September 2017.

- Delivered the Presidential Address at the NSS Programme Officers Meeting & Tree Planting Programme organized by NSS Department, Thiruvalluvar University, Vellore on 08th September 2017.

- Delivered the Special Address at the Induction Programme for First Year B.Ed., Students (2017 – 2019)" Organized by Directorate of Distance Education, Alagappa University, Karaikudi, on 17th September 2017.

- Chief Patron at International Workshop on "Awareness for Conservation and Sustainable use of Biodiversity in India" (IWACASBI-17) organized by Department of Zoology, Thiruvalluvar University, Vellore from 18th to 19th September 2017.

- Chief Patron at International Conference on "Competing in a New Era of

Globalisation – Challenges and Prospects" organized by Department of Economics, Thiruvalluvar University, Vellore from 21st to 22nd September 2017.

- Chief Patron & Chief guest address at International Seminar on "Recent Trends in Computer Applications (ISRTCA – 2017)" organized by Department of Computer Science & Computer Applications, Thiruvalluvar University College of Arts and Science, Tittagudi from 21st to 22nd September 2017.

- Chief Guest Address at One Day National Seminar on "Issues, Challenges and Opportunities in Electronic Resources Management for Students (CICOERMS – 2017)" organized by Department of Library, Thiruvalluvar University College of Arts and Science, Thiruvennainallur on 23rd September 2017.

- Chief Guest on book release function entitled **"Fws;topapy; mUl;nry;tu;"** held at vallalar Arts & Science college, Neyveli, Vadalur – 607 303. On 2nd October 2017.

- Chief Patron at National Symposium on "Recent Scenario of Environmental Pollution in India – (NSRSEPI – 2017)" organized by Department of Zoology, Thiruvalluvar University, Vellore on 5th October 2017.

- Delivered the Valedictory Address on "National Conference on Advancements of Applied Zoology for Sustainable Development – Current Trends and Future Perspectives" Organized by Post Graduate & Research Department of Zoology, Pachaiyappa's College, Chennai on 6th October 2017.

- Delivered the Presidential Address on "Inauguration of Free Coaching Classes for Various Competitive Examinations" Organized by Placement Cell, Thiruvalluvar University, District Employment office Vellore and Model career centre (Ministry of labour and Employment Government of India) on 26th October 2017.

- Delivered the Presidential Address on "Inauguration of English Literary

Association & Release of Poetry Book entitled "Urangatha Vinmeemgal" Organized by Department of English, Thiruvalluvar University, Vellore on 26th October 2017.

- Delivered Welcome Address on "Rashtriya Ekta Diwas – National Unity Day" organized by NSS Department, Thiruvalluvar University, Vellore on 08th September 2017.

June 2018:

Conference, Seminars and Other Programs

- Attended State Eligibility Test (SET) Exam Steering Committee meeting held at Mother Teresa University, Research Extension Centre Chennai on 1st June 2018.

- Attend the meeting on skill development program held at Anna University, Chennai on 13th & 21st June 2018 under the guidance of Hon'ble Chancellor.

- Presidential Address on "One Day International Seminar on Entrepreneurship Success Stories – National and International Perspectives" conducted by Thiruvalluvar University, Vellore on 28th June 2018.

July 2018

- Attend the conference on skill development program held at Anna University, Chennai on 10th July 2018 under the chairmanship of Ho'ble Chancellor.

- Chief Guest and Delivered the 7th Convocation for Student held at Vallalar Arts and Science College, Vadalur on 23rd July 2018.

- Inaugurated Thiruvalluvar University Basketball Court and given the presidential Address for 12th General Body sports Meeting held at Thiruvalluvar University on 24 July 2018.

- Presidential Address on "One Day International Seminar on Tackling the Growing Threat of Dengue" Conducted by Department of Biotechnology, Thiruvalluvar University, Vellore on 24th July 2018.

- To participated at the National Conference for "Vice-Chancellors"conducted by UGC, New Delhi on 26th July to 28th July 2018.

August 2018

- Chief Guest and Inaugural Address on NSS Program Organized by Kamban College of Arts and Science, Thiruvannamalai on 1st August 2018. Delivered a special lecture on "Dengue Control".

- Chief Guest and special Address given to the Guinness of World Records conducted by the St. Paul's & St. Joseph's School and Rotary Club, Peranabet on 2nd August 2018.
- Special address given on "NSS and YRC Opening function" by D.L.R Arts and Science College, Villapakkam, Arcot on 24th August 2018.

PERSONAL DETAILS:

Designation	:	Vice Chancellor
Father's Name	:	E. KADARKARAI
Address for Communication	:	Vice Chancellor Thiruvalluvar University Serkkadu, Vellore - 632 115, Vellore District, Tamil Nadu, India Phone (Office): +91 416 -2274733, +91 416 - 2274944 Fax: +91 416-2274922
E-mail	:	vctvutn@gmail.com
House Address	:	3, Nehru Street, Ramasamy Nagar

Bharathiar University Post,

Coimbatore-641 046, India

Date of birth : 15.03.1961

Nationality : INDIAN

Marital status : Married with two children.

Knowledge of Languages : Tamil (mother tongue) - Excellent
English - Good
Japanese - Fair

EDUCATIONAL QUALIFICATIONS:

S.No.	Degree	University	Year of Passing	Subjects	Class/Guide Obtained
1.	B.Sc.	Madras, India	1982	Zoology	1st Class
2.	M.Sc.	Madras, India	1984	Zoology(Optional Entomology)	'A' Grade
3.	M.Phil.	Madras, India.	1987	Endocrinology	II Class
4.	P.G. Dip.	Madras, India.	1987	Field Oriented Entomology	Commended
5.	Ph.D.	Madras, India.	1990	Zoology (Entomology)	Commended
6.	I- Post-doc. Research	NISES, Tsukuba(Japan)	1996	Entomology	Commended
7.	II- Post-doc. Research	Uni. of Oxford (UK).	2000 (1 year)	Entomology	Commended
8.	III-Post-doc. Research	Uni. Basel (Swiss)	2001	Entomology	Commended
9.	IV-Post-doc. Research	Taiwan(NTU)	2004	Entomology	Commended

10.	V- Post-doc. Research	Sun-yat sen University, China	2005	Entomology	Commended
11.	VI- Post-doc. Research	IOZ, CAS, China	2007	Entomology	Commended
12.	VII- Post-doc. Research	NTOU, Taiwan	2010	Mosquito/Copepod	Commended
13.	VIII-Post - doc. Research	Texas A&M AgriLife Res. USA	2010	Entomology	Commended
14.	IX-Post - Doc. Research	USDA-ARS-CMAVE 1600 SW 23rd Drive Gainesville, FL 32608 USA	2011 (Three months)	Entomology (Entomopathogen)	Commended
15.	D.Sc.	Bharathiar University	2011	Entomology (Biopesticides)	Commended
16.	X-Post Doc.	National Taiwan Ocean University. Taiwan	2012	Entomology	Commended
17.	IX-Post Doc.	Shiga Prefectural University, Japan	2015	Ecosystem studies	Commended

ISES : National Institute Sericultural and Entomological Sciences
NTU : National Taiwan University
CAS : Chinese Academy of Sciences
NTOU : National Taiwan Ocean University

M.Phil. Thesis : *Dolichos biflorus* and *Amaranthus spinosus*: Biological effects on testis and epididymis of rats.

P.G. Diploma in Field Oriented Entomology

Studies on the host plant interactions on the population dynamics and eco-physiology of Gesonula punctifrons Stal.

Ph.D. Thesis:

Studies on the insect-host plant interactions with special reference to water hyacinth grasshopper, *Gesonula punctifrons* Stal. (Acrididae: Orthoptera: Insecta).

(Supervisor: Professor Dr. T.N. Ananthakrishnan, Entomology Research Institute, Loyola College, Chennai-600 034, India)

D.Sc. Thesis:

Studies on the Botanicals and Microbial Insects for the control of mosquito vectors and Insects

Research Specialisations:

- **Biological Mosquito Vector Management Programme**
- **Biological Control of Vector Borne Diseases**
- **Chemical Ecology of Insect Plant Interactions**
- **Nanoinsecticides – Plants, Microbes and Marine Products**
- **Biodiversity of Butterflies**
- **Stem Cell Biology**

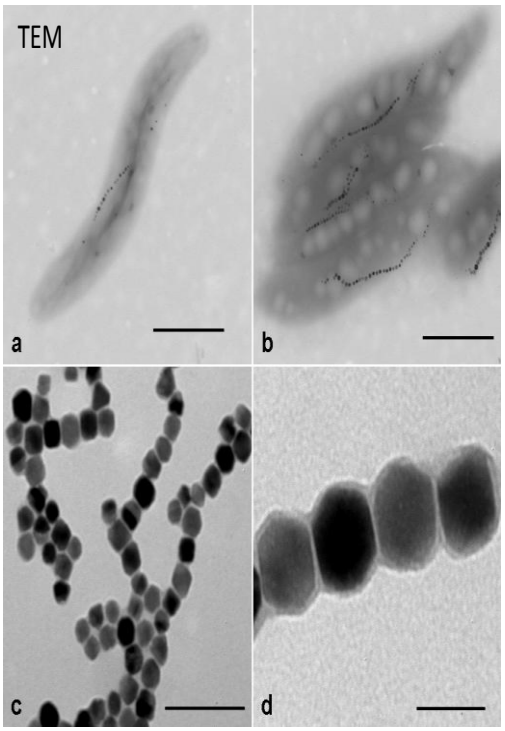
200 words write-up:

Professor K. MURUGAN M.Sc., M. Phil., Dip. Ent., Ph.D., D.Sc., has done cutting-edge research on the synergy among plant-borne compounds with microbial insecticides and arthropod predators for the successful control of insect pests of medical and agricultural importance. His latest contributions to

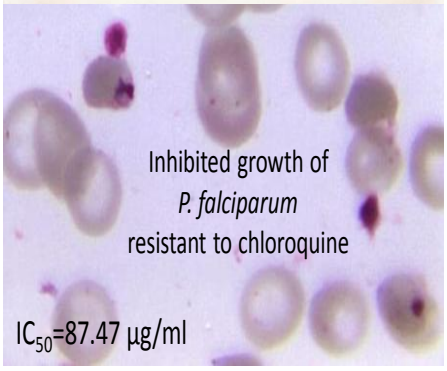
the field deal with metal nanoparticles with excellent mosquitocidal properties biosynthesized using cheap extracts of plant and fungi as reducing and stabilizing agents. The nanoparticles showed excellent larvicidal and pupicidal toxicity against mosquito vectors, both at laboratory as well as field. Furthermore, the green synthesized nanomaterials showed a great potential as antidengue, antimalarial, antibacterial, anticancer, antidiabetic, antimineralogenic and antioxidant tools, and it has been by his publications. Notably, sub-lethal doses of these nanoparticles showed no detrimental effect on predation rates of mosquito natural enemies at aquatic system. Bioformulations have developed by nominees have already been used by Defence Personnel at North Eastern India and Tsunami affected people of Tamil Nadu and Pondicherry, India during 2004-2005. His current research on stem biology with stem cell-based therapy holds an extraordinary prospective in improving the lives of people who suffer from visual and orthodontic disorders and it carries a promising future in producing new biological elements for medical treatment.

(Magnetic nanoparticles are highly toxic to chloroquine-resistant *Plasmodium falciparum,* dengue virus (DEN-2) and their mosquito vectors. Parasitol Res (2016). doi:10.1007/s00436-016-5310-0 Parasitol Res (2016). doi:10.1007/s00436-016-5310-0)

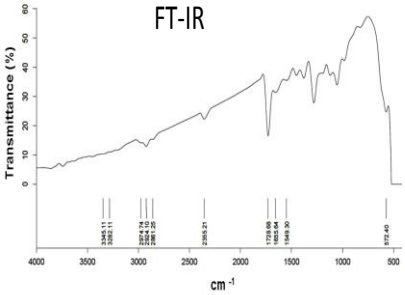
Magnetic nanoparticles extracted and purified from *M. gryphiswaldense* strain MSR-1

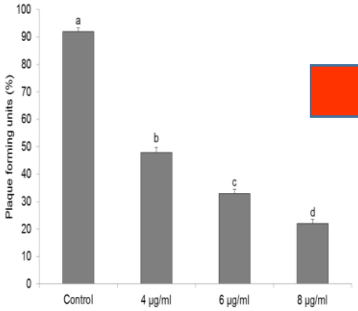


Toxic to malaria and dengue mosquito vectors *An. stephensi and Ae. aegypti*

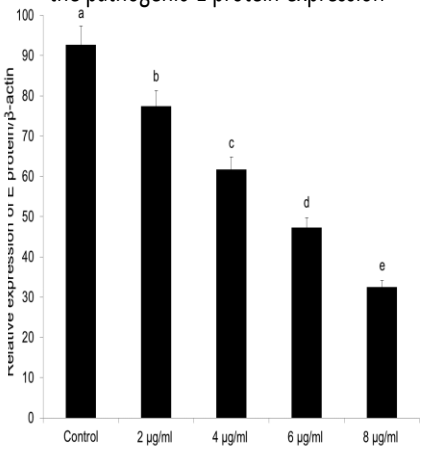


FT-IR

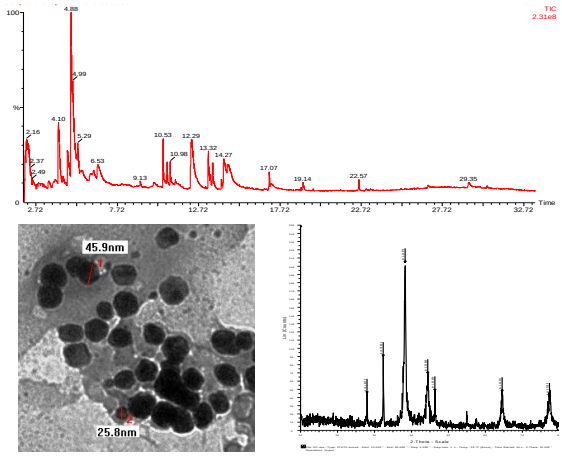




Block dengue DEN-2 replication inhibiting the pathogenic E protein expression



Do *Chenopodium ambrosioides*-synthesized Ag nanoparticles impact *Oryzias melastigma* predation against *Aedes albopictus* larvae?



Ag nanocrystals

Oryzias melastigma

Aedes albopictus

Do *Chenopodium ambrosioides*-Synthesized Silver Nanoparticles Impact *Oryzias melastigma* Predation Against *Aedes albopictus* Larvae? Subramaniam, J., Murugan, K., Jebanesan, A. et al. J Clust Sci (2016). doi:10.1007/s10876-016-1113-9

ACTIVITIES

Skills: Parasite Ecology, Molecular Entomology, Vector Biology and Control, Vector-Borne Diseases, Insect Vectors, Parasite Biology, Parasitic Diseases, Zoonotic Diseases, Tropical Diseases, Medical Entomology, Veterinary Entomology, Mosquito Ecology.

POSITION HELD EARLIER (IN CHRONOLOGICAL ORDER)

S.No.	Period	Place of Employment	Designation /Employer
1.	01-07-2013 to till date	Dept. of Zoology and Bharathiar University, Coimbatore, India.	Professor and Head/The Registrar, Bharathiar University, Coimbatore, India.
2.	14-01-2008 to 30-06-2013	Dept. of Zoology Bharathiar University, Coimbatore, India.	Professor, The Registrar, Bharathiar University, Coimbatore, India.
3.	12.08.1999 to 13-01-2008	Dept. of Zoology Bharathiar University, Coimbatore, India.	Reader, The Registrar, Bharathiar University, Coimbatore, India. **Responsibilities:** Teaching and Research
4.	13.08.1994 to 12-08-1999	Dept. of Zoology Bharathiar University, Coimbatore, India.	Senior Lecturer, The Registrar, Bharathiar University, Coimbatore, India. **Responsibilities:** Teaching and Research/extension
5.	25.10.1990 to 12.08.1994	Dept. of Zoology Bharathiar University, Coimbatore, India.	Lecturer, The Registrar, Bharathiar University, Coimbatore, India. **Responsibilities:** Teaching and Research
6.	12.08.1989 to 23.10.1990	Indian Cardamom Research Institute, Thadiankudisai Spices Board, Govt. of India.	Scientist (Entomology) cum Scientist-in-charge The Secretary, Spices Board, Govt. of India, Cochin, India **Responsibilities:** Integrated management of Cardamom insect pests, Biological control, Pest Surveillance and forecasting and Arrangement of Meeting for farmers and Extension
7.	01.05.1986 to 12.08.1989	Entomology Res. Institute, Loyola College, Chennai, (University of Madras), India.	Senior Research Fellow, The Director, Entomology Research Institute, Loyola College, Madras, India. Responsibilities: Research

(c) Involvement with formulation of academic programmes:

S. No.	Nomenclature of Innovative Academic Programmes formulated	Date of approval by Academic Council	Year of Introduction
1.	M.Sc. Human Genetics and Molecular Biology, Bharathiar University, Coimbatore-641046, Tamil Nadu, India.	01.02.2014	01.06.2014
2.	B.Com. (Banking & Insurance) Auxilium College (Autonomous), Thiruvalluvar University, Vellore. Tamil Nadu.	23.06.2017	2017
3.	i)PGDHRM (PG Diploma in Human Resource Mngt.), ii)PGDEM (PG Diploma in Import and Export Mngt.), iii)PGDLM (PG Diploma in Logistic Mngt.), iv) PGDMLT (PG Diploma in Medical Lab Technicians). Sacred Heart College (Autonomous) Tirupattur, Thiruvalluvar University Tamil Nadu.	23.06.2017	2017
4.	B.B.A. (Computer Application) St.Joseph's College Arts & Science (Autonomous), Cuddalore, Tamilnadu.	23.06.2017	2017
5.	B.S.W. (Bachelor of Social Work), Voorhees College, Vellore. Thiruvalluvar University Tamilnadu.	23.06.2017	2017
6.	B.Sc. Physical Education, Loyola College, Thiruvalluvar University	2018	2018
7.	M.A. Political Science, M.Sc., Statistics, Periyar Arts College, Cudallore, Tamil Nadu.		
8.	M.B.A.(HRM), Marudhar Kesari Jain College for Women, Vaniyambadi, Tamil Nadu.	2018	2019

(d) Important MoUs formulated for academic collaborations:

S. No.	MoUs formulated	Name of Agencies/Departments involved	Year of MoU
1.	Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	National Taiwan Ocean University, Taiwan	2016
2.	Digital Library (for Thiruvalluvar University, Vellore)	Thiruvalluvar University and Sri Sakthi Amma, Educational Trust, Vellore, Tamilnadu	26.04.2016
3.	Job Oriented Training Programme (for Thiruvalluvar University, Vellore,	Thiruvalluvar University and NIM Care Chennai, to Establish TUNE Skill Development and Life Science Research	31.08.2016

	Tamil Nadu)	Institute.	
4.	Research and Training (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and National Taiwan Ocean University, Keelung, Taiwan, R.O.C.,	01.12.2016
5.	Research and Training (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and Hong Kong Baptist University, Hong Kong	25.01.2017
6.	Biodiversity (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and National Biodiversity Authority – NBA, Government of India, Chennai	28.07.2017
7.	Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Hong Kong Baptist University, Hong Kong	25.01.2017
8.	Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and Vellore institute of Technology (VIT),Vellore	29.01.2018
9.	Research and Training (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and Christian Medical College, Vellore. India.	12.02.2018
10.	Database Management Training Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and National Securities Depository Limited (NSDL) Database Management Limited, Mumbai	05.03.2018
11.	Research, Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and Sri Narayani Hospital and Research Centre (SNHRC), Vellore	15.03.2018
12.	Research, Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and Alagappa University, Karaikudi.	23.05.2018
13.	Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and Mother Teresa Women's University, Kodaikanal.	23.05.2018
14.	Research, Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and Audacious Dreams Foundation, Vellore.	06.06.2018
15.	Students and Faculties' Exchange Programme and Technical Collaboration (for Thiruvalluvar	Thiruvalluvar University and Samaya Holding, Riyadh, Saudi Arabia & New Mountain innovations, Old lyme, United	28.06.2018

	University, Vellore, Tamil Nadu)	States of America.	
16.	Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and Rotary Club of Katpadi, Vellore.	25.07.2018
17.	Research, Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and AKT Creations, Singapore.	21.08.2018
18.	Research, Students and Faculties' Exchange Programme (for Thiruvalluvar University, Vellore, Tamil Nadu)	Thiruvalluvar University and AIMST University, Malaysia.	29.08.2018

Vice Chancellor Prof. Dr.K.Murugan receiving Visiting Professorship from Prof. Yang Sun, Vice President, Shanxi University, China

11. Scholarly achievements:

A. Contribution to Journals and Books:

	Details
Books authored	Author of 3 books and 17 book chapters
Editor in Chief	Nil

Editorships:

Editorial Adviser, International Journal of Pure and Applied Zoology, Allied Academies 40 United Kingdom,

Senior Editor, Progress in Bioscience and Bioengineering, Inno Publisher LLC 8 The Green,
Delaware, USA.

Senior Editor, International Journal for Life Science and Educational Research.(IJLSER) Coimbatore, India.

Editor, International of Electrical Engineering Application Research (IJEEAR) Bangalore – 560 037, India.

Peer reviewer for:

Current Science, Ind. J. of Med. Res., Ind. J. of Expl. Biology, Entomol. Soc., of America, Insect Science, Blackwell, Ecol. Indicator, Elsevier., Journal of Invertebrate Pathology. Acta Tropica, Asian pacific journal of tropical medicine, Aquaculture, Carbohydrate polymers, Chemosphere, Environmental pollution, Journal of infection and public health, Materials and design, Materials chemistry and physics, International Journal of Hydrogen Energy, PLOS ONE.

Member of the International Advisory Board :

Board of Studies members and external examiner Ph.D. student's thesis evaluation at Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan

Others (Specify):

Frontiers| Physiology Editorial Office Journal **Manager:** Adriana Timperi EPFL – Innovation Park, Lausanne, Switzerland.

LIST OF PUBLICATIONS:

1. Sanjayan K P and Murugan K. (1987) Nutritional influence on the growth and reproduction in two species of acridids (Orthoptera:Insecta). *Proc.Indian Acad. Sci.* (Anim. Sci.) 96(3): 229-237.
2. Sanjayan K P Murugan K and Prasanth Jacob J. (1988) Biochemical changes during embryogenesis in *Atractomorpha crenulata* (Fab.) (Orthoptera: Insecta*). Proc. Indian Acad.* Sci. (Anim. Sci.) 97(2): 133-139
3. Murugan K and Prasanth Jacob J. (1988) Haemolymph protein profiles during gonadotrophic period of *Gesonula punctifrons* Stal. (Orthoptera: Insecta). *Proc. Indian Acad.Sci.* (Anim. Sci.) 97(6): 423-427.
4. Selvan M Sethamizh and Murugan K. (1988) Bioenergetics and reproduction of *Atractomorpha crenulata* F. (Orthoptera: Insecta). *Proc.Indian Acad. Sci.* (Anim. Sci.) 97(6): 505-517.
5. Prasanth Jacob J and Murugan K. (1990) Impact of natural and artifical diets on feeding and reproduction of *Oxya nitidula* and *Eyprepocnemis alacris* (Orthoptera: Insecta). *Entomon*, 15: 220-226.
6. Sampathraj R Murugan K and Vanithakumari G. (1992) Effect of Dolichos biflorus seeds and *Amaranthus spinosus* roots on testis of rats*. Indian Zoologist*, 15: 1991, 187-190.
7. Murugan K and Ancy George. (1992) Feeding and Nutritional Influence on Growth and Reproducticon of *Daphnis nerii* (Linn.) (Lepidoptera: Sphingidae) *J. Insect Physiol.* (Great Britain) 38: 961-967.
8. Murugan K and Babu R.(1992) Protein and nucleic acid changes during embryogenesis of *Atractomorpha crenulata* Fab.*Indian Zoologist*, 16: 135-138.

9. Vani C and Murugan K. (1992) Protein changes in the reproductive tissues of the female *Poeciloceruspictus* Fab. Before and after mating. *Indian Zoologist*, 16: 31-34.
10. Murugan K Vanithakumari G and Sampathraj R. (1993) Biochemical changes in epididymis following treatment with combined extracts of *Amaranthus spinous* roots and *Dolichos biflorus* seeds. *Ancient Science of Life*, Vol No. XII 1&2, 154-159.
11. Murugan K Vanithakumari G and Sampathraj R. (1993) Effects of combined extracts of *Dolichos biflorus* seeds and *Amaranthus spinosus* roots on the accessory sex organs of male rats. *Ancient Science of Life*, Vol. No. XII 1&2, 160-164.
12. Vani C and Murugan K. (1993) Quantitative soluble protein profiles of testis and male accessory glands of *Poecilocerus pictus* before and after mating. Indian National Academy Science Letter, 16(2): 71-72.
13. Murugan K Jeyabalan D Sivaprakasam N and Senthil Vadivu R. (1994) Influence of certain botanicals on the biochemical changes in Mulberry Silkworm *Bombyx mori* (L) (Lepidoptera: Bombycidae) Proc. Second Natn. Semin. Seric. Vol. –I, pp 32-47.
14. Murugan K Shiju Jacob Thangam M and Jeyabalan D. (1994) Enzymatic profiles of Mulberry Silkworm *Bombyx mori* L. (Lepidoptera: Bombycidae) infected by Bacterial disease (Flacherie). Proc.Second Natn. Semin. Seric. Vol-I, pp 88-97.
15. Udaiyan K Murugan K and Kariabettan. (1994) Studies on the ammonia volatalisation of neem coated urea from tea soil. *Bull. Pure & App. Sci.*, Vol.13, (B) (2): 99-102.

16. Udaiyan K Murugan K Viswanathan SR and Murugesan NV (1995) Stability of azadirachtin in Nimbecidine stored in different agroclimatic regions. *Pestology*, Vol. XIX (5):33-42.

17. Murugan K Senthil Kumar N Babu R and Senthil Nathan S (1995) Antifeedant and Ovipositional deterrent effects of exudates of *Azadirachta indica* A. Juss. Neem Newsl. 12(4): 43-44.

18. Murugan K and Jeyabalan D. (1995) Antifeedant and ovipositional deterrent effects of neem root extract (*Azadirachta indica* A. Juss) Neem Newsl., 12(4): 45-46.

19. Senthil Kumar N Murugan K and Udaiyan K. (1995) Role of entomofauna in coniferous litter decomposition. *Zoo's Print*, Vol.X (10): 8.

20. Murugan K , Jahanmohini P and Babu R. (1996) Effect of neem kernel extract and neem oil on Nutritive and Reproductive Physiology of *Heliothis armigera* Hub.In: Neem and Environment, edited by R.P. Singh, M.S. Chari, A.K. Raheja and W. Kravs. Published by Oxford and IBH Co., Pvt. Ltd. Delhi. Vol. 1. 321-334.

21. Jeyabalan D and Murugan K. (1996) Impact of variation in foliar constituents of *Mangifera indica* on consumption and digestion efficiency of *Latoia lepida*. *Indian J. Exp. Biol.*, 34: 472-474.

22. Murugan K Babu R Jeyabalan D Senthil Kumar N and Sivaramakrishnan S.(1996) Antipupational effect of neem oil and neem seed kernel extract against mosquito larvae of *Anopheles stephensi* (Liston) *J.Ento. Research*, 20(2): 137-139.

23. Babu R Senthil Kumar N Jeyabalan D Sivaramakrishnan S and Murugan K. (1996) Effect of host plant secondary chemicals on food utilization of *Daphnis nerii* (Linn.) (Lepidoptera: Sphingidae). Uttar Pradesh *Journal of Zoology*, 16(3): 133-136.

24. Murugan K and Senthil Kumar N. (1996) Host plant biochemical diversity, feeding, growth and reproduction of Teak Defoliator, *Hyblaea puera* (Cramer) (Lepidoptera: Hyblaedidae). Journal of Forestry, 19, (3): 253-257.

25. Babu R Murugan K and Vanithakumari G. (1996) Interference of azadirachtin on the food utilization efficiency and midgut enzymatic profiles of *Helicoverpa armigera* Hub. (Insecta: Lepidoptera: Noctuidae) *Indian J. Environ. Toxicol.* 6(2): 81-84.

26. Sivaramakrishnan S Murugan K Jeyabalan D Senthil Kumar N and Kavitha R. (1996). The effect of mixture of neem, Eucalyptus and Pongamia oil on the mortality and biochemical profiles of ticks, *Boophilus microplus* (Canestrini) (Acari: Ixodidae). *Indian J. Environ. Toxicol.* 6 (2):85-86.

27. Senthil Nathan S Murugan K Senthil Kumar S and Jeyabalan D. (1996) Succession of insect fauna during decomposition of litter in a Teak Forest. *Zoo's Print*, p.14.

28. Jeyabalan D Senthil Kumar N and Murugan K. (1996) Dietary influence on the feeding and excretion of *Latoia lepida* Cramer (Lepidoptera: Limacodidae). *Insect Environment*, 2(2): 46.

29. Ramesh M and Murugan K. (1996) Biochemical changes in Paddy plants infested with *Nilaparvata lugens. Insect Environment*, 2(3): 46.

30. Sivaramakrishnan S Murugan K Jeyabalan D Senthil Kumar N and Kavitha R. (1996) The effect of mixture of neem, Eucalyptus and Pongamia oil on

the mortality and biochemical profiles of ticks, *Boophilus microplus* (Canestrini) (Acari: Ixodidae). *Indian J. Environ. Toxicol.* 6(2): 85-86.

31. Babu R, Murugan K, Rajulu G S (1997) Impact of gossypol on feeding and reproduction of *Helicoverpa armigera* Hub. in relation on control strategy (Lepidoptera: Noctuidae), p.173-182. In Sinha M P, Mehrotra P N Recent advances in ecobiological research. New Delhi, A.P.H. Publishing Corporation, 630p.
32. Babu R Murugan K and Kavitha R. (1997) Impact of azadirachtin on the quantitative protein and lipid profiles during gonadotrophic period of *Atractomorpha crenulata* Fab.(Orthoptera: Acrididae). *Indian J. Exp. Biol.*, 35: 998-1001 (CSIR, New Delhi).
33. Jeyabalan D and Murugan K. (1997) Effect of neem limonoids on the feeding and reproduction of *Helicoverpa armigera* (Hubner). *Entomon.* 22(1): 15-20.
34. Senthil Kumar N Jeyabalan D and Murugan K. (1997) Antifeeding and growth inhibiting effect of neem leaf exudate on *Spodoptera litura. Indian J. Ent.*, 59 (2): 151-154.
35. Murugan K. Chitra P S Senthil Kumar N Senthil Nathan Jeyabalan D and Sivaramakrishnan S. (1997) Influence of age correlated host plant biochemical diversity and feeding preferences and survival of butterfly, *Danaus chrysippus* L. (Lepidoptera: Danaidae). *Flora and Fauna*, 3(2) 99-102.
36. Murugan K. (1997) Neem as potential natural insecticides to control of teak pests, *Hyblaea puera* and *Eutectona machaeralis.* Proceedings of the World Forestry Congress, Turkey, Oct. 13-22, Vol. No.1 (T5)

37. Murugan K Senthil Kumar N Jeyabalan D Raja N S and Sivaramakrishnan S. (1997) Evaluation of certain tropical plant extracts *Spodoptera litura. J. Insect Sci.*, 2: 103-111.

38. N. Senthil Kumar and K Murugan (1998) Potential enhancement of Nuclear Polyhedrosis Virus with triterpene Azadirachtin and its effects on the mortality, food utilization and development of *Helicoverpa armigera* Hubner (Lepidoptera: Noctuidae). *Tropical Agricultural Research* 10: 324-333.

39. Murugan K Jeyabalan D Senthil Kumar N Senthil Nathan S and Sivaprakasam N. (1998) Growth promoting effects of plant products on silkworm - A biotechnological approach. *J. Sci. Indus. Res.*, 57: 740-745. (CSIR, New Delhi).

40. Murugan K Sivaramakrishnan S Senthil Kumar N Jeyabalan D and Senthil Nathan S. (1998) Synergistic interaction of botanicals and biocides (Nuclear polyhedrosis virus) on pest control. *J. Sci. & Indus. Res.*, 57: 732-739. (CSIR, New Delhi).

41. Babu R and Murugan K. (1997) Interference of Azadirachtin on the haemolymph qualitative protein and lipid profiles of *Atractomorpha crenulata* Fabricius (Orthoptera: Acrididae). *Annals of Entomology* 15(2): 5-10.

42. Murugan K and Babu R. (1998) Impact of certain plant products and *Bacillus thuringiensis* Berliner sub-species kurstaki on the growth feeding physiology of *Helicoverpa armigera* Hubner (Insecta: Lepidoptera: Noctuidae). *J.Sci. & Indus. Res.*, 57: 757-765.

43. Murugan K Jeyabalan D Senthil Kumar N Babu R Sivaramakrishnan S and Senthil Nathan S. (1998) Antifeedant and growth inhibitory properties of

neem limonoids against the Cotton Bollworm, *Helicoverpa armigera* (Hubner). *Insect Science and its application*, 18 (2): 157-162.

44. Murugan K Jeyabalan D Senthil Kumar N Senthil Nathan and Sivaramakrishnan S. (1999) Synergistic effect of botanicals and microbial pesticides on *Spodoptera litura* Fab. In: "Biopesticides in pest management" edited by S. Ignacimuthu and lok Sen, Phoenix publishing House Pvt. Ltd., New Delhi, India, pp 232-242. ISBN: 8174840273978817484027 1.

45. Murugan K Jeyabalan D Senthil Kumar N Babu R Sivaramakrishnan S and Senthil Nathan S. (1998) Neem (*Azadirachta indica* A. Juss) latex as a potential deterrent agent for *Musca domestica* L. (Diptera: Muscidae). *Neem Newsl.* 15 (1): 3-5.

46. Jeyabalan D Murugan K Rajas N S and Senthil Kumar N. (1998) Effects azadirachtin and neem seed kernel extracts of survival, growth and development of teak defoliator, *Hyblaea puera* (Cramer) (Lepidoptera: Hyblaeidae). *Journal of Applied Zoological Researcher*, Vol. 9 (1&2) 65-6

47. Murugan K and Jeyabalan D. (1998) Neem enhance the activity of microbial pesticides, *Insect Environment*, 4(10): 3-4.

48. Senthil Kumar N and Murugan K. (1998) NPV and Neem to fight cotton pest. The Hindu-Science and Technology (Agriculture), dated 12.11.98 page 27.

49. Babu R and Murugan K. (1998) Interactive effect of neem seed kernel and neem gum extracts on the control of Culex *quinquefasciatus* Say. *Neem Newsl.* 15(2): 9-11.

50. Babu R and Murugan K. (1999) Effect of azadirachtin on food utilisation, digestive enzyme and the midgut ultrastructure of *Atractomorpha crenulata* Fab. *Indian J. Environ. Toxicol.* 9 (1) 42-46.

51. Murugan K and Jeyabalan D. (1999) Effect of certain plant extracts against the mosquito, *Anopheles stephensi* Liston. *Current Scienc*e, Vol. 76, No.5., March, 631-633

52. Senthil Kumar, N and Murugan K. (1999) Neem - An effective bio-pesticide. Nanwani, (Feb. 1-15), 13.

53. Murugan K Senthil Kumar V Jeyabalan D Babu R Senthil Nathan S and Sivaramakrishnan S. (1999) Interactive effect of neem products on the control of pulse beetle, *Callosobruchus maculates* Fab. *Neem Newsl.* 15(4): 41-44.

54. Murugan K and Babu R. (1999) Combined activity of neem and Chinaberry extracts on feeding and oviposition of *Spodoptera litura* Fab. *Neem Newsl.*, 15(3): 25-28

55. Senthil Nathan S Murugan K Senthil Kumar N Jeyabalan D and Muthuraman S. (1999) Pollination Ecology of Honey bee *Apis florea* - A conservation approach, Zoo's Print, Vol. XIV (4) April, 3-4.

56. Murugan K Babu R and Sivaramakrishnan S. (1999) Toxic effect of plants on Spodoptera litura Fab. *Insect Environment*, 4 (4), 135.

57. Senthil Kumar N and Murugan K. (1999) Impact of NPV and Azadirachtin on the digestive enzyme activities and midgut biochemical composition of *Helicoverpa armigera*. *Tropical Agricultural Research*, Vol.11, 393-407.

58. Murugan K Jeyabalan D and Senthil Nathan S. (1999) Control of rice leaf folder by bacterial toxins. The Hindu, (National magazine) (Science and Technology - Agriculture). December 16, page 28.

59. Senthil Kumar V Murugan K and Sivaramakrishnan S. (1999) Screening of plant products on the control of *Callosobruchus maculate* Fab. In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, Medicine, and Veterinary Science. (Eds.) K. Murugan, Bharathiar University, Coimbatore India, pp. 7-8.

60. Amuthadevi P Murugan K and Jeyabalan D. (1999) Evaluation of certain plant oils on the control of Dengue vector, *Aedes aegypti.* In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, *Medicine, and Veterinary Science*. (Eds.) K. Murugan, Bharathiar University, Coimbatore India, pp. 16-17.

61. Murugan K Perumal G Senthil Kumar V Sivaramakrishnan S and Gunasekaran P. (1999) Efficacy of plant products on the control of forest pests. In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, *Medicine, and Veterinary Science.* (Eds.) K.Murugan, Bharathiar University, Coimbatore India, pp.18-22.

62. Kalaivani K Murugan K Senthil Nathan S and Senthil Kumar N. (1999) Dietary influences on the parasitization of *Trichogramma chilonis* (ISHII) In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, *Medicine, and Veterinary Science.* (Eds.) K. Murugan, Bharathiar University, Coimbatore India, pp. 43-44.

63. Murugan K Umamaheswari S Poonkodi N Dhakshayani S and Swamiappan S. (1999) Parasitisation efficiency of *Chelonus blackburni* (CAM) on the boll worm complex. In: Proceeding of the National In: Symposium on Biological Control of Insects in Agriculture, Forestry,

Medicine, and Veterinary Science. (Eds.) K. Murugan, Bharathiar University, Coimbatore India, pp. 45-46.

64. Senthil Nathan S Murugan K Jeyabalan D and Kalaivani K. (1999) Effect of azadirachtin and *Bacillus thuringiensis* (Berliner) on the behavioural and physiological response of *Cnaphlocrosis medinalis* Guenee (Rice leaf folder). In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, *Medicine and Veterinary Science*. (Eds.) K. Murugan, Bharathiar University, Coimbatore India, pp. 56-59.

65. Babu R and Murugan K. (1999) Anti-Reproductive effect of azadirachtin on insects. In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, *Medicine, and Veterinary Science*. (Eds.) K. Murugan, Bharathiar University, Coimbatore India, pp 76-79.

66. Ramarethinam S Murugan K Udaiyan K and Sivaramakrishnan S. (1999) Effect of Nimbisol and some herbal products on the control of ticks and mites of sheep In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, *Medicine, and Veterinary Science*. (Eds.). K. Murugan, Bharathiar University, Coimbatore, India, pp 82-85.

67. Senthil Kumar N Murugan K and Jeyabalan D. (1999) Effect of azadirachtin, nuclear Polyhedrosis virus and *Bacillus thuringiensis* on the reproductive performance of *Helicoverpa armigera* Hub. In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, *Medicine, and Veterinary Science*. (Eds.). K. Murugan, Bharathiar University, Coimbatore, India, pp 86-87.

68. Murugan K Sivaramakrishnan S Poonkodi N Dhakshayani S Umamaheswari S and Thiyagarajan P. (1999) Neem enhance the activity of entomopathogenic nematode (Eds.). K. Murugan In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, *Medicine, and Veterinary Science*. (Eds.). K. Murugan. Bharathiar University, Coimbatore. India, pp.100-101.

69. Sivaramakrishnan S Murugan K and Ramarethinam S. (1999) Impact of NPV and Neem oil on the feeding, Biochemical changes and digestive enzymatic profiles of *Spodoptera litura.* (Eds.). K. Murugan In: Proceeding of the National Symposium on Biological Control of Insects in Agriculture, Forestry, *Medicine, and Veterinary Science* (Eds.). K. Murugan, Bharathiar University, Coimbatore India, pp. 106-107.

70. Murugan K Jeyabalan and Senthil Kumar N. (2000) Managing cotton Bollworm menace. The Hindu, (National magazine) (Science and Technology - Agriculture) January 27, page 28.

71. Murugan K Senthil Kumar N Jeyabalan D and Swamiappan M. (2000) Influence of *Helicoverpa armigera* (Hubner) diet on its Parasitoid, *Compoletis chlorideae* Uchida. *Insect Science and its Application* 20 (1): 23-31.

72. Murugan K Jeyabalan D Senthil Kumar N Sivaramakrishnan S and Senthil Nathan S. (2000) Influence of host plant on growth and reproduction of *Aphis nerii* and feeding and prey utilisation of its predator *Menochilus sexmaculatus. Indian J. Exp. Biol.* Vol.38, pp. 598-603.

73. Babu R. Murugan K and Mohan. (2000) Larvicidal effect of resinous exudate from the tender leaves of *Azadirachta indica. Neem Newsl.*17 (1).

74. Kavitha R Murugan K Babu R and Sivaramakrishnan S. (2000) Synergistic effect of extracts from *Azadirachta indica, Pongamia pinnata* and *Vitex negundo* on feeding, survival and fecundity of *Helicoverpa armigera* Hub. (Lepidoptera: Noctuidae). Indian *J. Environ. Toxicol.* 10 (1): 40-44.

75. Sivaramakrishnan S Murugan K Poonkodi M Thiyagarajan P and Umamaheswari S. (2001) Additive and synergistic interaction between entomopathogenic nematodes and *Bacillus thuringiensis* for root grub control. In Microbials in Insect Pest Management (Ed. Ignacimuthu S. and Sen A.) Oxford & IBH Publishing Co., New Delhi, pp.165-170. ISBN:8120414969.

76. Vahitha R Venkatachalam M R Murugan K and Jebanesan A. (2002) Larvicidal efficacy of *Pavonia zeylanica* L. *Acacia ferruginea* D.C. against *Culex quinquefasciatus* Say.*Bioresource Tech.*, 82, 203-204. **(Impact Factor: 4.494)**

77. Babu R. Murugan K. Sivaramakrishnan and Thiagarajan P. (2000) Efficacy of neem and entomopathogenic-fungi, *Beauveria bassiana* on *Spodoptera litura* Fab. *Entomon.* 26: 58-61.

78. Murugan K Thangamathi P and Jeyabalan D. (2002) Interactive effect of Botanicals and *Bacillus thuringiensis Subsp.* Israelensis on *Culex quinquefasciatus* Say*. J.Sci. & Indus. Res*., Vol.61, December, pp 1068-1076.

79. Sivaramakrishnan S and Murugan K. (2002) Impact of neem products on the persistence and virulence of entomopathogenic nematodes on *Galleria mellonella.* Proceedings of the World Neem Conference, pp.17-18.

80. Sivaramakrishnan S and Murugan K. (2003) Deterrent effect of neem seed kernel extract and neem oil on the feeding biological parameters of *Amsacta albistriga* (Wlk.) *J. Ent. Res.*, 27: 1-6

81. Murugan K Vahitha R Baruah I and Das S C. (2003) Integration of botanicals and microbial pesticides for the control of filarial vector, *Culex quinquefasciatus.* Annals of Medical Entomology 12 (1&2); 11-23

82. Sivaramakrishnan S. and Murugan K. (2002) Impact of neem products on the persistence and virulence of entomopathogenic nematodes on *Galleria mellonella.* Proceedings of the World Neem Conference, pp.17-18.

83. Sivaramakrishnan S and Murugan K. (2003) Deterrent effect of neem seed kernel extract and neem oil on the feeding biological parameters of *Amsacta albistriga* (Wlk.) *J. Ent. Res.*, 27: 1-6

84. Murugan K., Vahitha R., Baruah I. and Das S.C. (2003) Integration of botanicals and microbial pesticides for the control of filarial vector, *Culex quinquefasciatus Annals of Medical Entomology.* 12 (1 &2):11-23

85. Shigeo Kondo, Tenji Konishi and Murugan K (2004) Larvicidal effects of neem (*Azadirachta indica*) seed Kernel extracts against *Paratanytarsus grimmii* (Diptera: Chironomidae) and *Aedes albopictus* (Diptera: Culicidae). *Med. Entomol. Zool*, 55 (3): 247-250.

86. Murugan K. (2004) Chemical and botanical pesticides on their impact on the biological control agents on insects. In: Proceedings of the 3rd European Conference on pesticides and related organic micropollutants in the environment. Edited by T.A. Albanis, University of Ioannina, Greece, pp. 445-450.

87. Senthil Nathan, S., Chung, P.*G.,* Murugan, K., (2004). Effect of botanicals and bacterial toxin on the gut enzyme of *Cnaphalaocrocis medinalis. Phytoparasitica* 32,433-443. **(Impact Factor: 0.901)**

88. Murugan K, Vanithakumari G. and Vasugi C. (2004) Influence of host plant tannin on the efficacy of neem and *Bacillus thuringensis* for the

control of teak defoliator, *Hyblaea purea cramer* (Lepidoptera: Hyblaeidae) World Forestry Congress, Quebec City, Canada 1025-B3

89. Kamalakannan, S. Thangamani A. and Murugan, K. (2005) Efficacy of two drugs – Supradyn and Spirulina solution on growth efficiency, silk productivity and reproductive efficiency of mulberry silkworm, *Bombyx mori L.* J. ENT. Res., 29 (4): 281-287

90. Senthil Nathan, S., Kalaivani, K., Murugan, K., Chung, .G. (2005) The toxicity and physiological effect of neem limonoids on *Cnaphalocrocis medinalis* (Guenée) the rice leaffolder. *Pesticide Biochemistry and Physiology* 81, 113-122. **(Impact Factor: 2.014)**

91. Senthil Nathan, S., Chung, P.G., Murugan, K., (2005) Effect of biopesticides applied separately or together on nutritional indices of the rice leaffolder *Cnaphalocrocis medinalis* (Guenée) (Lepidoptera: Pyralidae). *Phytoparasitica,* 33,187-195. **(Impact Factor: 0.901)**

92. Nathan SS, Kalaivani K, Murugan K. (2005) Effects of neem limonoids on the malaria vector, *Anopheles stephensi* Liston (Diptera: Culicidae). *Acta Tropica.* 2005 Oct; 96(1):47-55. **(Impact Factor: 2.519)**

93. Nathan SS, Kalaivani K, Murugan K. (2006) Effect of biopesticides on the lactate dehydrogenase (LDH) of the rice leaffolder, *Cnaphalocrocis medinalis* (Guenee) (Insecta: Lepidoptera: Pyralidae). *Ecotoxicol Environ Saf.* 2006 Sep;65(1):102-7. **(Impact Factor: 2.762)**

94. Nathan SS, Chung PG, Murugan K. (2006) Combined effect of biopesticides on the digestive enzymatic profiles of *Cnaphalocrocis medinalis* (Guenee) (the rice leaffolder) (Insecta: Lepidoptera: Pyralidae). *Ecotoxicol Environ Saf.* 64:382-389. **(Impact Factor: 2.762)**

95. Senthil Nathan, S., Kalaivani, K., Chung, K. Murugan, K., (2006) The toxicity and behavioural effects of neem limonoids on *Cnaphalocrocis medinalis* (Guenée) the rice leaffolder.*Chemosphere*, 62 (8), 1381-1387. **(Impact Factor: 3.340)**

96. Senthil Nathan, S., Chung, P.G., Murugan, K., (2006) Combined effect of biopesticides on the digestive enzymatic profiles of *Cnaphalocrocis medinalis* (Guenée) (Rice leaffolder) (Insecta: Lepidoptera: Pyralidae). *Ecotoxicology and Environmental Safety* 64 (3), 382-389. **(Impact Factor: 2.762)**

97. Senthil Nathan, S., Kalaivani, K., Mankin, R.W., Murugan, K., (2006) Effects of millet, wheat, rice, and sorghum diets on development of *Corcyra cephalonica* Stainton (Lepidoptera: Galleriidae) and its suitability as a host for *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae). *Environmental Entomology* 35 (3), 784-788. **(Impact Factor: 1.295)**

98. Senthil Nathan, S., Kalaivani, K., Chung, P.G., Murugan,K.,(2006) Effect of neem limonoids on lactate dehydrogenase (LDH) of the rice leaffolder, *Cnaphalocrocis medinalis* (Guenée) (Insecta:Lepidoptera:Pyralidae). *Chemosphere*. 62 (8), 1388-1393. **(Impact Factor: 3.340)**

99. Senthil Nathan, S., Kalaivani, K., Chung, P.G., Murugan, K., (2006) Effect of biopesticides on the lactate dehydrogenase (LDH) of the rice leaf folder, *Cnaphalocrocis medinalis* (Guenée) (Insecta: Lepidoptera: Pyralidae). *Ecotoxicology and Environmental Safety*, 65(1):102-7. **(Impact Factor: 2.762)**

100. Senthil Nathan, S., Kalaivani, S., Murugan, K., (2006) Behavioral responses and changes in biology of rice leaf folder following treatment with a combination of bacterial toxin and botanical pesticides. *Chemosphere*, 64(10):1650-8. **(Impact Factor: 3.340)**

101. Kadarkarai Murugan, (2006) "Tsunami Relief Work - Biopesticide Spray Operations - A Case Study" in "Geohazards", Farrokh Nadim, Rudolf Pöttler, Herbert Einstein, Herbert Klapperich, and Steven Kramer Eds, ECI Symposium Series, Volume P7.

102. Murugan K. (2006) Bio-diversity of Insects. *Current Science*, vol. 91, No. 12,25 1602-1603.

103. Murugan, K. Murugan P., and Noortheen A. (2007) Larvicidal and Repellent potential of *Albizzia amara* and *Ocimum basilicum* against dengue vector, Dengue vector, *Aedes aegypti* Liston (Insecta: Diptera: Culicidae). *Bioresource Technology*.98 (1):198-201.

104. Nachimuthu Senthil Kumar, Kadarkarai Murugan and Wenqing Zhang (2008) Additive interaction of *Helicoverpa armigera* Nucleopolyhedrovirus and Azadirachtin. Biocontrol (Springer - Netherlands) 53: 869-880. **(Impact Factor: 1.693)**

105. P. Thiyagarajan and K. Murugan (2007) Larvicidal, Pupicidal and Repellency effect of *Murraya koenigii* and *Bacillus thuringiensis* var, *isrealensis* against the Dengue Vector *Aedes aegypti.* Vector – Borne Diseases: Epidemiology and control. Editors: B.K.Tyagi Centre for Research in Medical Entomology (ICMR), India, pp 173-188.

106. Murugan K. (2008) Mosquitocidal and water purification potential from botanicals for groundwater sustainability, Proceedings of 36th IAH Congress, October, 2008 Toyama, Japan Integrating Groundwater Science

and Human Well-being. Pp 1974-1984. http://www.ini.co.jp/IAHproceedings/iah 2008 proceddings.

107. S. Kamala Kannan, K. Murugan, A. Naresh Kumar, N. Ramasubramanian and P.Mathiyazhagan (2008) Adulticidal effect of fungal pathogen, *Metarhizium anisopliae* on malarial vector *Anopheles stephensi* (Diptera: Culicidae). *African Journal of Biotechnology*, Vol. 7 (6), pp. 838-841.

108. C. Kuppusamy and K. Murugan (2008) Oviposition deterrent, ovicidal and gravid mortality effects of ethanolic extract of *Andrographis paniculata* Nees against the malarial vector *Anopheles stephensi* Liston (Diptera: Culicidae). *Entomological Research* 38, 119–125.

109. Kuppusamy C, Murugan K (2008) Synergistic Activity of *Andrographis paniculata* Nees Extracts Againstthe Larvae of the Malarial Vector *Anopheles stephensi* Liston (Diptera: Culicidae). *Journal of the Entomological Research Society*, Vol 10, No 2.

110. Kuppusamy C and Murugan K (2008) Mosquitocidal effect of Euphorbia *heterophylla* Linn. Against the Bacncroftian filariasis vector, *Culex quinquefasciatus* say (Diptera: Culicidae). *International Journal of Integrative Biology*, 4, No.1. 34-42.

111. Vineetha A and K. MURUGAN (2009) Larvicidal and smoke repellency effect of Toaddalia asiatica and Aegle marmelos against the dengue vector, Aedes aegypti (Insecta: Diptera: Culicidae). *Entomological Research*, 39:61-

112. KUPPUSAMY C and K. MURUGAN and N. Arul and Perpumal Yasodha (2009) Larvicidal and insect growth regulator effect of α-amyrin acetate from Catharanthus Roseus Linn against the malaria vector, *Anopeles stephensi* Liston (Diptera:Clucidae). *Entomological Research*, 39 , 78-83

113. MURUGAN K. and Vanithakumari G. (2009) Integratiohn of Botanical and Microbial Pesticides for the Sustainable Management of Insect – Pests. In:

Neem A Treatise. Editors. K.K. Singh, Suman Phogat, Alka Tomar and R.S. Dhilon; I.K. International Publising House Pvt. Ltd., New Delhi, India, pp 299-315, ISBN-10; 8189866001.

114. Mid TUDA , Li-Hsin WU, Yoichi TATEISHI, Chawalit NIYOMDHAM, Sawai BURANAPANICHPAN, Katsura MORIMOTO, Wen-Jer WU, Chiao-Ping WANG, Zong-Qi CHEN, Hong-Ye ZHU, Ying-Cui ZHANG, Kadarkarai MURUGAN , Liang-Yih CHOU , Clarence D. JOHNSON (2009). A novel host shift and invaded range of a seed predator, *Acanthoscelides macrophthalmus* (Coleoptera: Chrysomelidae: Bruchinae), of an invasive weed, Leucaena leucocephala. Entomological Science 12, 1–8 (Blackwell, International, Japan).

115. Kamalakannan.S, K. Murugan, P. Thiyagarajan, A. Nareshkumar and D. Abirami (2009) Larvicidal and Smoke Toxicity effect of *Tridax procumbens* against malarial vector, *Anopheles stephensi* (Diptera: Culicidae). *Asian Jr. of Microbiol. Biotech. Env. Sc.*, Vol. 11, No. (2): 293-297.

116. MURUGAN K. and S. Kamalakannan (2009) Mosquito Vector Management By Spraying Biopesticide At The Tsunami Affected Areas Of Tamil Nadu And Pondicherry, 2004-2005 - A CASE STUDY. In: Disaster Management, Editors: K. K. Singh, Lotfi ALEYA, Vinod Singh, Mahadevi Singh, APH Publishing Corporation, New Delhi, India.

117. Murugan. K, Naresh kumar. A, Aarthi. N, Kovendan. K and Vincent. S (2009) Sustainable Mosquito Managment and Water Purification Using Botanicals in different aquatic Ecosystem. Proceedings from Wuhan University, Wuhan University Press, China, 283-296

118. Murugan, K. (2009) Biodiversity Conservation of Butterflies in the Western Ghats, Southern India. Proceedings of the International Conference on Mountains of the World, Ecology, Conservation and Sustainbale

Development, Sultan Qaboos University, Feburay, 10-14, 2008. Ed. Reginald Victor and Michael of D. Robinson pp. 74-77.

119. A.Vineetha and K. Murugan. (2009) Combined Effect of *Toddalia Asiatica* and Aegle Marmelos for the Control of Dengue Vector, Aedes aegypti. *Indian J. Environ. Toxicol.* (in press)

120. N. Aarthi and K. Murugan (2010) Larvicidal and repllent acitivity of *Vetiveria zizanioides* L., *Ociumum basilicum* vector, *Anopheles stephensi* Liston (Insects: Diptera: Culicidae). *Journal of Biopesticides*, 33 (5) 137-140.

121. Murugan K. (2010) "Bioefficacy of plant derivatives on the repellency, damage assessment and progeny production of the cowpea weevil, *Callosobruchus maculatus* (F) (Coleoptera: Bruchidae)" to 10th IWCSPP Proceedings, Julius-Kühn-Archiv, Nr. 425 (2010).

122. Kaliyaperumal Karunamoorthi & Kandan Ilango & Kadarkarai Murugan (2010) Laboratory evaluation of traditionally used plant-based insect repellent against the malaria vector, *Anopheles arabiensis. Patton Parasitol Res.* DOI 10.1007/s00436-010-1797-y (Diptera: Culicidae) 106, Number 5, 1217-1223 **(Impact factor: 2.098)**.

123. Shobana K. Murugan K. and Nareshkumar A. (2010) Influence of host plant on feeding, growth and reproduction of *Papilio polytus* (Common mormon). *Journal of Insect Physiology*, 56(9):1065-70. **(Impact Factor: 2.275)**

124. Abirami. D, Murugan. K, Vasugi. C, Shobana. K and Prasanna Kumar. K (2010) Effect of Temperature on the development time and survivial of Malarial Vector, *Anopheles stephensi* (Diptera: Culicidae) Implications of Climatic Change on Mosquito-borne Diseases and its Impact of Public Health. Excel India Publishers by New Delhi: p 88-99.

125. Naresh Kumar A, Murugan. K and Shobana. K (2010) Impact of Climate Change on the malarial Vector *Anopheles stephensi* and Control Using *Cassia alata* Implications of Climatic Change on Mosquito-borne Diseases and its Impact of Public Health. Excel India Publishers by New Delhi: p 106-111.

126. Kuppusamy C. and K.Murugan (2010) In vitro antimalarial activity of traditionally used Western Ghats plants from India and their interactions with chloroquine against chloroquine resistant *Plasmodium falciparum*. *Parasitology Research*107-1351-1364 **(Impact factor: 2.098).**

127. C. Kuppusamy and K.Murugan (2010) Toxic and synergistic action of amysin acetate with *Bacillus thuringiensis* Berliner against the diamond black moth, *Plutella xylostella* Linn. (Lepidoptera: plutellidae). *Journal of Entomological Research soecity* 12 (3) 15: 27 **(Impact Factor: 0.347)**

128. C. Kuppusamy and K.Murugan (2010) Effect of *Antrographis paniculata* nees on growth, development and reproduction of malarial vector *Anopheles stephensi* Liston (Diptera: Culicidae). *Tropical Biomedicine* 27(3):509-516.

129. Vimala B. Murugan K. Deecaraman M. Karpagam K. Vijayalakshmi and Sujatha M. (2010) Toxic effects of neem extract and spinosad and endosulfan on the growth Aphids and its predator The Bioscan. 5 (3) 383-386.

130. Siva Kamalakannan, Kadarkarai Murugan and Donald R. Barnard http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B8JJN-51K997F2&_user=10&_coverDate=11%2F29%2F2010&_rdoc=1&_fmt=high&_orig=search&_origin=search&_sort=d&_docanchor=&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=31c956e5

59fec9768eef5f8845d23d4a&searchtype=a - af0010 (2010) Toxicity of *Acalypha indica* (Euphorbiaceae) and *Achyranthes aspera* leaf extracts (Amaranthaceae) to A*edes aegypti* (Diptera: Culicidae) Journal of Asia Pacific Entomology, doi:10.1016/j.aspen.2010.11.011.

131. Yago, M. Yoshitake, H. Ohshima, Y. Katsuyama, R. Sivaramakrishnan, S. Murugan, K. & M. Ito (2010) Butterflies collected from Coimbatore, Tamil Nadu, South India with comment on its conservation significance, Butterflies. 54, 45-53.
132. Siva Kamalakannan, Pari Madhiyazhagan, Abirami Dhandapani, Kadarkarai Murugan, Donald Barnard (2010) *Pedilanthus tithymaloides* (Euphorbiaceae) Leaf Extract Phytochemicals: Toxicity to the Filariasis Vector, *Culex quinquefasciatus (*Diptera: Culicidae) Vector-Borne and Zoonotic Diseases. October 2010, 10(8): 817-820. **(Impact Factor: 2.228)**
133. Murugan K. (2010) http://www.google.com/url?q=http://www.ias.ac.in/currsci/25jun2010/1556.pdf&sa=U&ei=bSMOTYWzKZGivgP23In3DQ&ved=0CBMQFjAA&sig2=qROsJKVrf58aUEKwDZ124Q&usg=AFQjCNFaetStF0Gzb4QpoHF8xXKHsb0qtA Impact of climate change on biodiversity of insects and Envionment, CURRENT SCIENCE, VOL. 98, NO. 12, 25 JUNE 2010. **(Impact Factor: 0.833)**
134. K. Murugan, Jiang-Shiou Hwang, K. Kovendan, K. Prasanna kumar, C. Vasugi and A. Naresh Kumar (2011) Use Of Plant Products And Copepod For The Control Of Dengue Vector, *Aedes aegypti*, Hydrobiologia (2011) 666:331–338 **(Impact Factor: 2.275)**
135. Abirami Dhandapani and Murugan Kadarkarai (2011) HPTLC Quantification of flavonoids, Larvicidal and smoke repellent octivities of

Cassia occidentalis L. (Caesalpiniaceae) Against Malarial Vector, *Anopheles Stephensi* Lis (Diptera: Culicidae). *Journal of Phytology 2011, 3(2): 60-72* ISSN: 2075-6240 *Phytopharmacology* Available Online: www.journal-phytology.com

136. K. Prabhu K. Murugan A. Nareshkumar N. Ramasubramanian, S. Bragadeeswaran (2011) Larvicidal and repellent potential of *Moringa oleifera* against Malarial vector, *Anopheles stephensi* Liston (Insecta: Diptera: Culicidae) Asian Pacific Journal of Tropical Biomedicine (2011)127-132

137. Kadarkarai Murugan (2011) Toxicity and biological effects of neem limonoids on diamondback moth, *Plutella xylostella.* The 6th International Workshop on Management of the Diamondback Moth and Other Crucifer Insect Pests, Thailand Pp: 164-171. Edited by R. Srinivasan, Anthony M. Shelton, Hilda L. Collins, AVRDC Publication No.11-755 ISBN: 92-9058-190-5.

138. Naresh Kumar. A and K. Murugan. (2011) Antimalarial and Antivectoral Activities of Traditionally Used Indigenous Medicinal Plants. Advances in Environmental Biology, 5(2): 407-412, 2011.

139. Kovendan. K and K. Murugan. (2011) Effect of Medicinal Plants on the Mosquito Vectors from the Different Agroclimatic Regions of Tamil Nadu, India. Advances in Environmental Biology, 5(2): 335-344, 2011.

140. Kovendan Kalimuthu, Kadarkarai Murugan, Savariar Vincent and Siva Kamalakannan. (2011) Larvicidal efficacy of *Jatropha curcas* and bacterial insecticide, *Bacillus thuringiensis,* against lymphatic filarial vector, *Culex quinquefasciatus* Say (Diptera: Culicidae). Parasitol Res. 109:1251–1257 **(Impact factor: 2.098)**.

141. S.Kamalakannan and K.Murugan (2011) Laboratory and Field evaluation of *Metarhizium anisopliae* for the control of Dengue vector, *Aedes aegypti* (Insecta: Diptera: Culicidae). Toxicological & Environmental Chemistry (In press). **(Impact factor: 0.825).**

142. N.Aarthi and K.Murugan (2011) Antimalarial Activity and Phytochemical Screening of Ethanolic Leaf Extract of *Phyllanthus Niruri* And *Mimosa Pudica.* International Journal of Pharmacecutical Research and Development; Vol 3(3):24; May 2011 (198-205).

143. Kovendan K, Murugan K, Vincent S, Barnard DR. (2011) Studies on larvicidal and pupicidal activity of *Leucas aspera* Willd. (Lamiaceae) and bacterial insecticide, *Bacillus sphaericus*, against malarial vector, *Anopheles stephensi* Liston. (Diptera: Culicidae) Parasitol Res. (2012) 110:195–203 **(Impact factor: 2.098)**.

144. Radha R and K. Murugan (2011) Progeny Production Of The Cowpea Weevil, *Callosobruchus Maculatus* (F). (Coleoptera: Bruchidae). Internet Journal of Food Safety, Vol.13, 2011, p.115-123.

145. N.Aarthi and K.Murugan (2011) Larvicidal and Some Repellent activity of *Mimosa pudica* against the malarial vector, *Anopheles stephensi* (Diptera: Culicidade) Bioscan 6 (20:211-214.

146. Abirami Dhandapani, Shobana Kumar and Murugan Kadarkarai (2011). Larvicidal, pupicidal and smoke toxicity effect of *Kaempferia galangal* to the malarial vector, *Anopheles stephensi Bioscan.* 6 (20): 329-333

147. Kalimuthu Kovendan, Kadarkarai Murugan, Arjunan Naresh Kumar, Savariar Vincent and Jiang-Shiou Hwang (2012) Bioefficacy of larvicdial and pupicidal properties of *Carica papaya* (Caricaceae) leaf extract and

bacterial insecticide, spinosad, against chikungunya vector, *Aedes aegypti* (Diptera: Culicidae). Parasitol Res 110:669–678 **(Impact factor: 2.098)**.

148. Kalimuthu Kovendan, Kadarkarai Murugan and Savariar Vincent (2011) Evaluation of larvicidal activity of *Acalypha alnifolia* Klein ex Willd. (Euphorbiaceae) leaf extract against the malarial vector, *Anopheles stephensi*, dengue vector, *Aedes aegypti* and Bancroftian filariasis vector, *Culex quinquefasciatus* (Diptera: Culicidae) Parasitol Res 110:571–581 **(Impact factor: 2.098)**.

149. Kolandhasamy Prabhu, Kadarkarai Murugan, Arjunan Nareshkumar, Subramanian Bragadeeswaran (2011) Larvicidal and pupicidal activity of spinosad against the malarial vector, *Anopheles stephensi* Asian Pacific Journal of Tropical Medicine (2011) 412-420. **(Impact factor: 1.062).**

150. Kuppusamy and Murugan Kadarkarai (2011) Anti malarial Activity of Traditionally Used Western Ghats Plants from India and Their Interactions with Chloroquine against Chloroquine-Tolerant *Plasmodium berghei* Vector-Borne and Zoonotic Diseases. March 2011, Vol. 11, No. 3: 259-268. **(Impact factor: 2.228).**

151. A. Naresh Kumar, K. Murugan, P. Madhiyazhagan, K. Kovendan, K. Prasannakumar, S. Thangamani and Donald Barnard (2011). Mosquitocidal and Water Purification Properties of *Cynodon dactylon*, *Aloe vera*, *Hemidesmus indicus* and *Coleus amboinicus*. Parasitology Research. 110:1435–1443 **(Impact factor: 2.098)**.

152. Murugan K. and Vasugi C. (2011) Combined effect of *Azadirachta indica* against subterranean termites, *Reticulitermes flavipes.* International Journal Entomology and *Acarology* J. Ent. Acar. Res. Ser. II, 43 (2):

153. Naresh Kumar, K. Murugan, P. Madhiyazhagan and Barnard DR. (2011). Green Synthesis of Silver Nanoparticles for the Control of Mosquito Vectors of Malaria, Filariasis, and Dengue. Vector-Borne and Zoonotic Diseases. (DOI: 10.1089/vbz.2011.0661). **(Impact factor: 2.228).**

154. Ponarulselvam S, Panneerselvam C, Murugan K, Aarthi N, Kalimuthu K, Thangamani S (2012). Synthesis of silver nanoparticles using leaves of *Catharanthus roseus* Linn. G. Don and their antiplasmodial activities. Asian Pacific Journal of Tropical Biomedicine pp.1-7.

155. Kuppusamy Chenniappan, Vasugi Chellamuthu, Abirami Dhandapani and Kadarkarai Murugan (2011). Synergistic Activity of Andrographis paniculata Nees with Bacilus thuringiensis var israelensis Against Malarial Vector, *Anopheles stephensi* Liston (Diptera: Culicidae). J. Entomol. Res. Soc., 13(3): 71-86, 2011. **(Impact factor: 0.347).**

156. Kovendan K, Murugan K, Panneerselvam C, Mahesh Kumar P, Amerasan D, Subramaniam J, Vincent S, Barnard DR. (2011) Laboratory and field evaluation of medicinal plant extracts against filarial vector, Culex quinquefasciatus Say (Diptera: Culicidae) Parasitol Res. DOI 10.1007/s00436-011-2736-2. **(Impact factor: 2.098).**

157. N.Aarthi and K. Murugan (2011) Antimalarial and Antivectorial Potential of Medicinal Plant *Cassia occidentalis* and *Andrographis paniculata*. Proceedings of the 4th conference of Medical Arthropodology: Advancement in Vectors and Vector- Borne Disease Control Researches, Lab to Field. Edited by B. K. TYAGI, 9-23, CRME, Madurai, India.

158. Kuppusamy Chenniappan and Murugan Kadarkarai (2011) Adult mortality and blood feeding behavioral effects of α-amyrin acetate, a novel bioactive compound on in vivo exposed females of *Anopheles stephensi* Liston

(Diptera: Culicidae) Parasitol. Res. DOI 10.1007/s00436-011-2737-1 **(Impact factor: 2.098).**

159. Kadarkarai Murugan (2011) Toxicity and biological effects of neem limonoids on diamondback moth, *Plutella xylostella.* Proceedings of the 6th International Workshop on Cruciferous and other pests, AVRDC Publications (International), Taiwan No.11-755 (ISBN No. 92-9058-190-5), 164-171.
160. Kadarkarai Murugan, Kalimuthu Kovendan, Savariar Vincent, Donlald R. Barnard (2011) Biolarvicidal and pupicidal activity of *Acalypha alnifolia* Klein ex Willd. (Family: Euphorbiaceae) leaf extract and Microbial insecticide, *Metarhizium anisopliae* (Metsch.) against malaria fever mosquito, *Anopheles stephensi* Liston.(Diptera: Culicidae)) Parasitol Res. DOI 10.1007/s00436-011-2758-9 **(Impact factor: 2.098)**.
161. A. Naresh kumar, K. Murugan, K. Shobana and D. Abirami (2011) Isolation of *Bacillus sphaericus* screening Larvicidal, Fecundity and Longevity Effects on Malarial Vector, *Anopheles stephensi.* Scientific Research and Essay (Accepted for publications).
162. Mahesh Kumar P, Murugan K, Kovendan K, Subramaniam J, Amerasan D, Mosquito larvicidal and pupicidal efficacy of *Solanum xanthocarpum* (Family: Solanaceae) leaf extract and bacterial insecticide, *Bacillus thuringiensis,* against *Culex quinquefasciatus* Say (Diptera: Culicidae) Parasitol Res 2012: 10.1007/s00436-011-2797-2 **(Impact factor: 2.098)**.
163. Panneerselvam C, S. Ponarulselvam and K. Murugan, (2011) Potential Antiplasmodial Activity of Synthesized Silver Nanoparticle using *Andrographis paniculata* Nees (Acanthaceae). Archives of Applied Science Research, 3 (6):208-217.

164. N Aarthi, K Murugan (2011) Effect of *Vetiveria zizanioides* L. Root extracts on the malarial vector, *Anopheles stephensi* Liston, Asian Pacific Journal of Tropical Disease (2011)154-158.

165. Kovendan K, Murugan K, and Donald R Barnard (2012) Mosquito larvicidal properties of *Orthosiphon thymiflorus* (Roth) Sleesen. (Labiatae) against mosquito vectors, *Anopheles stephensi*, *Culex quinquefasciatus* and *Aedes aegypti* (Diptera: Culicidae) Asian Pacific Journal of Tropical Medicine (2012)412-420. **(Impact factor: 1.062).**

166. Kovendan K, Murugan K, Prasannakumar K, Panneerselvam C, Mahesh Kumar P, Amerasan D, Subramaniam J and Vincent S (2012) Mosquitocidal properties of *Calotropis gigantea* (Family: Asclepiadaceae) leaf extract and bacterial insecticide, *Bacillus thuringiensis*, against the mosquito vectors. Parasitol Res DOI 10.1007/s00436-012-2865-2 **(Impact factor: 2.098).**

167. Mahesh Kumar P, Murugan K, Kovendan K, Panneerselvam C, Prasanna Kumar K, Amerasan D, Subramaniam J, Kalimuthu K, Nataraj T. (2012) Mosquitocidal activity of *Solanum xanthocarpum* fruit extract and copepod *Mesocyclops thermocyclopoides* for the control of dengue vector, *Aedes aegypti* Parasitol Res DOI 10.1007/s00436-012-2876-2 **(Impact factor: 2.098).**

168. Marcello Nicoletti, Susanna Mariani, Oliviero Maccioni, Tiziana Coccioletti, Kadarkarai Murugan (2012) Neem cake: chemical composition and larvicidal activity on Asian tiger mosquito. *Parasitology Research* (16 March 2012), pp. 1-9, doi:10.1007/s00436-012-2819-8**(Impact factor: 2.098).**

169. Agalya Priyadarshini, Karthikeyan Panneerselvam, Chellasamy; Agalya Priyadarshini, Karthikeyan, Murugan Kadarkarai, Ponarulselvam Sekar, Jiang, Shiou Hwang; and Marcello, Nicoletti (2012) Biolarvicidal and

pupicidal potential of silver nanoparticles synthesized using *Euphorbia hirta* against *Anopheles stephensi* Liston (Diptera: Culicidae).Parasitol Res 111:997–1006 **(Impact factor: 2.098).**

170. Kovendan K, Murugan K, Panneerselvam C, Aarthi N, Subramaniam J, Mahesh Kumar P, Amerasan D, Kalimuthu K, Vincent S. (2012) In vitro antimalarial activity of ethanolic leaf extract of *Carica papaya* (Family: Caricaceae) against *Plasmodium falciparum.* Asian Pacific Journal of Tropical Bio Medicine-S306-311.

171. Jayapal Subramaniam, Kadarkarai Murugan and Kalimuthu Kovendan (2012) Larvicidal and pupcidal efficacy of *Momordica charantia* leaf extract and bacterial insecticide, *Bacillus thuringiensis* against malarial vector, *Anopheles stephensi* Liston. (Diptera: Culicidae) *JBiopest*, 5 (supplementary) 301: 163-169.

172. Kalimuthu Kovendan, Kadarkarai Murugan, Savariar Vincent and Donald R. Barnard (2012) Efficacy of larvicidal and pupicidal properties of *Acalypha alnifolia* Klein ex Willd. (Euphorbiaceae) leaf extract and *Metarhizium anisopliae* (Metsch.) against *Culex quinquefasciatus* Say. (Diptera: Culicidae) *JBiopest*, 5 (supplementary) 302: 170-176.

173. Kalimuthu Kovendan, Kadarkarai Murugan, Shanmugam Perumal Shanthakumar, Savariar Vincent and Jiang-Shiou Hwang (2012) Larvicidal activity of *Morinda citrifolia* L. (Noni) (Family: Rubiaceae) leaf extract against *Anopheles stephensi*, *Culex quinquefasciatus*, and *Aedes aegypti.* Parasitology Resesearch, DOI 10.1007/s00436-012-2984-9 **(Impact factor: 2.098).**

174. Chellasamy Panneerselvam, Kadarkarai Murugan, Kalimuthu Kovendan, Palanisamy Mahesh kumar (2012) Mosquito larvicidal and pupicidal

activity of *Euphorbiahirta* Linn.(Family:*Euphorbiaceae*) and bacterial insecticide, *Bacillus sphaericus* against malarial vector, *Anopheles stephensi* Liston. (Diptera: Culicidae), Asian Pacific Journal of Tropical Medicine (2012)412-420**(Impact factor: 1.062).**

175. Murugan K, Mahesh Kumar P, Kovendan K, Amerasan D, Subramaniam J, Hwang JS. (2012) Larvicidal, pupicidal, repellent and adulticidal activity of *Citrus sinensis* Orange peel extract against *Anopehles stephensi*, *Aedes aegypti* and *Culex quinquefasciatus* (Diptera: Culicidae) Parasitology Research. 111:1757-1769**(Impact factor: 2.098).**

176. Subramaniam J, Murugan K, Kovendan K, Mahesh Kumar P, Panneerselvam C, Nataraj T, Amerasan D, Kalimuthu K. Bio-efficacy of Methanolic Plant extracts against the larvae and pupae of malarial vector. *Anopheles stephensi* (Diptera: Culicidae) Indian Journal of Applied Entomology 2012: 25(2): 131-135.

177. Duraisamy Amerasan, Kadarkarai Murugan, Kalimuthu Kovendan, Palanisamy Mahesh Kumar, Chellasamy Panneerselvam Jayapal Subramaniam, Samuel John William, Jiang-Shiou Hwang. (2012) Adulticidal and repellent properties *of Cassia tora* Linn. (Family: Caesalpinaceae) against *Culex quinquefasciatus*, *Aedes aegypti*, and *Anopheles stephensi.* Parasitology Research. : DOI: 10.1007/s00436-012-3042-3**(Impact factor: 2.098)**.

178. Prasanna Kumar K, Murugan K, Kovendan K, Hwang JS, Donald R. Barnard. Combined effect of seaweed *Sargassum wightii greville* and *Bacillus thuringiensis* var. *israelensis* against coastal mosquito vector, *Anopheles sundaicus* (L.) Tamil Nadu, India. Journal of Science Asia 2012: 141-146.

179. Jayapal Subramaniam, Kalimuthu Kovendan, Palanisamy Mahesh Kumar, Kadarkarai Murugan, William Walton. (2012). Mosquito larvicidal activity of *Aloe vera* (Family: Liliaceae) leaf extract and *Bacillus sphaericus*, against Chikungunya vector, *Aedes aegypti*. Saudi Journal of Biological Sciences (2012) http://dx.doi.org/10.1016/j.sjbs.2012.07.003. **(Impact factor: 1.257).**

180. Kovendan K, Murugan K, Shanthakumar S.P, Vincent S (2012) Evaluation of larvicidal and pupicidal activity of *Morinda citrifolia* L. (Noni) (Family: Rubiaceae) against three mosquito vectors. Asian Pacific Journal of Tropical Disease: 1-5.

181. Amerasan D, Murugan K, Kovendan K, Mahesh Kumar P, Panneerselvam C, Subramaniam J, Jayaraj R.S.C, Balu A and Krishnakumar N (2012) Influence of elevated co_2 on plant chemistry and bio-chemical changes of papaya mealy bug, *Paracoccus marginatus* (insecta:hemiptera: pseudococcidae). Biodiversity and physiological processes: 110 -120

182. Mahesh Kumar P, Murugan K, Kovendan K, Subramaniam J, Amerasan D, Panneerselvam C, Kalimuthu K, Nataraj T (2012) Combined effect of *Cadaba trifoliate* (family : Capparacecae) leaf extract with *Bacillus thuringiensis* against malarial Vector, *Anopheles stephesi*, Liston (Diptera : Culucidae). Biodiversity and Physiological Processes: 121 -136

183. Kovendan K, Murugan K and Vincent (2012) Mosquitocidal efficacy of *Orthosipon thymiflorus* (Roth) Sleesen. (Family: Labiatae) leaf extract and microbial insecticide, *Metarhizium anisopliae*, against dengue vector, *Aedes aegypti* (Diptera: Culucidae). Biodiversity and Physiological Processes: 137 - 151.

184. A. Naresh Kumar, K. Murugan, P. Madhiyazhagan (2012) Integration of botanicals and microbials for management of crop and human pests. Parasitol Res. 112 (1): 313-325 **(Impact factor: 2.098)**.

185. Panneerselvam C, Murugan K, Kovendan K, Mahesh Kumar P (2012) Mosquito larvicidal, pupicidal, adulticidal, and repellent activity of *Artemisia nilagirica* (Family:Compositae) against *Anopheles stephensi* and *Aedes aegypti*. Parasitol Res DOI 10.1007/s00436-012-3073-9 **(Impact factor: 2.098).**

186. Chellasamy Panneerselvam, Kadarkarai Murugan, Kalimuthu KovendanPalanisamy Mahesh Kumar, Jayapal Subramaniam (2012) Mosquito larvicidal and pupicidal activity of *Euphorbia hirta* Linn. (Family: Euphorbiaceae) and *Bacillus sphaericus* against Anopheles *stephensi* Liston. (Diptera: Culicidae) Asian Pacific Journal of Tropical Medicine 412-420**(Impact factor: 1.062).**

187. Palanisamy Mahesh Kumar, Kalimuthu Kovendan, Kadarkarai Murugan (2012 Integration of botanical and bacterial insecticide against *Aedes aegypti Anopheles stephensi.* Parasitol Res DOI 10.1007/s00436-012-3196-z **(Impact factor: 2.098).**

188. Chellasamy Panneerselvam, Kadarkarai Murugan, Kalimuthu KovendanPalanisamy Mahesh Kumar (2012) Mosquito larvicidal, pupicidal, adulticidal, and repellent activity of *Artemisia nilagirica* (Family: Compositae) against *Anopheles stephensi* and *Aedes aegypti* Parasitol Res (2012) 111:2241–2251**(Impact factor: 2.098).**

189. Mathath Roni, Kadarkarai Murugan, Chellasamy Panneerselvam, Subramaniam, Jiang-Shiou Hwang (2012) Evaluation of leaf aqueous

extract and synthesized silver nanoparticles using *Nerium oleander* against *Anopheles stephensi* (Diptera: Culicidae) Parasitol Res DOI 10.1007/s00436-012-3220-3**(Impact factor: 2.098).**

190. K. Murugan, P. Madhiyazhagan, A. Nareshkumar, T. Nataraj, D. Dinesh, J.S. Hwang, M. Nicoletti (2012) Mosquitocidal and water purification properties of *Ocimum sanctum* and *Phyllanthus emblica*. Journal of Entomological and Acarological Research volume 44:e17
191. A. Nareshkumar, K. Murugan, I. Baruah, P. Madhiyazhagan, T. Nataraj (2012) Larvicidal potentiality, longevity and fecundity inhibitory activities of *Bacillus sphaericus* (Bs G3-IV) on vector mosquitoes, *Aedes aegypti* and *Culex quinquefasciatus*. Journal of Entomological and Acarological Research volume 44:e1
192. A. Naresh kumar,T. Jeyalalitha, K. Murugan, P. Madhiyazhagan (2013) Bioefficacy of plant-mediated gold nanoparticles and *Anthocepholus cadamba* on filarial vector, *Culex quinquefasciatus* (Insecta: Diptera: Culicidae) Parasitol Res DOI 10.1007/s00436-012-3232-z **(Impact factor: 2.098).**
193. Murugan K. And Madhiyazhagan (2013) Water Purification and Mosquitocidal Properties of Botanical Extract (*Ocimum sanctum*) against mosquito vectors of different agroclimatic zone of Tamil Nadu, India. Proceedings of the Regional Science Congress on Science for shaping the future of India, Edited by Aruchami M. Kongu Printers, Coimbatore, Tamil Nadu, Vol.1, pp 42-49.
194. Chenniappan KUPPUSAMY Kadarkarai MURUGAN (2012) Skin and Oviposition Deterrent, Ovicidal and Deleterious Delayed Mortality Effects of α-amyrin Acetate Against the Malarial Vector *Anopheles stephensi*

(Diptera: Culicidae), J. Entomol. Res. Soc., 14(3): 12-19 2012 ISSN:1302-0250 **(Impact factor: 0.347).**

195. Kandasamy Kalimuthu1, Kadarkarai Murugan, Chellasamy Panneerselvam1 and Jiang- Shiou Hwang (2012). Mosquito larvicidal activity of *Cadaba indica lam* leaf extracts against the dengue vector, *Aedes aegypti* Asian Journal of Plant Science and Research, 2012, 2 (5):633-637

196. Pari Madhiyazhagan, Kadarkarai Murugan, Arjunan Naresh kumar and Thiyagarajan Nataraj (2012) Larvicidal, Pupicidal and Ovicidal activity of *Coccinia grandis,* against Malarial vector, *Anopheles stephensi,* Dengue vector, *Aedes aegypti*, Flarial vector, *Culex quinquefasciatus.* Asian Pacific Journal of Tropical Biomedicine (2012)1-7.

197. Kalimuthu Kovendan, Kadarkarai Murugan, Palanisamy Mahesh Kumar, Perumal Thiyagarajan & Samuel John William (2012) Ovicidal, repellent, adulticidal and field evaluations of plant extract against dengue, malaria and filarial vectors. Parasitol Res DOI 10.1007/s00436-012-3252-8 **(Impact factor: 2.098)**.

198. Durga Devi G, Murugan K. (2013) Larvicidal and Pupicidal Efficacy of *Alocasia Macrorrhiza* (L.) Schott (Araceae) Leaf extract and bacterial insecticide, *Bacillus thuringiensis Israelensis* against the Malarial Vector, *Anopheles stephensi* Liston. (Diptera: Culicidae). International journal of current life sciences- vol.2, Issue, 1, pp. 132- 138.

199. Samidoss Christina Mary, K. Murugan, Mathath Roni, S.Sivapriya jothi, N.A.Suganya. (2013) Larvicidal potentials of silver nano particles synthesized using *Adiandum capillus veneris* against *Anopheles stephensi* (Diptera: Culicidae). International journal of current life sciences- vol.2, Issue, 1, pp. 087- 096.

200. S.Sivapriyajothi, K. Murugan, S.Christina Mary, M.Roni, N.A.Suganya. (2013) Effect of *Leucas aspera* leaf extract against the malarial vector, *Anopheles stephensi* Liston. (Diptera: Culicidae). International journal of current life sciences- vol.2, Issue, 1, pp. 097- 103.

201. Mathath Roni, K. Murugan, S.Christina Mary, S.Sivapriyajothi, N.A.Suganya, D.Dinesh, S.Vivek. (2013) Ovicidal and adulticidal activity of *Nerium oleander* extract against *Anopheles stephensi* Liston. (Diptera: Culicidae). International journal of current life sciences- vol.2, Issue, 1, pp. 111- 177.

202. Suganya Ayyappan, Kadarkarai Murugan, Mathath Roni, S. Christina Mary, S. Sivapriya jothi. (2013) Larvicidal, Pupicidal and Repellent activity of *Murraya koenigii* leaf extract against malarial vector, *Anopheles stephensi* Liston. (Diptera: Culicidae). International journal of current life sciences- vol.2, Issue, 1, pp. 104- 110.

203. Kadarkarai Murugan, and Chellasamy Panneerselvam. (2013) Antimalarial potential of Neem Limonoids against *Plasmodium falciparum*. *International journal of current life sciences* - vol.2, Issue, 1, pp. 025- 029.

204. Nachimuthu Senthilkumar, Guruswami Gurusubramanian, Kadarkarai Murugan (2013) Joint Insecticidal Action of *Bacillus thuringiensis* kurstaki with *Annona squamosa* L. and *Prosopis juliflora* Swartz DC on *Helicoverpa armigera* (Hu¨bner) (Lepidoptera: Noctuidae) Proc Zool Soc DOI 10.1007/s12595-013-0059-2

205. Kadarkarai Murugan, Kandasamy Kalimuthu, Palanisamy Mahesh Kumar, Jiang-Shiou Hwang, Marcello Nicoletti (2013). Larval and pupal toxicity

effects of *Plectranthus amboinicus*, *Bacillus sphaericus* and predatory copepods for the control of the dengue vector, *Aedes aegypti.* Phytoparasitica 41: 307-316. **(Impact factor: 1.062).**

206. Ayyappan Suganya, Kadarkarai Murugan, Kalimuthu Kovendan, Palanisamy Mahesh Kumar, Jiang-Shiou Hwang (2013). Green synthesis of silver nanoparticles using *Murraya koenigii* leaf extract against *Anopheles stephensi* and *Aedes aegypti*. Parasitol Res DOI 10.1007/s00436-012-3269-z **(Impact factor: 2.098).**

207. K. Murugan, P. Madhiyazhagan A. Noortheen1, T. Nataraj1, D. Amerasan, K. Kalimuthu1 and Jiang-Shiou Hwang (2013). Novel Biopesticides for the Sustainable Management of Mosquito Vectors (Insecta: Diptera: Culicidae). In:Perspectives in Animal Ecology and Reproduction- Vol. 9., pp. 96-137., Edited by V.Gupta., M/S Daya Publishing House, New Delhi, INDIA.

208. K. Murugan, A. Noortheen1, T. Nataraj1, D. Amerasan1, P. Madhiyazhagan1, K. Kalimuthu and Jiang-Shiou Hwang (2013). Use of Biological Insecticides for the Control of Dengue Vector, *Aedes aegypti* (L.) (Insecta : Diptera : Culicidae). In: Perspectives in Animal Ecology and Reproduction- Vol. 9. pp., 138-158, Edited by V.Gupta.,. M/S Daya Publishing House, New Delhi, INDIA.

209. P. Madhiyazhagan, K. Murugan, A. Nareshkumar, T. Nataraj, D. Amerasan K. Kalimuthu and Jiang-Shiou Hwang (2013). Larvicidal Effect of Spinosad and Azadirachtin against Dengue Vector, *Aedes aegypti* (Insecta: Diptera: Culicidae) and *Chironomus kiiensis* (Chironomidae). In:Perspectives in Animal Ecology and Reproduction- Vol. 9., pp., 159-188., Edited by V.Gupta., pp. M/S Daya Publishing House, New Delhi, INDIA.

210. Kadarkarai Murugan, Jayapal Subramaniam, Chellasamy Panneerselvam And G. Durga Devi (2013). Impact Of Climate Change On The Conservation And Management Of Insects With Special Reference To Food Security. In: FOOD SECURITY: Issues and Concerns, Edited by John Joseph M. Shanlax Publications., Madurai, India (ISBN: 978-93-80657-84-4. Pp.223-250.

211. K. Prabhu, K. Murugan and S. Bragadeeswaran (2013). Larvicidal activities of Spinosad and *Moringa oleifera* seed extract against the non-biting midges *Chironomus kiinesis* (Diptera: Chironomidae). Edited by Subramanian, B. and Rafi, S.M. *Advances in Aquatic Biotoxins: Venom and Poison,* 137-151p, *Lambert Academic Publishing Company, India.*

212. Thangadurai Chitra, Kadarkarai Murugan, Arjunan Naresh Kumar, Pari Madhiyazhagan, Thiyagarajan Nataraj1,Duraisamy Indumathi, Jiang-Shiou Hwang (2013) Laboratory and field efficacy of *Pedalium murex* and predatory copepod, *Mesocyclops longisetus* on rural malaria vector, *Anopheles culicifacies.* Asian Pacific Journal of Tropical Disease. an Pac J Trop Dis 2013; 3(2): 111-118

213. Chellamuthu Vasugi, Siva Kamalakannan, Kadarkarai Murugan (2013) Toxicity effect of *Delonix elata* (Yellow Gulmohr) and predatory efficiency of Copepod, *Mesocyclops aspericornis* for the control of dengue vector, *Aedes aegypti* Asian Pac J Trop Dis 2013; 3(2): 119-126.

214. A. Naresh kumar, K. Murugan, K. Shobana and D. Abirami (2013) Isolation of *Bacillus sphaericus* screening larvicidal, fecundity and longevity effects on malaria vector *Anopheles stephensi* Vol. 8 (11), pp.425-431,18 March, 2013 DOI10.5897/SRE10.373. ISSN 1992-2248)© 2013Academic Journals.

215. K. Murugan, P. Madhiyazhagan, T. Nataraj, K. Prasanna kumar, P. Mahes kumar, K. Kalimuthu and Jiang-Shiou Hwang (2013) Climate change on mosquito prevalence in aquatic system and their management by biological insecticide. *Journal of Basic and Applied Biology*, Vol-7(4) pp. 138-150.

216. Nicoletti Marcello, Kardarkarai Murugan (2013) Neem the tree of 21st century. Pharmacology Online, Vol.3: 106–112.

217. Nicoletti Marcello, Toniolo C, Kardarkarai Murugan (2013) The HPTLC approach to metabolomic determination of neem products composition. Pharmacology OnLine, Vol.3:113–118.

218. Kandasamy Kalimuthu, Show-Mei Lin, Li-Chun Tseng, Kadarkarai Murugan, Jiang-Shiou Hwang (2013) Bio-efficacy potential of seaweed, *Gracilaria firma* with copepod, *Megacyclops formosanus* for the control larvae of dengue vector *Aedes aegypti*. Hydrobiologia, DOI 10.1007/s10750-013-1745-9. **(Impact Factor: 2.275)**

219. Kandasamy Kalimuthu, Chia-Hsiang Wang, Shiu-Mei Liu, Li-Chun Tseng, Kadarkarai Murugan, and Jiang-Shiou Hwang (2013) Mosquito larvicidal activity of *Broussonetia papyrifera* compound Marmesin by blocking protein aescp-2, docking strategies, and combined effect of copepod, *Megacyclops formosanus* against dengue Vector *Aedes aegypti* (Diptera: Culicidae). Journal of Marine Science and Technology, Vol. 21, Suppl, pp. 308-315 (2013), DOI: 10.6119/JMST-013-1223-8

220. Kandasamy Kalimuthu, Kadarkarai Murugan, Li-Chun Tseng, and Jiang-Shiou Hwang (2013) Mosquitocidal activity of *Hedychium coronarium* rhizome extract and Copepod *Megacyclops formosanus* for the control of dengue vector, *Aedes aegypti.* Journal of Marine Science and Technology, Vol. 21, Suppl, pp. 258-266 (2013) DOI: 10.6119/JMST-013-1223-4

221. Raman Chandrasekar, Brintha Parasumanna Girinathan, Minglin Lang, Murugesan Chandrasekaran, Kadarakarai Murugan (2013) Three-Dimensional Molecular Structure Prediction of Selenocysteine Methyltransferase (BoSMT) from *Brassica oleracea*, Brassicaceae: Characterization, Functional Genomics and Health Benefits DOI: ISBN: 978-1-62808-856-4.

222. Kalimuthu Kovendan, Murugan Kadarkarai, Shanmugam Perumal Shanthakumar, Cheruparambath Praseeja, Palanisamy Mahesh Kumar (2014) Mosquitocidal properties of *Morinda citrifolia L.* (Noni) (Family:Rubiaceae) leaf extract and *Metarhizium anisopliae* against malaria vector, *Anopheles stephensi* Liston. (Diptera: Culicidae), Asian Pac J Trop Dis 2014; 4 (Suppl):

223. Nareshkumar Arjunan, Murugan Kadarkarai, Madhiyazhagan Pari, Nataraj Thiyagarajan and Shobana Kumar (2014) Impact of climate change on filarial vector, *Culex quinquefasciatus* and control using bacterial pesticide, spinosad. Asian Pacific Journal of Tropical Disease. doi: 10.1016/S2222-1808(14) 60420-5.

224. Narasimhan Aarthi, G. James Pitchai, K. Murugan, Pari Madhiyazhagan, Thiyagarajan Nataraj, Arjunan Nareshkumar, Kandasamy Kalimuthu, Jiang-Shiou Hwang, Donald R. Barnard, Hui Wei, and R. Chandrasekar A. Amsath (2014) Studies On The Effect Of *Sida Acuta* And *Vetiveria Zizanioides* Against The Malarial Vector, *Anopheles Stephensi* And Malarial Parasite, *Plasmodium berghei.* International Journal of Pure and Applied Zoology, 2 (1) 51-60.

225. K. Murugan, G. James Pitchai, P. Madhiyazhagan, T. Nataraj, A. Nareshkumar, Jiang-Shiou Hwang, R. Chandrasekar and M. Nicoletti (2014) larvicidal, repellent and smoke toxicity effect of neem products against

malarial vector, *anopheles stephensi*. International Journal of Pure and Applied Zoology, 2 (2) 71-83.

226. Donald R. Barnard and K. Murugan (2014) Measurement of landing mosquito density on humans, Acta Tropica Acta Trop. 2014 Aug;136:58-67.

227. Pari Madhiyazhagan,, K. Murugan, Arjunan Naresh Kumar and Thiyagarajan Nataraj (2014) Extraction of mosquitocidals from *Ocimum canum* leaves for the control of dengue and malarial vectors. Asian Pacific Journal of Tropical Disease. Asian Pac J Trop Dis 2015; 5:77-84

228. Marcello Nicoletti, K. Murugan and Paola Del Serrone (2014) Current mosquito-borne disease emergencies in Italy and climate changes. The neem opportunity. Trends in Vector Research and Parasitology DOI:http://dx. doi. org/10.7243/2054 – 9881 – 1 -12 **(Impact factor: 2.098)**.

229. M. Rajeswary, M. Govindarajan, K.Murugan, Jiang-Shiou Hwang, Donald R. Barnard, and U. Muthukumaran (2014). Ovicidal Activity of *Ageratina adenophora* (Family: Asteraceae) Against Dengue Vector, *Aedes aegypti* (Diptera: Culicidae). International Journal of Curent Inovation Research, Vol. 1, No. 1, pp. 20-24.

230. M. Rajeswary, M. Govindarajan, K. Murugan, Jiang-Shiou Hwang, Donald R. Barnard, A. Amsath, K.Veerakumar and U. Muthukumaran (2014). Mosquito ovicidal properties of *Ageratina adenophora* (family: Asteraceae) against filariasis Vector, *Culex quinquefasciatus* (Diptera: Culicidae). International Journal of Pure and Applied Zoology, Volume 2, Issue 2, pp: 182-186, 2014.

231. G. Durga Devi, K. Murugan and C. Panneer Selvam (2014). Green synthesis of silver nanoparticles using *Euphorbia hirta* (Euphorbiaceae) leaf extract against crop pest of

cotton bollworm, *Helicoverpa armigera* (Lepidoptera: Noctuidae).J Biopest. 7(Supp.): 54-66(2014

232. S. Sivapriyajothi, P. Mahesh Kumar, K. Kovendan, J. Subramaniam, K. Murugan Larvicidal and pupicidal activity of synthesized silver nanoparticles using *Leucas aspera* leaf extract against mosquito vectors, *Aedes aegypti* and *Anopheles stephensi* (2014). DOI: http://dx.doi.org /10.4081/jear.2014.1787

233. K. Murugan, R. Chandrasekar, C. Panneerselvam, A. Naresh Kumar, P. Madhiyazhagan, P. Mahesh Kumar, Jiang-Shiou Hwang, Jiang Wei (2014) Green protocol for synthesis of metal nanoparticles to control insect pests In book: Short Views on Insect Biochemistry and Molecular Biology, Edition: First Edition, Chapter: 21, Publisher: International Book Mission, Academic Publisher, Manhattan, KS, USA, Editors: Raman Chandrasekar, BK Tyagi, ZZ Gui, GR Reeck, pp.473-496.

234. S Sivapriyajothi, PM Kumar, K Kovendan, J Subramaniam, K Murugan (2014). Larvicidal and pupicidal activity of synthesized silver nanoparticles using *Leucas aspera* leaf extract against mosquito vectors, *Aedes aegypti* and *Anopheles stephensi* Journal of Entomological and Acarological Research 46 (2), 77-84.

235. S. Priya, K. Murugan, A. Priya, D. Dinesh, C. Pannneerselvam, G. Durga Devi, B. Chandramohan, P. Mahesh Kumar, Donald R. Barnard, Rui-De Xue, Jiang-Shiou Hwang, M. Nicoletti, R. Chandrasekar, A. Amsath, R. Bhagooli, Hui Wei (2014) Green synthesis of silver nanoparticles using Calotropis gigantea and their potential mosquito larvicidal property, International Journal of Pure and Applied Zoology,Volume 2, Issue 2, pp: 128-137. (Rishan Publications).

236. DR Barnard, CZ Dickerson, K Murugan, RD Xue, DL Kline, UR Bernier (2014) Measurement of landing mosquito density on humans Acta tropica 136, 58-67**(Impact factor: 2.519).**

237. BD Bhattacharya, JS Hwang, SK Sarkar, D Rakhsit, K Murugan, LC Tseng (2014) Community structure of mesozooplankton in coastal waters of Sundarban mangrove wetland, India: A multivariate approach Journal of Marine Systems 141, 112-121

238. K Kovendan, SP Shanthakumar, C Praseeja, PM Kumar, K Murugan, (2013) Mosquitocidal properties of Morinda citrifolia L.(Noni)(Family: Rubiaceae) leaf extract and Metarhizium anisopliae against malaria vector, Anopheles stephensi Liston.(Diptera: Culicidae) Asian Pacific Journal of Tropical Disease 4, S173-S180

239. P. Thiyagarajan, PM Kumar, K Kovendan, K Murugan (2014) Effect of medicinal plant and microbial insecticides for the sustainable mosquito vector control Acta Biologica Indica 3 (1), 527-535.

240. P Thiyagarajan, PM Kumar, K Murugan, K Kovendan (2014) Mosquito larvicidal, pupicidal and field evaluation of microbial insecticide, Verticillium lecanii against the malarial vector, Anopheles stephensi Acta Biologica Indica 3 (1), 541-548.

241. Kamalakannan S, **Murugan K** (2015) Biosynthesis of silver nanoparticles using the *Argemone mexicana* for the toxicity on*Aedes aegypti* mosquito and their antibacterial activity. TROPICAL MEDICINE & INTERNATIONAL HEALTH. 20: 403-403, WILEY-BLACKWELL. **Impact Factor: 2.329).**

242. Kamalakannan, S., **Murugan K.**, Chandramohan, B. 2015. Insect growth regulatory activity of *Acalypha alnifolia* (Euphorbiaceae) and *Vitex*

negundo (Verbenaceae) leaf extracts against *Aedes aegypti* (Diptera: Culicidae). Int. J. Mosq. Res., 2: 47–52.

243. G. Benelli, K. Murugan, C. Panneerselvam, P. Madhiyazhagan, B. Conti (2015) Old ingredients for a new recipe? Neem cake, a low-cost botanical by-product in the fight against mosquito-borne diseases Parasitology res, doi: 10.1007/s00436-014-4286-x **(Impact factor: 2.098).**

244. Suresh U, Murugan K, Benelli G, Nicoletti M, Barnard DR, Panneerselvam C, Mahesh Kumar P, Subramaniam J, Dinesh D, Chandramohan B (2015) Tackling the growing threat of dengue: *Phyllanthus niruri*-mediated synthesis of silver nanoparticles and their mosquitocidal properties against the dengue vector *Aedes aegypti* (Diptera: Culicidae). Parasitol Res, doi: 10.1007/s00436-015-4339-9 **(Impact factor: 2.098).**

245. Dinesh D, Murugan K, Madhiyazhagan P, Panneerselvam C, Nicoletti M, Jiang W, Benelli G, Chandramohan B, Suresh U (2015) Mosquitocidal and antibacterial activity of green-synthesized silver nanoparticles from *Aloe vera* extracts: towards an effective tool against the malaria vector *Anopheles stephensi*? Parasitol Res, doi: 10.1007/s00436-015-4336-z **(Impact factor: 2.098).**

246. Panneerselvam C, Murugan K and Amerasan D. (2015). Biosynthesis of silver nanoparticles using plant extract and its anti-plasmodial property. Advanced Metrials Research Vol. 1086 pp 11-30.

247. Kadarkarai Murugan, Giovanni Benelli, Suganya Ayyappan, Devakumar Dinesh, Chellasamy Panneerselvam, Marcello Nicoletti, Jiang-Shiou Hwang, Palanisamy Mahesh Kumar, Jayapal Subramaniam, Udaiyan Suresh (2015) Toxicity of seaweed-synthesized silver nanoparticles against the filariasis vector *Culex quinquefasciatus* and its impact on predation

efficiency of the cyclopoid crustacean *Mesocyclops longisetus* Parasitol Res DOI 10.1007/s00436-015-4417-z **(Impact factor: 2.098)**.

248. Murugan K, Benelli G, Panneerselvam C, Subramaniam J, Jeyalalitha T, Dinesh D, Nicoletti M, Hwang JS, Suresh U, Madhiyazhagan P (2015) *Cymbopogon citratus*-synthesized gold nanoparticles boost the predation efficiency of copepod *Mesocyclops aspericornis* against malaria and dengue. Exp Parasitology 153:129-38. doi: 10.1016 **(Impact factor: 1.638).**

249. V. Nathiya,P. Saravana Bhavan, K. Murugan, C. Panneerselvam, U. Suresh, C. Vadivalagan,K. Pugazhendy and Jiang-Shiou (2015) Hwang Predatory Ability of *Mesocyclops Aspericornis* on The Larvae of *Culex uinquefasciatus* Under Monocrotophos Polluted Condition. Int. J. Modn. Res. Revs. Volume 3, Issue 3, pp 630-634,

250. K. Pugazhendy, A. Revathi, Kadarkarai Murugan, Jiang-Shiou Hwang (2015) Chelating properties of *Cardiospermum halicacabum* against Cadmium toxicity on antioxidant enzyme activities in the Fresh water Crab, *Paratelphusa hydrodromaus*. Int. J. Adv. Res. Biol.Sci. 2(5): (2015): 183–188.

251. K. Pugazhendy, A.Revathi, Kadarkarai Murugan and Jiang-Shiou Hwang (2015) Protective effect of *Cardiospermum halicacabum* against Cadmium toxicity induced oxidative damage and biomarker enzymes alterations in the Fresh water Crab. *Paratelphusa hydrodromaus* Journal of Pharmacy Research 2015, 9(5), 337-342

252. K. PugazhendyA. Revathi, S. Prabakaran, K. Murugan and Jiang-Shiou Hwang (2015) Convalesce consequence of *Pisonia alba* and *Cardiospermum halicacabum* aligned with the atrazine inebriated on

antioxidant enzymes and histological changes in liver tissue of Rattus norvegicus. Int. J. Adv. Lif. Sci., Ava onl at www. ijals.co

253. D. Amerasan, K. Murugan, C. Panneerselvam, N. Kanagaraju, K. Kovendan, P. Mahesh Kumar (2015) Bio-efficacy of *Morinda tinctoria* and *Pongamia glabra* plant extracts Against the malaria vector *Anopheles stephensi* (Diptera: Culicidae) Journal of Entomological and Acarological Research 2015; 47:1986

254. Naresh Kumar A, K. Murugan,C. Thomas Vincent,P. Madhiyazhagan,T. Nataraj,K. Shobana (2015) The distribution of *Culex* mosquitoes in Coimbatore, Tamil Nadu, India. Journal of Entomological and Acarological Research 2015; 47:4565

255. J. Subramaniam, K. Murugan, K. Kovendan, P. Mahesh Kumar,D. Amerasan, C. Panneer Selvam, T. Nataraj, D. Dinesh, B. Chandramohan, R. Chandrasekarand Jiang-Shiou Hwang (2015) Evaluation of Sustainable and Eco-friendly Approaches of Indian Seaweeds against Coastal Malarial Vector, *Anopheles sundaicus* (Diptera:Culicidae). Utilisation and Management of Medicinal Plants Vol.3

256. D. Amerasan, K. Murugan, C. Panneerselvam, K. Kovendan,P. Mahesh Kumar, J. Subramaniam, T. Nataraj, D. Dinesh, B. Chandramohanan, R. Chandrasekar (2015). Larvicidal Activity of Indigenous Plant Extracts against Diamondback Moth *Plutella xylostella* (Lep: Plutellidae). Utilisation and Management of Medicinal Plants Vol.3

257. Murugan K, Higuchi A and Murugan A (2015) Odontogenic Epithelial Stem Cells: Hidden Sources. Laboratory Investigation *Laboratory Investigation*

(2015) **95,** 1344–1352; doi:10.1038/labinvest.2015.108; published online 14 September 2015 **(Impact factor: 4.857).**

258. Haribalan Perumalsamy, Myung Jin Jang, Jun-Ran Kim, Murugan Kadarkarai and Young-Joon Ahn (2015) Larvicidal activity and possible mode of action of four flavonoids and two fatty acids identified in *Millettia pinnata* seed toward three mosquito species. Parasites and Vectors: 8:237 DOI 10.1186/s13071-015-0848-8. **(Impact factor: 3.430).**

259. Sujitha K, Murugan K, Paulpandi M, Panneerselvam C, Suresh U, Roni M, Nicoletti M, Akon Higuchi, Madhiyazhagan P, Subramaniam J, & Dinesh D, Vadivalagan C, Chandramohan B, Abdullah A. Alarfaj, Murugan A. Munusamy, Donald R. Barnard, Benelli G (2015) Green-synthesized silver nanoparticles as a novel control tool against dengue virus (DEN-2) and its primary vector *Aedes aegypti*. Parasitol Res. DOI 10.1007/s00436-015-4556-2 **(Impact factor: 2.098).**

260. Duraisamy Amerasan D, Nataraj T, Murugan K, Panneerselvam C, Madhiyazhagan P, Nicoletti M, Benelli (2015) Myco-synthesis of silver nanoparticles using *Metarhizium anisopliae* against the rural malaria vector *Anopheles culicifacies* Giles (Diptera: Culicidae). J Pest Sci. DOI 10.1007/s10340-015-0675-x **(Impact factor: 2.644).**

261. Mathath Roni Kadarkarai Murugan, Chellasamy Panneerselvam, Jayapal Subramaniam, Marcello Nicoletti, Pari Madhiyazhagan, Devakumar Dinesh, Udaiyan Suresh, Hanem F. Khater, Hui Wei, Angelo Canale, Abdullah A. Alarfaj, Murugan A. Munusamy, Akon Higuchi, Giovanni Benelli (2015). Characterization and biotoxicity of *Hypnea musciformis*-synthesized silver nanoparticles as potential eco-friendly control tool

against *Aedes aegypti* and *Plutella xylostella.* Ecotoxicology and Environmental Safety Pages 31–38

262. Murugan K, Priyanka V, Dinesh D, Madhiyazhagan P, Panneerselvam C, Subramaniam J, Suresh U Chandramohan B, Roni M, Nicoletti M, Abdullah A. Alarfaj, Akon Higuchi, Murugan A. Munusamy, Hanem F. Khater, Russell H. Messing, Benelli G (2015) Predation by Asian bullfrog tadpoles, *Hoplobatrachus tigerinus*, against the dengue vector, *Aedes aegypti*, in an aquatic environment treated with mosquitocidal nanoparticles. Parasitol Res. DOI 10.1007/s00436-015-4582-0 **(Impact factor: 2.098).**

263. Chandramohan B, Murugan K, Kovendan K, Panneerselvam C, Mahesh Kumar P, Madhiyazhagan P, Dinesh D, Suresh U, Subramaniam J, Amaresan D, Nataraj T, Nataraj D, Hwang JS, Alarfaj AA, Nicoletti M, Canale A, Mehlhorn H, Benelli G* (2015) Ovicidal, larvicidal, pupicidal and adulticidal properties ofAcorus calamus-synthesized silver nanoparticles against the malaria vector *Anopheles stephensi:* do nanoinsecticides impact predation of *Mesocyclops edax* copepods against mosquito larvae? In: "Nanoparticles in the fight against parasites" (Editor Heinz Mehlhorn), Parasitology Research Monographs, Springer, ISSN: 2192-3671, in press (Invited Chapter) **(Impact factor: 2.098)**.

264. Murugan K, Aarthi N, Kovendan K, Panneerselvam C , Chandramohan B, Mahesh Kumar P, Amerasan D, Paulpandi M Chandirasekar R, Dinesh D, Suresh U, Subramaniam J, Higuchi A, Abdullah A, Alarfaj, Nicoletti M, Mehlhorn H, Benelli G (2015) Mosquitocidal and antiplasmodial activity of *Senna occidentalis* (Cassiae) and *Ocimum basilicum* (Lamiaceae) from Maruthamalai hills against *Anopheles stephensi* and *Plasmodium falciparum* Parasitol Res DOI 10.1007/s00436-015-4593-x **(Impact factor: 2.098).**

265. Murugan K, Panneerselvam C, Eugine Venus JS, Bedini S, Conti B, Nicoletti M, Sarkar SK, Hwang JS, Subramaniam J, Madhiyazhagan P, Mahesh Kumar P, Dinesh D, Suresh U, Benelli G (2015). Biosynthesis, mosquitocidal and antibacterial properties of *Toddalia asiatica*-synthesized silver nanoparticles: do they impact predation of guppy *Poecilia reticulate* against the filariasis mosquito *Culex quinquefasciatus*?. Environ Sci Pollut Res. DOI 10.1007/s11356-015-4920-x **(Impact Factor: 2.828)**

266. Murugan K, Sanoopa, CP, Madhiyazhagan P, Dinesh D, Subramaniam J, Panneerselvam C, Roni M, Suresh U, Abdullah A, Nicoletti M, Alarfaj, Munusamy M, Higuchi A, Kumar S, Haribalan P, Ahn, Young-Joon, Benelli G (2015) Rapid biosynthesis of silver nanoparticles using *Crotalaria verrucosa* leaves against the dengue vector *Aedes aegypti*: what happens around? An analysis of dragonfly predatory behaviour after exposure at ultra-low doses. Natural Product Research 01/2015; DOI:10.1080/14786419.2015.1074230· **(Impact Factor: 1.23)**

267. **Murugan K**, Samidoss CM, Panneerselvam C, Higuchi A, Roni M, Suresh U, Chandramohan B, Subramaniam J, Madhiyazhagan P, Dinesh D, Rajaganesh R, Alarfaj AA, Nicoletti M, Kumar S, Wei H, Canale A, Mehlhorn H, Benelli G Seaweed-synthesized silver nanoparticles: an eco-friendly tool in the fight against *Plasmodium falciparum* and its vector *Anopheles stephensi?* Parasitology Research 01/2015; DOI:10.1007/s00436-015-4638-1 **(Impact factor: 2.098)**

268. **Murugan K,** Aamina Labeeba M, Panneerselvam C, Dinesh D, Suresh U, Subramaniam J, Madhiyazhagan P, Hwang JS, Wang L, Nicoletti M, Benelli G* (2015) *Aristolochia indica* green-synthesized silver nanoparticles: a

sustainable control tool against the malaria vector *Anopheles stephensi*?. Research in Veterinary Science, doi: 10.1016/j.rvsc.2015.08.001 **(Impact factor: 1.409)**

269. Madhiyazhagan P, **Murugan K,** Naresh Kumar A, Nataraj T, Dinesh D, Panneerselvam C, Subramaniam J, Mahesh Kumar P, Suresh U, Roni M, Nicoletti M, Alarfaj AA, Higuchi A, Munusamy MA, Benelli G* (2015) *Sargassum muticum*-synthetized silver nanoparticles: an effective control tool against mosquito vectors and bacterial pathogens Parasitology Research, doi: 10.1007/s00436-015-4671-0 **(Impact factor: 2.098)**.

270. **Murugan K,** Dinesh D, Paulpandi M, Dakhellah Meqbel Althbyani A, Subramaniam J, Madhiyazhagan P, Wang L, Suresh U, Mahesh Kumar P, Mohan J, Rajaganesh R, Wei H, Kalimuthu K, Parajulee MN, Mehlhorn H, Benelli G* (2015) Nanoparticles in the fight against mosquito-borne diseases: bioactivity of *Bruguiera cylindrica*-synthesized nanoparticles against dengue virus DEN-2 (in vitro) and its mosquito vector *Aedes aegypti* (Diptera: Culicidae) Parasitology Research, doi: 10.1007/s00436-015-4676 **(Impact factor: 2.098)**.

271. Subramaniam J, **Murugan K,** Panneerselvam C, Kovendan K, Madhiyazhagan P, Mahesh Kumar P, Dinesh D, Chandramohan B, Suresh U, Nicoletti M, Higuchi A, Hwang JS, Kumar S, Alarfaj AA, Munusamy MA, Messing RH, Benelli G* (2015). Eco-friendly control of malaria and arbovirus vectors using the mosquitofish *Gambusia affinis* and ultra-low dosages of *Mimusops elengi*-synthesized silver nanoparticles: towards an integrative approach? Environmental Science and Pollution Research, doi: 10.1007/s11356-015-5253-5. **(Impact factor: 2.828).**

272. **Murugan K,** Dinesh D, Jenil Kumar P, Panneerselvam C, Subramaniam J, Madhiyazhagan P, Suresh U, Nicoletti M, Alarfaj AA, Munusamy MA, Higuchi A, Mehlhorn H, Benelli G* (2015) *Datura metel-synthesized silver nanoparticles magnify predation of dragon98-fly nymphs against the malaria vector Anopheles stephensi*.n Parasitology Research, doi: 10.1007/s00436-015-4710-x **(Impact factor: 2.098).**

273. **Murugan K,** Vadivalagan C, Karthika P, Panneerselvam P, Paulpandi M, Subramaniam J, Wei H, Al Thabiani A, Saleh Alsalhi M, Devanesan S, Nicoletti M, Paramasivan R, Parajulee MN, Benelli G (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance Parasitology Research, doi: 10.1007/s00436-015-4726 **(Impact factor: 2.098).**

274. Sivan Padma Priya, Akon Higuchi, Salem Abu Fanas M, ok Pooi Lin, Vasantha Kumari NeelaPM Sunil,TR Saraswathi**, Kadarkarai Murugan,** Abdullah A Alarfaj, Murugan A Munusamy and Suresh Kumar (2015) Odontogenic epithelial stem cells: hidden sources Laboratory Investigation (2015) 00, 1–9. doi:10.1038/labinvest.2015.108; Nature Group Publications **(Impact factor: 4.857).**

275. Akon Higuchi, Qing-Dong Ling, de S. Suresh Kumar, Yung Chang, Abdullah A. Alarfaj, Murugan A. Munusamy, **Kadarkarai Murugan,**Shih-Tien Hsui and Akihiro Umezawab. (2015) Physical cues of cell culture materials lead the direction of differentiation lineages of pluripotent stem cells. Journal of Materials Chemistry B. DOI: 10.1039/c5tb01276g (This journal is © The Royal Society of Chemistry 2015). **(Impact factor: 4.726).**

276. Naresh Kumar Arjunan, **Murugan Kadarkarai**, Shobana Kumar, Madhiyazhagan Pari, Nataraj Thiyagarajan, C. Thomas Vincent and Donald R. Barnard (2015) Factors influencing the spatial distribution of *Anopheles* larvae in Coimbatore District, Tamil Nadu, India. Acta Tropica 152: 121–130. **(Impact factor: 2.270).**

277. **Kadarkarai Murugan**, Palanimuthu Aruna, Chellasamy Panneerselvam, Pari Madhiyazhagan, Manickam Paulpandi, Jayapal Subramaniam, Rajapandian Rajaganesh, Hui Wei, Mohamad Saleh Alsalhi, Sandhanasamy Devanesan, Marcello Nicoletti, Ban Syuhei, Angelo Canale, Giovanni Benelli (2015) Fighting arboviral diseases: low toxicity on mammalian cells, dengue growth inhibition (*in vitro*), and mosquitocidal activity of *Centroceras clavulatum*-synthesized silver nanoparticles. Parasitology Research DOI 10.1007/s00436-015-4783-6 **(Impact Factor: 2.09)**

278. Peng I-C, Yeh C-C, Lu Y-T, Muduli S, Ling Q-D, Alarfaj AA, Munusamy MA, Kumar SS, Murugan K, Lee H-c, Chang Y, Higuchi A, (2015) Continuous harvest of stem cells via partial detachment from thermoresponsive nanobrush surfaces, Biomaterials J. Biomaterials.2015.10.039. **(Impact Factor 8.387).**

279. Panneerselvam C, **Murugan K,** Roni M, Aziz AT, Suresh U, Rajaganesh R, adhiyazhagan P, Subramaniam J, Dinesh D, Nicoletti M, Higuchi A, Alarfaj AA, Munusamy MA, Kumar S, Desneux N, Benelli G (2015) Fern-synthesized nanoparticles in the fight against malaria: LC/MS analysis of *Pteridium aquilinum* leaf extract and biosynthesis of silver nanoparticles with high mosquitocidal and antiplasmodial activity. *Parasitology Research*, doi: 10.1007/s00436-015-4828-x

280. Chandramohan B, **Murugan K,** Panneerselvam C, Madhiyazhagan P, Chandirasekar R, Dinesh D, Mahesh Kumar P, Kovendan K, Suresh U, Subramaniam J, Rajaganesh R, Aziz AT, Syuhei B, Saleh Alsalhi M, Devanesan S, Nicoletti M, Wei H, Benelli G (2016) Characterization and mosquitocidal potential of neem cake-synthesized silver nanoparticles: genotoxicity and impact on predation efficiency of mosquito natural enemies. *Parasitology Research*, doi: 10.1007/s00436-015-4829-9

281. Subramaniam J and **Murugan K** (2015) Evaluate the insecticidal activity of some aromatic and medicinal plants extracts against the agricultural, medical and veterinary important pest and vectors, *Plutella xylostella*,*Anopheles stephensi* and *Musca domestica*, Zool. Surv. India Zoology for Future Education and Research : 205-213, 2015.

282. Panneerselvam C, **Murugan K,** Roni M, Aziz AT, Suresh U, Rajaganesh R, Madhiyazhagan P, Subramaniam J, Dinesh D, Nicoletti M, Higuchi A, Alarfaj AA, Munusamy MA, Kumar S, Desneux N, Benelli G (2015) Fern-synthesized nanoparticles in the fight against malaria: LC/MS analysis of *Pteridium aquilinum* leaf extract and biosynthesis of silver nanoparticles with high mosquitocidal and antiplasmodial activity. *Parasitology Research*, doi: 10.1007/s00436-015-4828-x

283. Siva Kamalakannan, Ponnan Arumugam and **Kadarkarai Murugan** (2015) Mosquitocidal Activity of Spinosad against the Dengue Vector, *Aedes aegypti*. International Journal of Current Research in Biosciences and Plant Biology ISSN: 2349-8080 Volume 2 Number 12 (December-2015) pp.47-52

284. **Murugan** Chandrasekar Raman · C Panneerselvam · P Madhiyazhagan · J Subramanium · D Dinesh · Jiang-Shiou Hwang · Jiang Wei · Mohamad Saleh

285. Alsalhi · S Devanesan (2015) Nano-Insecticides for the Control of Human and Crop Pests. **In:** Short Views on Insect Genomics and Proteomics: Insect Proteomics, Edited by Chandrasekar Rama, Marian R. Goldsmith, Tolulope A. Agunbiade, 01/2016: chapter 10: pages 229-251; Springer International Publishing Switzerland., ISBN: 978-3-319-24242-2

286. Jayapal Subramaniam Kadarkarai Murugan (2015) Evaluate the insecticidal activity of some aromatic and medicinal plants extracts against the agricultural, medical and veterinary important pest and vectors, *Plutella xylostella*, *Anopheles stephensi* and *Musca domestica* Zool. Surv. India Zoology for Future Education and Research : 205-213, 2015; 01/2015

287. Chandramohan B, **Murugan K,** Panneerselvam C, Madhiyazhagan P, Chandirasekar R, Dinesh D, Mahesh Kumar P, Kovendan K, Suresh U, Subramaniam J, Rajaganesh R, Aziz AT, Syuhei B, Saleh Alsalhi M, Devanesan S, Nicoletti M, Wei H, Benelli G (2016) Characterization and mosquitocidal potential of neem cake-synthesized silver nanoparticles: genotoxicity and impact on predation efficiency of mosquito natural enemies. *Parasitology Research*, doi: 10.1007/s00436-015-4829-9.

288. Jayapal Subramaniam, **Kadarkarai Murugan,** Chellasamy Panneerselvam, Kalimuthu Kovendan, Pari Madhiyazhagan, Devakumar Dinesh, Palanisamy Mahesh Kumar, Balamurugan (2016). Multipurpose effectiveness of *Couroupita guianensis* synthesized gold nanoparticles: high antiplasmodial potential, field efficacy against malaria vectors and synergy with *Aplocheilus lineatus* predators.

289. Marimuthu Govindarajan, Mohan Rajeswary, S.L. Hoti b, **Kadarkarai Murugan**, Kalimuthu Kovendan, Subramanian Arivoli , Giovanni Benelli (2016). *Clerodendrum chinense*-mediated biofabrication of silver nanoparticles: Mosquitocidal potential and acute toxicity against non-target aquatic organisms. Journal of Asia-Pacific Entomology 19 (2016) 51–58.

290. Hongjiao Cai , Yan Bai, Hui Wei, Shuo Lin, Yixin Chen, Houjun Tian , Xiaojun Gu, **Kadarkarai Murugan** (2016) Effects of tea saponin on growth and development, nutritional indicators, and hormone titers in diamondback moths feeding on different host plant species. Pesticide Biochemistry and Physiology **Impact factor .612)** 2016 131, 53-59.

291. Saravanan Thangavel, Manickam Paulpandi, Holger B. Friedrich, **Kadarkarai Murugan**, Kalva Sukesh and Adam A. Skelton (2016) Synthesis, Characterization, Antiproliferative and Molecular Docking Study of New Half Sandwich Ir(III), Rh(III) and Ru(II) Complexes. Journal of Inorganic biochemistry (in press) **(Impact factor 3.444).**

292. Chin-Chen Yeh; Saradaprasan Muduli; I-Chia Peng; Yi-Tung Lu; Qing-Dong Ling; Abdullah A. Alarfaj; Murugan A. Munusamy; S. Suresh Kumar; **Kadarkarai Murugan**; Da-Chung Chen; Hsin-chung Lee; Yung Chang; Akon Higuchi (2016). Data of continuous harvest of stem cells via partial detachment from thermoresponsive nanobrush surfaces. Data in Brief Data Brief. 2016 Jan 13;6:603-8. doi: 10.1016/j.dib.2015.12.056. eCollection 2016 Mar. (elesvier) (impact factor 0.212).

293. Krishnamoorthy Kavithaa, Manickam Paulpandi, Thondhi Ponraj, **Kadarkarai Murugan**, Sundaravadivelu Sumathi (2016) Induction of Intrinsic Apoptotic pathway in Human Breast Cancer (MCF-7) Cells through facile Biosynthesized Zinc Oxide Nanorods. ***Karbala International Journal of Modern Science. (Elesvier)*** (*Article in Press*).

294. Hongjiao Cai , Yan Bai, Hui Wei, Shuo Lin, Yixin Chen, Houjun Tian , Xiaojun Gu, **Kadarkarai Murugan** (2016) Effects of tea saponin on growth and development, nutritional indicators, and hormone titers in diamondback moths feeding on different host plant species. Pesticide Biochemistry and Physiology 2016 131, 53-59.

295. **Kadarkarai Murugan**, Jaganathan Anitha, Devakumar Dinesh, Marcello Nicoletti, Balamurugan Chandramohan, Jayapal Subramaniam, Udaiyan Suresh, Rajapandian Rajaganesh, Manickam Paulpandi, Chitravel Vadivalagan, Lan Wang, Jiang Shiou Hwang, Hui Wei, Mohamad Saleh Alsalhi, Sandhanasamy Devanesan, Suresh Kumar, Kannaiyan Pugazhendy (2016) Biosynthesis of silver nanoparticles using chitosan from crab shells: implications for mosquito vector control. Aquatic Toxicology. (Under Review).

296. **Kadarkarai Murugan**, Jiang Wei, Marcello Nicoletti, Devakumar Dinesh, Balamurugan Chandramohan, Samidoss Christina Mary, Manickam Paulpandi, Jayapal Subramaniam, Chitravel Vadivalagan, Chellasamy Paneerselvam, Hui Wei, Mohamad Saleh Alsalhi, Sandhanasamy Devanesan, (2016). Interference of magnetonanoparticle, *spirillum gryphiswaldense* on the antivectorial, antimalarial and antiviral properties. (Under Review).

297. **Kadarkarai Murugan**, Anitha Jaganathan, Udaiyan Suresh, Rajapandian Rajaganesh, Chellasamy Panneerselvam, Jiang-Shiou Hwang, Li- Chun Tseng, Kandasamy Kalimuthu, Mohamad Saleh Alsalhi, Sandhanasamy Devanesan, Marimuthu Govindarajan, Thabiani Aziz Al, Marcello Nicoletti (2016) Chitosan-mediated silver nanoparticles using crab shells against coastal malaria vector *Anopheles sundaicus* and impact on predation efficiency of mosquito natural enemies. BioControl (Under Review).

298. Anitha Jeganathan, Kadarkarai Murugan, Chellasamy Panneerselvam, Pari Madhiyazhagan, Devakumar Dinesh, Chithravel Vadivalagan, Al Thabiani Aziz, Balamurugan Chandramohan, Udaiyan Suresh, Rajapandian Rajaganesh, Jayapal Subramaniam, Marcello Nicoletti, Akon Higuchi, Abdullah A. Alarfaj, Murugan A. Munusamy, Suresh Kumar, Giovanni Benelli (2016) Earthworm-mediated synthesis of silver nanoparticles: a potent tool against hepatocellular carcinoma, *Plasmodium falciparum* parasites and malaria mosquitoes. Parasitology International, 65: 276–284

299. **Kadarkarai Murugan**, Giovanni Benelli, Chellasamy Panneerselvam, Jayapal Subramaniam, Pari Madhiyazhagan, Marcello Nicoletti, Jiang- Shiou Hwang, Lan Wang, Devakumar Dinesh, Udaiyan Suresh, Mathath Roni (2016) Eco-friendly bio-pesticides from the marine environment: seaweed-mediated synthesis of silver nanoparticles with mosquitocidal, antimalarial and antibacterial activity. Elsevier Nanotechnology in Food Industry (Volume I-X) Book chapter (press)

300. Marcello Nicoletti, Akon Higuchi, Kadarkarai Murugan, Annalisa Lo Iacono, Angelo Canale, Giovanni Benelli (2016) **Neem (*Azadirachta indica*): towards the ideal insecticide?** *Invited Review for Natural Product Research*

301. Giovanni Benelli, Angelo Canale, Akon Higuchi, Kadarkarai Murugan , Roman Pavela, Marcello Nicoletti (2016) The recent outbreaks of Zika virus: Mosquito control faces a further challenge. Asian Pacific Journal of Tropical Disease PP 930-935.

302. Kaliyan Veerakumar, Marimuthu Govindarajan, **Kadarkarai Murugan (2016)** Phyto-synthesized silver nanoparticles: A potent mosquito ovicidal agent. International Journal of Zoology and Applied Biosciences ISSN: 2455-9571 Volume 1, Issue 2, pp: 76-85, 2016

303. **Kadarkarai Murugan**, Chellasamy Panneerselvam, Jayapal Subramaniam, Pari Madhiyazhagan, Jiang-Shiou Hwang, Lan Wang, Devakumar Dinesh, Udaiyan Suresh, Mathath Roni, Akon Higuchi, Marcello Nicoletti, Giovanni Benelli (2016) Eco-friendly drugs from the marine environment: spongeweed-synthesized silver nanoparticles are highly effective on Plasmodium falciparum and its vector Anopheles stephensi, with little non-target effects on predatory copepods Environ Sci Pollut Res DOI 10.1007/s11356-016-6832-

304. Chithravel Vadivalagan, Pushparaj Karthika, **Kadarkarai Murugan**, Chellasamy Panneerselvam, Manickam Paulpandi, Pari Madhiyazhagan, Hui Wei, Al Thabiani Aziz, Mohamad Saleh Alsalhi, Sandhanasamy Devanesan, Marcello Nicoletti, Rajaiah Paramasivan, Devakumar Dinesh, Giovanni Benelli. 2015. Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. *Parasitology Research*. DOI: 10.1007/s00436-015-4847-7. (Impact factor: 2.098)

305. Pushparaj Karthika, Natraj Krishnaveni, Chithravel Vadivalagan, **Kadarkarai Murugan,** Marcello Nicoletti Giovanni Benelli. 2016. DNA barcoding and evolutionary lineage of 15 insect pests of horticultural crops in South India. *Karbala International Journal of Modern Science.* DOI:10.106/j.kijoma.2016.03.006.

306. Hanem Khater, Nabil Hendawy, Marimuthu Govindarajan, Kadarkarai Murugan, Giovanni Benelli.2016. Photosensitizers in the fight against ticks: safranin as a novel photodynamic fluorescent acaricide to control the camel tick *Hyalomma dromedarii* (Ixodidae). *Parasitology Research*. DOI 10.1007/s00436-016-5136-9.

307. Hui Wei, Hong Chang, Lizhen Zheng, Shuo Lin, Yixin Chen, Houjun Tian, Jianwei Zhao, Yong Chen, Hongjiao Cai, Xiaojun Gu,Kadarkarai Murugan (2016) Identification and expression profiling of pheromone biosynthesis activating neuropeptide (PBAN) in *Chlumetia transversa* (Walker). Biochemistry and Physiology. doi: 10.1016/ j.pestbp. 2016.05.005

308. **Kadarkarai Murugan,** Jaganathan Anitha, Devakumar Dinesh, Udaiyan Suresh, Rajapandian Rajaganesh, Balamurugan Chandramohan, Jayapal Subramaniam, Manickam Paulpandi, Chitravel Vadivalagan, Pandiyan Amuthavalli, Lan Wang, Jiang-Shiou Hwang, Hui Wei, Mohamad Saleh Alsalhi, Sandhanasamy Devanesan, Suresh Kumar, Kannaiyan Pugazhendy, Akon Higuchi, Marcello Nicoletti, Giovanni Benelli (2016) Fabrication of nano-mosquitocides using chitosan from crab shells: Impact on nontarget organisms in the aquatic environment. Environ Sci Pollut Res DOI 10.1007/s11356-016-6832-

309. Alaa Sulaiman Alsobhi, Al Thbiani Aziz, Khalid Al-Ghamdi, Jazem Abdullah Mahyoub, Najat Ali Khatter, Shalini Saggu, Hasibur Rehman, Chellasamy Panneerselvam, Kadarkarai Murugan, Akon Higuchi, Marcello Nicolett, Angelo Canale, Giovanni Benelli, Slow release formulations of *Bacillus thuringiensis israelensis* (AM 65-52) and spinosyns: effectiveness against the West Nile vector Culex pipiens in Saudi Arabia. Asian Pacific Journal of Tropical Disease, Volume 6, Issue 7, July 2016, Pages 533-538

310. Savariar Vincent, Kalimuthu Kovendan, Balamurugan Chandramohan, Siva Kamalakannan, Palanisamy Mahesh Kumar, Chellamuthu Vasugi, Cheruparambath Praseeja, Jayapal Subramaniam, Marimuthu Govindarajan, **Kadarkarai Murugan**, Giovanni Benelli, Swift Fabrication of Silver Nanoparticles Using *Bougainvillea glabra*: Potential Against the

Japanese Encephalitis Vector, *Culex tritaeniorhynchus Giles* (Diptera: Culicidae). J Clust Sci (2017) 28: 37.

311. **Kadarkarai Murugan**, Chellasamy Panneerselvam, Jayapal Subramaniam, Pari Madhiyazhagan, Jiang-Shiou Hwang, Lan Wang, Devakumar Dinesh, Udaiyan Suresh, Mathath Roni, Akon Higuchi, Marcello Nicoletti, Giovanni Benelli (2016) Eco-friendly drugs from the marine environment: spongeweed-synthesized silver nanoparticles are highly effective on Plasmodium falciparum and its vector Anopheles stephensi, with little non-target effects on predatory copepods Environ Sci Pollut Res DOI 10.1007/s11356-016-6832

312. **Kadarkarai Murugan,** Jaganathan Anitha, Devakumar Dinesh, Udaiyan Suresh, Rajapandian Rajaganesh, Balamurugan Chandramohan, Jayapal Subramaniam, Manickam Paulpandi, Chitravel Vadivalagan, Pandiyan Amuthavalli, Lan Wang, Jiang-Shiou Hwang, Hui Wei, Mohamad Saleh Alsalhi, Sandhanasamy Devanesan, Suresh Kumar, Kannaiyan Pugazhendy, Akon Higuchi, Marcello Nicoletti, Giovanni Benelli (2016) Fabrication of nano-mosquitocides using chitosan from crab shells: Impact on nontarget organisms in the aquatic environment. Ecotoxicology and Environmental Safety. Ecotoxicol Environ Saf. 2016 Oct;132:318-28. doi: 10.1016/j.ecoenv.2016.06.021. Epub 2016 Jun 24.

313. Savariar Vincent, Kalimuthu Kovendan, Balamurugan Chandramohan, Siva Kamalakannan, Palanisamy Mahesh Kumar, Chellamuthu Vasugi, Cheruparambath Praseeja, Jayapal Subramaniam, Marimuthu Govindarajan, **Kadarkarai Murugan**, Giovanni Benelli, (2016). Swift Fabrication of Silver Nanoparticles Using *Bougainvillea glabra*: Potential Against the Japanese Encephalitis Vector, *Culex tritaeniorhynchus* Giles (Diptera: Culicidae). Parasitology Resarch, DOI 10.1007/s10876-016-1038-3

314. Priya Anbazhagan • **Kadarkarai Murugan**, • Anitha Jaganathan • Vasu Sujitha • Christina Mary Samidoss • Sudalaimani Jayashanthani • Pandian Amuthavalli • Akon Higuchi • Suresh Kumar • Hui Wei • Marcello Nicoletti• Angelo Canale • Giovanni Benelli (2016) Mosquitocidal, Antimalarial and Antidiabetic Potential of Musa paradisiaca-Synthesized Silver Nanoparticles: In Vivo and In Vitro Approaches. J Clust Sci DOI 10.1007/s10876-016-1047-2

315. AlSalhi MS, Devanesan S, Alfuraydi AA, Vishnubalaji R, Munusamy MA, Murugan K, Nicoletti M, Benelli G (2016). Green synthesis of silver nanoparticles using Pimpinella anisum seeds: antimicrobial activity and cytotoxicity on human neonatal skin stromal cells and colon cancer cells. International Journal of Nanomedicine (press).

316. Akon Higuchi, S. Suresh Kumare, Qing-Dong Ling, Abdullah A Alarfaj, Murugan A. Munusamy, Kadarkarai Murugan, Shih-Tien Hsu, Giovanni Benelli, Akihiro Umezawa (2017). Polymeric design of cell culture materials that guide the differentiation of human pluripotent stem cells. ***Progress in Polymer Science***, 65, 83-126. ***(impact factor 25.766).***

317. Kadarkarai Murugan, Jiang Wei, Mohamad Saleh Alsalhi· Marcello Nicoletti, Devakumar Dinesh, Jayapal Subramaniam, Balamurugan Chandramohan[1]· Manickam Paulpandi[1] Chellasamy Paneerselvam, Chithravel Vadivalagan, Hui Wei, Samidoss Christina Mary, Amuthavalli Pandiyan· Jaganathan Anitha, Sandhanasamy Devanesan, Akon Higuchi¸ Suresh Kumar¸ Al Thabiani Aziz¸ Giovanni Benelli (2016) Interference of magneto-nanoparticle, *spirillum gryphiswaldense* on the antivectorial, antimalarial and antiviral properties Journal of Bioresource Technology (communicated).

318. Kadarkarai Murugan· Devaraj Nataraj, Jaganathan Anitha, Devakumar Dinesh, Sudalaimani Jayashanthini, Christina Mary Samidoss, Manickam Paulpandi, Chellasamy Panneerselvam, Jayapal Subramaniam, Al Thabiani Aziz, Marcello Nicoletti (2016). Fabrication and characterization of graphene quantum dots as nano-mosquitocides, against malarial vector *Anopheles stephensi*: its impact on MCF 7 cells, human erythrocytes and non-target organism in the aquatic environment International Journal of Nanomedicine (communicated).

319. Giovanni Benelli, Balamurugan Chandramohan, **Kadarkarai Murugan**, Pari Madhiyazhagan, Kalimuthu Kovendan, Chellasamy Panneerselvam, Devakumar Dinesh, Govindarajan Marimuthu, Akon Higuchi, Chiara Toniolo, Angelo Canale, Marcello Nicoletti, Neem cake as a promising larvicide and adulticide against the rural malaria vector Anopheles culicifacies (Diptera: Culicidae): a HPTLC fingerprinting approach, Natural Product Research, 14;18(11):2566-2575. doi: 10.1016/j.celrep.2017.02. 061.

320. Pushparaj Karthika, Natraj Krishnaveni, Chithravel Vadivalagan, **Kadarkarai Murugan**, Marcello Nicolett, Giovanni Benelli, (2016) DNA barcoding and evolutionary lineage of 15 insect pests of horticultural crops in South India, Karbala International Journal of Modern Science Volume 2, Issue 3, September 2016, Pages 156–168

321. Padma Priya Sivan, Sakinah Syed, Pooi-Ling Mok, Akon Higuchi, Kadarkarai Murugan, Abdullah A. Alarfaj, Murugan A. Munusamy,Rukman Awang Hamat, Akihiro Umezawa, and Suresh Kumar (2016). Stem Cell Therapy for Treatment of Ocular Disorders Stem Cells International, Volume 2016 (2016), Article ID 8304879, 18 pages;http://dx.doi.org/ 10.1155 /2016/8304879.

322. **Anitha, J,** Murugan K, et al., (2016) In vivo pretreatment of *Eudrilus eugeniae* powder attenuates b-adrenoceptor toxicity mediated by isoproterenol in rat model, The Journal of Basic & Applied Zoology (2016)

323. J. Narenkumar, J. Madhavan, M. Nicoletti, G. Benelli, **K. Murugan**, A. Rajasekar (2016). Role of bacterial plasmid on biofilm formation and its influence on corrosion of engineering materials. Journal of Bio and Tribo Corrosion. Doi. 10.1007/s40735-016-0054-z

324. Sekar Dinesh Kumar, Ganesan Singaravelu, **Kadarkarai Murugan**, Singaravelu Ajithkumar Karthikeyan Sivashanmugam, Marcello Nicoletti and Giovanni Benelli (2016) *Aegiceras corniculatum*-Mediated Green Synthesis of Silver Nanoparticles: Biophysical Characterization and Cytotoxicity on Vero Cells, Journal of Cluster Science doi:10.1007/ s10876-016-1086-8.

325. Sekar Dinesh Kumar, Ganesan Singaravelu, **Kadarkarai Murugan**, Singaravelu Ajithkumar Karthikeyan Sivashanmugam, Marcello Nicoletti and Giovanni Benelli (2016) Mangrove-mediated green synthesis of silver nanoparticles with high HIV-1 reverse transcriptase inhibitory potential" Journal of Cluster Science, DOI: 10.1007/s10876-016-1086-8

326. **Murugan K,** Nataraj D, Jaganathan A, Dinesh D, Jayashanthini S, Samidoss CM, Paulpandi M, Panneerselvam C, Subramaniam J, Aziz AT, Nicoletti M, Kumar S, Higuchi A, Benelli G* (2016) Nanofabrication of graphene quantum dots with high toxicity against malaria mosquitoes, *Plasmodium falciparum* and MCF-7 cancer cells: impact on predation of non-target tadpoles, odonate nymphs and mosquito fishes. *Journal of Cluster Science*, doi: 10.1007/s10876-016-1107-7 (Invited Research Article, Special Issue "*Applications of green-synthesized nanoparticles in pharmacology, parasitology and entomology*", Editors: C. Lukehart and G. Benelli). **(Impact Factor 1.302).**

327. Poopathi S, **Murugan K**, Selvakumari J, Mani C, Bala P, de Britto RL, Pattnaik S, Goud S and Prabakaran K (2016) Vermicompost Useful for Screening Mosquitocidal Bac- teria-A Novel Approach., J Microb Pathophysiol Pathogenesis 2016, 2: 005.

328. Anila P. Ashokan, Manickam Paulpandi, Devakumar Dinesh, Kadarkarai Murugan, Chithravel Vadivalagan, Giovanni Benelli. (2016). Toxicity on Dengue Mosquito Vectors Through Myristica fragrans-Synthesized Zinc Oxide Nanorods, and Their Cytotoxic Effects on Liver Cancer Cells (HepG2). J Clust Sci DOI 10.1007/s10876-016-1075-y. **(Impact Factor 1.302)**

329. Siva Kamalakannan, Sivapunyam Ananth, **Murugan K**, Kalimuthu Kovendan, Marimuthu Ramar, Ponnan Arumugam, Balamurugan Chandramohan and Vellingiri Balachandar (2016). **Bio Fabrication of Silver Nanoparticle from *Argemone mexicana* for the Control of *Aedes albopictus*and their Antimicrobial Activity.** Current Pharmaceutical Biotechnology (Bentham Science) (press). VOLUME: 17 DOI: 10.2174/ 1389201017666161026093716 **(Impact Factor 1.802)**

330. **Murugan K**, Jiang Wei, Mohamad Saleh Alsalhi, Marcello Nicoletti, Manickam Paulpandi, Christina Mary Samidoss, Devakumar Dinesh, Balamurugan Chandramohan, Chellasamy Paneerselvam5, Jayapal Subramaniam, Chithravel Vadivalagan, Hui Wei, Pandiyan Amuthavalli, Anitha Jaganathan, Sandhanasamy Devanesan, Akon Higuchi, Suresh Kumar, Al Thabiani Aziz, Devaraj Nataraj, Baskaralingam Vaseeharan, Angelo Canale, Giovanni Benelli (2016) Magnetic nanoparticles are highly toxic to chloroquine-resistant *Plasmodium falciparum*, dengue virus (DEN-2) and their mosquito vectors. Parasitology Research (press). **(Impact Factor 2.027)**

331. Sathishkumar K, **Murugan K,** Benelli G and Rajasekar A (2016) Bioreduction of hexavalent chromium by *Pseudomonas stutzeri* L1 and *Acinetobacter baumannii* L2. Annals of Microbiology (Press) (**Impact Factor 1.2)**

332. Dinakaran P. and **Murugan K**(2016) Electrochemical deposition of carbon materials incorporated nickel sulfide composite as counter electrode for dye-sensitized solar cells IONICS (press). **(Impact Factor 2.119)**

333. **Murugan K** and Sivaramakrishnan S. (2016). Isolation of Chrysin (5, 7-Dihydroxy flavone) producing endophytic fungi from *Passiflora incarnata* L. leaves and evaluation of its biological activities. Annals of Microbiology (press). **(Impact Factor 1.232).**

334. Anu K, Singaravelu G, **Murugan K** and G Benelli. (2016). Green-Synthesis of Selenium Nanoparticles Using Garlic Cloves (*Allium sativum*): Biophysical Characterization and Cytotoxicity on Vero Cells. Journal of Cluster Science [Springer] DOI 10.1007/s10876-016-1123-7

335. Dinesh Kumar S, Singaravelu G, Ajithkumar S, **Murugan K**, Nicoletti M and G Benelli. (2016). Mangrove-mediated green synthesis of silver nanoparticles with high HIV-1 reverse transcriptase inhibitory potential. Journal of Cluster Science [Springer] DOI 10.1007/s10876-016-1100-1.

336. Dinesh Kumar S, Singaravelu G, **Murugan K**, Ajithkumar S, Karthikeyan S, Nicoletti M and G Benelli. (2016). *Aegiceras corniculatum*-mediated green synthesis of silver nanoparticles: biophysical characterization and cytotoxicity on Vero cells. Journal of Cluster Science [Springer] DOI 10.1007/s10876-016-1086-8.

337. Sandhanasamy Devanesan, Mohamad S. AlSalhi1, Radhakrishnan Vishnubalaji Akram A. Alfuraydi, Nehad M. Alajez, Musaad Alfayez, **Kadarkarai Murugan**, Shaban R. M. Sayed, Marcello Nicoletti, Giovanni Benelli (2016) Rapid Biological Synthesis of Silver Nanoparticles Using Plant Seed Extracts and Their Cytotoxicity on Colorectal Cancer Cell Lines J Clust Sci DOI 10.1007/s10876-016-1134-4

338. Arun Prasad Murthy,Theerthagiri J, Madhavan Jagannathan and **Murugan Kadarkarai (2016)** Highly Active MoS2/Carbon Electrocatalysts for Hydrogen Evolution Reaction – An Insight into the Role of Internal Resistance and Roughness Factor on Tafel slope (2016) *Phys. Chem. Chem. Phys.*, DOI: 10.1039/C6CP07416B.

339. Pushparaj Karthika and **Kadarkarai Murugan** (2016). Contrasting genetic diversity and intra-population polymorphism of the invasive pest *Henosepilachna vigintioctopunctata* (Coleoptera, Coccinellidae): A DNA barcoding approach. Journal of Asia-Pacific Entomology. 10.1016/j.aspen. 2016.11.011

340. Chandrakasan Gobinath, Seetharaman Prabukumar, Gnanasekar Sathishkumar, **Kadarkarai Murugan** and Sivaperumal Sivaramakrishnan (2017). Sustainable synthesis of metal nanoparticles using *Xenorhabdus stockiae* KT835471 for their antimicrobial and anticancer activities. Artificial Cells, Blood Substitutes, and Biotechnology DOI: 10.1080/21691401.2017. 1282495 To link to this article: http://dx.doi.org/.

341. Venkatraman Pradeepa, Sengottayan Senthil-Nathan, Subbiah Sathish-Narayanan, Selvaraj Selin-Rani, Prabhakaran Vasantha-Srinivasan, Annamalai Thanigaivel, Athirstam Ponsankar, Edward-Sam Edwin, Muthiah

Sakthi-Bagavathy, Kandaswamy Kalaivani, **Kadarkarai Murugan,** Veeramuthu Duraipandiyan, Naif Abdullah Al-Dhabi (2017). Potential mode of action of a novel plumbagin as a mosquito repellent against the malarial vector *Anopheles stephensi*, (Culicidae: Diptera). Pesticide Biochemistry and Physiology 134 (2016) 84–93. **(Impact Factor: 2.388).**

342. Sivaramakrishnan S. **Kadarkarai Murugan (2016).** Isolation of Chrysin (5, 7-Dihydroxy flavone) producing endophytic fungi from *Passiflora incarnata* L. leaves and evaluation of its biological activities. Annals of Microbiology (in press).

343. Mathalaimuthu Baranitharana, Shanmugam Dhanasekarana, Kalimuthu Kovendan, **Kadarkarai Murugan**, Jayapal Gokulakrishn and, Giovanni Benelli (2017) *Coleus aromaticus* leaf extract fractions: A source of novel ovicides, larvicides and repellents against Anopheles, Aedes and Culex mosquito vectors? Process Safety and Environmental Protection 1 0 6 (2 0 1 7) 23–33. **(Impact Factor: 2.078).**

344. Akon Higuchi, S. Suresh Kumar, Da-Chung Chene, Abdullah A. Alarfaj, Murugan A. Munusamy, Giovanni Benelli and **Kadarkarai Murugan (2017)** Smart Biomaterials with Smart Surfaces for Stem Cell Culture. In: RSC Smart Materials No.24, Chapter-8, Smart Materials for Tissue Engineering: Fundamental Principles Edited by Qun Wang © The Royal Society of Chemistry 2017 **(Impact factor 1.428).**

345. Sathishkumar Kuppusamy, Manivannan Sethurajan, **Murugan Kadarkarai, (2017).** Biodecolourization of textile dyes by novel, indigenous *Pseudomonas stutzeri* MN1 and *Acinetobacter baumannii* MN3 Journal of

Environmental Chemical Engineering 5 (2017) 716–724. **(Impact factor 1.428).**

346. Koch Roman Pavelaa, **Kadarkarai Murugan**, Angelo Canale, Giovanni Benelli (2017) *Saponaria officinalis*-synthesized silver nanocrystals as effective biopesticides and oviposition inhibitors against *Tetranychus urticae* Journal of Environmental Chemical Engineering 5 (2017) 716–724. **(Impact factor 1.428).**

347. Suresh U, **Murugan K**, Panneerselvam C, Rajaganesh R, Roni M, Aziz AT, Naji Al-Aoh HA, Trivedi S, Hasibur Rehman H, Kumar S, Higuchi A, Canale A, Benelli G (2017) *Suaeda maritima*-based herbal coils and green nanoparticles as potential biopesticides against the dengue vector *Aedes aegypti* and the tobacco cutworm *Spodoptera litura*. *Physiological and Molecular Plant Pathology*, doi: 10.1016/j.pmpp.2017.01.002. **(Impact Factor: 1.371).**

348. Kuppusamy Chenniappan & **Kadarkari Murugan** (2017) Therapeutic and fertility restoration effects of Ionidium suffruticosum on sub-fertile male albino Wistar rats: effects on testis and caudal spermatozoa, Pharmaceutical Biology, 55:1, 946-957, DOI: 10.1080/13880209.2016.1278453 To link to this article: http://dx.doi.org/10.1080/13880209.2016.1278453 **(Impact factor 1.24).**

349. Srinivasan K, Rajasekar A, Subramanian **K, Murugan** K, Benelli G, Dinakaran K. A (2017). Sensitive Optical Sensor Based on DNA Labeled Si@SiO_2 Core–Shell Nanoparticle for the Detection of Hg^{2+} ions in aqueous solution. Bulletin of Materials Science. Springer **(Impact factor 0.870).**

350. Dibyendu Rakshit, **Kadarkarai Murugan**, Jayanta Kumar Biswas, Kamala Kanta Satpathy, P. Sankar Ganeshe, Santosh Kumar Sarkar (2017). Environmental impact on diversity and distribution of tintinnid (Ciliata:

Protozoa) along Hooghly Estuary, India:A multivariate approach. Regional Studies in Marine Science. http://dx.doi.org/10.1016/ j.rsma.2017. 02.007 **(Impact factor 1.465).**

351. Mathalaimuthu Baranitharan, Shanmugam Dhanasekaranan, Kalimuthu Kovendan, **Kadarkarai Murugan,** Jayapal Gokulakrishnan and Giovanni Benelli (2017). *Coleus aromaticus* leaf extract fractions: A source ofnovel ovicides, larvicides and repellents against Anopheles, Aedes and Culex mosquito vectors? Process Safety and Environmental Protection.http://dx.doi.org/10.1016/j.psep.2016.12.003.
(Impact Factor: 2.078).

352. Hong Reng Lin,, Chao-Wen Heish,, Cheng-Hui Liu1,, Saradaprasan Muduli, Hsing-Fen Li, Akon Higuchi, S. Suresh Kumar, Abdullah A.Alarfaj, Murugan. Munusamy, Shih-Tien Hsu, Da-ChungChen, Giovanni Benelli, **Kadarkarai Murugan,** Nai-ChenCheng, Han-ChowWang & Gwo-JangWu (2017) Purification and differentiation of human adipose-derived stem cells by membrane filtration and membrane migration methods. Scientific Reports | 7:40069 | DOI: 10.1038/srep40069 (Nature Publications).
(Impact factor: 5.228)

353. Parthipan P, Preetham E, Machuca LL, Rahman PK, **Murugan K**, Rajasekar A. (2017). Biosurfactant and Degradative Enzymes Mediated Crude Oil Degradation by Bacterium *Bacillus subtilis* A1. Front Microbiol. 2017 Feb 9;8:193. doi: 10.3389/fmicb.2017.00193. **(Impact Factor : 4.165)**

354. **Murugan, Kadarkarai,** Roni, Mathath · Panneerselvam, Chellasamy · Aziz, Al Thabiani · Suresh, Udaiyan · Rajaganesh, Rajapandian · Aruliah, Rajasekar · Mahyoub, Jazem A., Trivedi, Subrata · Rehman, Hasibur · Naji

Al-Aoh, Hatem Ahmed · Kumar, Suresh, Higuchi, Akon · Vaseeharan, Baskaralingam · Wei, Hui · Senthil-Nathan, Sengottayan · Canale, Angelo, Benelli, Giovanni (2017) *Sargassum wightii*-synthesized ZnO nanoparticles reduce the fitness and reproduction of the ma.laria vector *Anopheles stephensi* and cotton bollworm *Helicoverpa armigera.* Physiological and Molecular Plant Pathology. Jan 2017 **(Impact factor 1.371).**

355. Annamalai Thanigaivel, Sengottayan Senthil-Nathan, Prabhakaran Vasantha-Srinivasan, Edward-Sam Edwin, Athirstam Ponsankar, Selvaraj Selin-Rani, Venkatraman Pradeepa, Muthiah Chellappandian, Kandaswamy Kalaivani, Ahmed Abdel-Megeed Raman, Narayanan, **Kadarkarai Murugan** (2017) Chemicals isolated from Justicia adhatoda Linn reduce fitness of the mosquito, *Aedes aegypti L* Arch. Insect Biochem. Physiol. 2017; 00: e21384 **(Impact Factor: 1.357).**
356. Jayaraman Narenkumar, Punniyakotti Parthipan, Usha Raja Nanthini,Giovanni Benelli, **Kadarkarai Murugan**, Aruliah Rajasekar (2017) Ginger extract as green biocide to control microbial corrosion of mild steel. 3 Biotech. (In press) **(Impact Factor 1. 3).**

357. Prabukumar Seetharaman, Sathishkumar Gnanasekar, Rajkuberan Chandrasekaran, Gobinath Chandrakasan, Murugan **Kadarkarai** & Sivaramakrishnan Sivaperumal (2017) Isolation and characterization of anticancer flavone chrysin (5,7-dihydroxy flavone-producing endophytic fungi from *Passiflora incarnata* L. leaves. Ann Microbiol DOI 10.1007/s13213-017-1263-5.**(Impact Factor:1.232)**
358. **Kadarkarai Murugan** . Jaganathan Anitha . Udaiyan Suresh . Rajapandian Rajaganesh . 6 Chellasamy Panneerselvam . Al Thabiani Aziz . Li-Chun Tseng . 7 Kandasamy Kalimuthu . Mohamad Saleh Alsalhi . Sandhanasamy

Devanesan . Marcello Nicoletti . Santosh Kumar Sarkar Giovanni Benelli . Jiang-Shiou Hwang (2017) Chitosan-fabricated Ag nanoparticles and larvivorous fishes: a novel route to control the coastal malaria vector, *Anopheles sundaicus*? Hydrobiologia DOI 10.1007/s10750-017-3196-1

359. Yeng-MingChen, Li-HuaChen1, Meng-Pei Li1, Hsing-Fen Li, Akon Higuch, S. Suresh Kumar, Qing-Dong Ling, AbdullahA.Alarfaj, MuruganA. Munusamy, YungChang, Giovanni Benelli, **Kadarkarai Murugan** & Akihiro Umezawa (2017) Xeno-free culture of human pluripotent stem cells on oligopeptide-grafted hydrogels with various molecular designs. Scientific Reports | 7:45146 | DOI: 10.1038/srep45146(**Impact factor** 5.228-Nature Publications).

360. Vasu Sujitha, **Kadarkarai Murugan,** Devakumar Dinesh, Amuthvalli Pandiyan, Rajasekar Aruliah, Jiang-Shiou Hwang, Kandasamy Kalimuthu, Chellasamy Panneerselvam, Akon Higuchi, Al Thabiani Aziz, Suresh Kumar, Abdullah A. Alarfaj, Baskaralingam Vaseeharan, Angelo Canale, Giovanni Benelli (2017) Green-synthesized CdS nano-pesticides: toxicity on young instars of malaria vectors and impact on enzymatic activities of the non-target mud crab *Scylla serrata*. Aquatic Toxicology, https://doi.org/10.1016/j.aquatox.2017.04.015.

361. **Kadarkarai Murugan** • Christina Mary Samidoss • Jayaraman Theerthagiri • Chellasamy Panneerselvam • Jagannathan Madhavan • Arualiah Rajasekar • Angelo Canale• Giovanni Benelli (2017). Solution Combustion Synthesis of Hierarchically Structured V2O5 Nanoflakes: Efficacy Against *Plasmodium falciparum*, Plasmodium berghei and the Malaria Vector *Anopheles stephensi,* J Clust Sci DOI 10.1007/s10876-017-1228-7.

362. Sekar Dinesh Kumar, Ganesan Singaravelu, **Kadarkarai Murugan**, Singaravelu Ajithkumar Karthikeyan Sivashanmugam, Marcello Nicoletti and Giovanni Benelli (2017) Green nanosynthesis and functionalization of gold nanoparticles as PTP 1B inhibitors. Journal of Cluster Science (in press) 1.363.

363. Akon Higuchi, S. Suresh Kumar, Giovanni Benelli, Abdullah A. Alarfaj, Murugan A. Munusamy, Akihiko Umezawa, Kadarkarai Murugan (2017) Stem Cell Therapies for Macular Degeneration Disease, Trends in Biotechnology (Cell Press) DOI: http://dx.doi.org/10.1016/j.tibtech.2017.06.016 (Impact Factor: 12.065).

364. Saradaprasan Muduli, Henry Hsin-Chung Lee, Jia-Sin Yang, Ting-Yeh Chen, Akon Higuchi, S. Suresh Kumar,Abdullah A. Alarfaj, Murugan A. Munusamy, Giovanni Benelli, **Kadarkarai Murugan**, Ching-Yuan Liu, Yi-Fan Chen,a Yung Chang,i Brintha Moorthy,j Han-Chow Wang, Shih-Tien Hsu and Qing-Dong Ling (2017) Proliferation and osteogenic differentiation of amniotic fluid-derived stem cells. J. Mater. Chem. B, 2017, 5, 5345—5354. (This journal is © The Royal Society of Chemistry 2017).

365. **Sathishkumar K, Sathiyaraj S, Parthipan P, Akhil A, Murugan K, Rajasekar A.** (2017). Electrochemical decolorization of methyl red by RuO_2-IrO_2-TiO_2 electrode and biodegradation with *Pseudomonas stutzeri* MN1 and *Acinetobacter baumannii* MN3: An integrated approach. **Chemosphere Volume 183**, September 2017, Pages 204-211

366. P. Paulraj, A. Manikandan. Manikandan, K. Pandian , M. K. Moodley, K. Roro, and **K. Murugan** (2017) Solid-State Synthesis of POPD@AgNPs Nanocomposites for Electrochemical Sensors. Journal of Nanoscience and Nanotechnology Vol. 17, 1–9, 2017. doi:10.1166/jnn.2017.15219.

367. Giovanni Benelli & Filippo Maggi & Roman Pavela & **Kadarkarai Murugan** & Marimuthu Govindarajan & Baskaralingam Vaseeharan6 & Riccardo Petrelli & Loredana Cappellacci & Suresh Kumar & Anders Hofer & Mohammad Reza Youssefi & Abdullah A. Alarfaj & Jiang-Shiou Hwang & Akon Higuchi (2017). Mosquito control with green nanopesticides: towards the One Health approach? A review of non-target effects. Environ Sci Pollut Res DOI 10.1007/s11356-017-9752-4.

368. Akon Higuchi, Nien-Ju Ku, Yeh-Chia Tseng, Zhi-Xian Pan Pan, Hsing-Fen Li, Suresh Kumar, Qing-Dong Ling, Yung Chang, Abdullah Alarfaj, Murugan Munusamy, Giovanni Benelli, and **Kadarkarai Murugan** (2017) Stem Cell Therapies for Myocardial Infarction in Clinical Trials: Bioengineering and Biomaterial Aspects" Laboratory Investigations Lab Invest. 2017 Oct;97(10):1167-1179. doi: 10.1038/labinvest.2017.100. Epub 2017 Sep 4.

369. Mariappan, Rajan, , Krishnan, Poorani,, Pradeep Kumar, Periyakaruppan, Mayandi, Jeyanthinath Jeyaraj, M, Ling, Mok Poi, Kumar, S. Suresh, Arulselvan, Palanisamy, , Higuchi, Akon, , Munusamy, Murugan, Arumugam, Ramitha, , Benelli, Giovanni, Kadarkarai, Murugan (2017) Magneto-Chemotherapy for cervical cancer treatment with Camptothecin loaded Fe3O4 functionalized -Cyclodextrin nanovehicle. RSC Advances, published by the Royal Society of Chemistry RSC Advances 73, Page 45885 to 46528

370. P. Parthipan, P. Elumalai, K. Sathishkumar, D. Sabarinathan, **K. Murugan**, G. Benelli and A. Rajasekar, Biosurfactant and enzyme mediated crude oil degradation by *Pseudomonas stutzeri* NA3 and *Acinetobacter baumannii* MN3. 3 Biotech, (**2017**), DOI 10.1007/s13205-017-0902-7 (**In press, IF: 1.361**).

371. Giovanni Benelli, , Luca Buttazzoni , Angelo Canalea , Armando D'Andrea , Paola Del Serrone , Gavino Delrio, Cipriano Foxid , Susanna Mariani , Giovanni Savinie , Chithravel Vadivalagan , Kadarkarai Murugan , Chiara Toniolo , Marcello Nicoletti , Mauro Serafini (2017). Bluetongue outbreaks: Looking for effective control strategies against Culicoides vectors. Research in Veterinary Science., http://dx.doi.org/10.1016/j.rvsc.2017.05.023 Received 16 March 2017

372. Jayaraman Narenkumar, Kuppusamy Sathishkumar, Adikesavan Selvi, Rajagopalan Gobinath, **Kadarkarai Murugan**, Aruliah Rajasekar. (2017). Role of calcium-depositing bacteria Agrobacterium tumefaciens and its influence on corrosion of different engineering metals used in cooling water system. 3 Biotech, 7(6), 374.

373. Periyasamy Senthamarai Selvan, Arulsamy Jebanesan, Jayapal Subramaniam, **Kadarkarai Murugan**, Samivel Kanthammal, Mayakrishnan Vijay, Govindaraj Divya. (2017). Influence of Meteorological Variables on Mosquitoes Breeding in Theni District, Tamilnadu, India. Journal of Mosquito Research. Vol.7, No.18, 142-153.

374. Sekar Vijayakumar, Baskaralingam Vaseeharan, Balasubramanian Malaikozhundan, Mani Divya, Muthukumar Abhinaya, Narayanan Gobi, Attanu Bhattacharyya, Nachimuthu Balashanmugam, Dhan Surmistha, **Kadarkarai Murugan**, Giovanni Benelli. (2017) Ecotoxicity of Musa paradisiaca leaf extract-coated ZnO nanoparticles to the freshwater microcrustacean Ceriodaphnia cornuta. Limnologica-Ecology and Management of Inland Waters. https://doi.org/10.1016/j.limno.2017.09.004

375. Meenu VG Krishnan, **Kadarkarai Murugan.** (2017) Larvicidal potential of purified protease inhibitor from Solanum aculeatissimum Jacq. against Odoiporus longicollis Oliver. International Journal of Advances in Pharmaceutical Sciences. 9(2), 35-42.

376. **Kadarkarai Murugan**, Devakumar Dinesh, Devaraj Nataraj, Jayapal Subramaniam, Pandiyan Amuthavalli, Jagannathan Madhavan, Aruliah Rajasekar, Mariappan Rajan, Kulandhaivel Palani Thiruppathi, Suresh Kumar, Akon Higuchi, Marcello Nicoletti, Giovanni Benelli. (2017) Iron and iron oxide nanoparticles are highly toxic to Culex quinquefasciatus with little non-target effects on larvivorous fishes. Environmental Science and Pollution Research, 1-11.

377. Jayaraman Narenkumar, Kuppusamy Sathishkumar, Raja Kumaresan Sarankumar, **Kadarkarai Murugan**, Aruliah Rajasekar. (2017). An anticorrosive study on potential bioactive compound produced by *Pseudomonas aeruginosa* TBH2 against the biocorrosive bacterial biofilm on copper metal. Journal of Molecular Liquids, 243, 706-713.

378. Arun Prasad Murthy, Jayaraman Theerthagiri, Jagannathan Madhavan, **Kadarkarai Murugan**. (2017). Enhancement of hydrogen evolution activities of low-cost transition metal electrocatalysts in near-neutral strongly buffered aerobic media. Electrochemistry Communications, 83, 6-10.

379. Punniyakotti Parthipan, Raja Kumaresan Sarankumar, Anitha Jaganathan, Pandian Amuthavalli, Ranganathan Babujanarthanam, Pattanathu KSM Rahman, **Kadarkarai Murugan**, Akon Higuchi, Giovanni Benelli, Aruliah Rajasekar. (2017). Biosurfactants produced by *Bacillus subtilis* A1 and *Pseudomonas stutzeri* NA3 reduce longevity and fecundity of Anopheles stephensi and show high toxicity against young instars. Environmental Science and Pollution Research, 1-11.

380. Balan Banumathi, Baskaralingam Vaseeharan, Periyannan Rajasekar, Narayanan Marimuthu Prabhu, Palaniappan Ramasamy, **Kadarkarai Murugan**, Angelo Canale, Giovanni Benelli. (2017). Exploitation of chemical, herbal and nanoformulated acaricides to control the cattle tick, Rhipicephalus (Boophilus) microplus–a review. Veterinary Parasitology, 244, 102-110.

381. **Kadarkarai Murugan**, Udaiyan Suresh, Chellasamy Panneerselvam, Rajapandian Rajaganesh, Mathath Roni, Jiang-Shiou Hwang, Kuppusamy Sathishkumar, Aruliah Rajasekar, Suresh Kumar, Abdullah A Alarfaj, Akon Higuchi, Giovanni Benelli. (2017). Managing wastes as green resources: cigarette butt-synthesized pesticides are highly toxic to malaria vectors with little impact on predatory copepods. Environmental Science and Pollution Research, 1-15.

382. Kandasamy Kalimuthu, Chellasamy Panneerselvam, Chi Chou, Li-Chun Tseng, **Kadarkarai Murugan**, Kun-Hsien Tsai, Abdullah A Alarfaj, Akon Higuchi, Angelo Canale, Jiang-Shiou Hwang, Giovanni Benelli. (2017). Control of dengue and Zika virus vector *Aedes aegypti* using the predatory copepod *Megacyclops formosanus: Synergy* with Hedychium coronarium-synthesized silver nanoparticles and related histological changes in targeted mosquitoes. Process Safety and Environmental Protection, 109, 82-96.

383. Akon Higuchi, S Suresh Kumar, Giovanni Benelli, Abdullah A Alarfaj, Murugan A Munusamy, Akihiko Umezawa, **Kadarkarai Murugan**. (2017). Stem Cell Therapies for Reversing Vision Loss. Trends in Biotechnology. DOI: http://dx.doi.org/10.1016/j.tibtech.2017.06.016

384. Chithravel Vadivalagan, Pushparaj Karthika, **Kadarkarai Murugan**, Chellasamy Panneerselvam, Paola Del Serrone, Giovanni Benelli. (2017). Exploring genetic variation in haplotypes of the filariasis vector Culex quinquefasciatus (Diptera: Culicidae) through DNA barcoding. Acta Tropica, 169, 43-50.

385. Arun Prasad Murthy, Jayaraman Theerthagiri, Kumar Premnath, Jagannathan Madhavan, **Kadarkarai Murugan**. (2017). Single-Step Electrodeposited Molybdenum Incorporated Nickel Sulfide Thin Films from Low-Cost Precursors as Highly Efficient Hydrogen Evolution Electrocatalysts in Acid Medium. The Journal of Physical Chemistry C, 121 (21), pp 11108–11116.

386. Balasubramanian Malaikozhundan, Baskaralingam Vaseeharan, Sekar Vijayakumar, Karuppiah Pandiselvi, Mohamed Ali Rajamohamed

Kalanjiam, **Kadarkarai Murugan**, Giovanni Benelli. (2017). Biological therapeutics of Pongamia pinnata coated zinc oxide nanoparticles against clinically important pathogenic bacteria, fungi and MCF-7 breast cancer cells. Microbial pathogenesis, 104, 268-277.

387. Jeong-Ho Lee, Palanivel Velmurugan, Jung-Hee Park, **Kadarkarai Murugan**, Nanh Lovanh, Yool-Jin Park, Byung-Taek Oh, Perumal Venkatachalam, Giovanni Benelli. (2017). A novel photo-biological engineering method for Salvia miltiorrhiza-mediated fabrication of silver nanoparticles using LED lights sources and its effectiveness against Aedes aegypti mosquito larvae and microbial pathogens. Physiological and Molecular Plant Pathology. (In Press).

388. S Sakinah, Sivan Padma Priya, Sharmilah Kumari, Fatin Amira, K Poorani, Hiba Alsaeedy, Mok Pooi Ling, Hui-Yee Chee, Akon Higuchi, Abdullah A Alarfaj, Murugan A Munusamy, **Kadarkarai Murugan**, Che Norma Mat Taib, Palanisamy Arulselvan, Mariappan Rajan, Vasantha Kumari Neela, Rukman Awang Hamat, Giovanni Benelli, S Suresh Kumar. (2017). Impact of dengue virus (serotype DENV-2) infection on liver of BALB/c mice: A histopathological analysis. Tissue and Cell, 49(1), 86-94 (Impact factor 3.677).

389. Pari Madhiyazhagan, **Kadarkarai Murugan**, Arjunan Naresh Kumar, Thiyagarajan Nataraj, Jayapal Subramaniam, Balamurugan Chandramohan, Chellasamy Panneerselvam, Devakumar Dinesh, Udaiyan Suresh, Marcello Nicoletti, Mohamad Saleh Alsalhi, Sandhanasamy Devanesan, Giovanni Benelli. (2017). One pot synthesis of silver nanocrystals using the seaweed Gracilaria edulis: biophysical characterization and potential against the

filariasis vector Culex quinquefasciatus and the midge Chironomus circumdatus. Journal of Applied Phycology, 29(1), 649-659.

390. S Vijayakumar, B Vaseeharan, B Malaikozhundan, N Gopi, P Ekambaram, R Pachaiappan, P Velusamy, **K Murugan**, G Benelli, R Suresh Kumar, M Suriyanarayanamoorthy. (2017). Therapeutic effects of gold nanoparticles synthesized using Musa paradisiaca peel extract against multiple antibiotic resistant Enterococcus faecalis biofilms and human lung cancer cells (A549). Microbial pathogenesis, 102, 173-183.

391. Pushparaj Karthika, Chithravel Vadivalagan, Aathi Muthusankar, **Kadarkarai Murugan**, Natraj Krishnaveni, Paola Del Serrone, Marcello Nicoletti, Giovanni Benelli. (2017). Methyl linolenate as a feeding stimulant for the 28-spotted potato ladybird, Henosepilachna vigintioctopunctata? A molecular docking approach. Physiological and Molecular Plant Pathology https://doi.org/10.1016/j.pmpp.2017.01.005

392. M Ramar, P Manonmani, P Arumugam, S Kamala Kannan, R Raskin, N Baskaran Erusan, **K Murugan**. (2017). Nano-insecticidal formulations from essential oil (Ocimum sanctum) and fabricated in filter paper on adult of Aedes aegypti and Culex quinquefasciatus. Journal of Entomology and Zoology Studies 5(4): 1769-1774.

393. Arun Prasad Murthy, Jayaraman Theerthagiri, Jagannathan Madhavan, **Kadarkarai Murugan**. (2017). Electrodeposited carbon-supported nickel sulfide thin films with enhanced stability in acid medium as hydrogen evolution reaction electrocatalyst. Journal of Solid State Electrochemistry, 1-10. (Impact factor 2.299)

394. Jazem A Mahyoub, Chellasamy Panneerselvam, **Kadarkarai Murugan**, Mathath Roni, Subrata Trivedi, Marcello Nicoletti, Usama W Hawas, Fekri M Shaher, Muneer A Bamakhrama, Angelo Canale, Giovanni Benelli. (2017). Seagrasses as Sources of Mosquito Nano-Larvicides? Toxicity and Uptake of Halodule uninervis-Biofabricated Silver Nanoparticles in Dengue and Zika Virus Vector Aedes aegypti. Journal of Cluster Science, 28(1), 565-580.

395. **Kadarkarai Murugan**, Anitha Jaganathan, Udaiyan Suresh, Rajapandian Rajaganesh, Sudalaimani Jayasanthini, Akon Higuchi, Suresh Kumar, Giovanni Benelli. (2017). Towards Bio-Encapsulation of Chitosan-Silver Nanocomplex? Impact on Malaria Mosquito Vectors, Human Breast Adenocarcinoma Cells (MCF-7) and Behavioral Traits of Non-target Fishes. Journal of Cluster Science, 28(1), 529-550.

396. Jayaraman Theerthagiri, Jagan Madhavan, **Kadarkarai Murugan**, Christina Mary Samidoss, Suresh Kumar, Akon Higuchi, Giovanni Benelli. (2017). Flower-Like Copper Sulfide Nanocrystals are Highly Effective Against Chloroquine-Resistant Plasmodium falciparum and the Malaria Vector Anopheles stephensi. Journal of Cluster Science, 28(1), 581-594.

397. **Kadarkarai Murugan**, Devakumar Dinesh, Manickam Paulpandi, Jayapal Subramaniam, R Rakesh, Pandiyan Amuthavalli, Chellasamy Panneerselvam, Udaiyan Suresh, Chitravel Vadivalagan, Mohamad Saleh Alsalhi, Sandhanasamy Devanesan, Hui Wei, Akon Higuchi, Marcello Nicoletti, Angelo Canale, Giovanni Benelli. (2017). Mangrove helps: sonneratia alba-synthesized silver nanoparticles magnify guppy fish

predation against Aedes aegypti young instars and down-regulate the expression of envelope (E) gene in dengue virus (Serotype DEN-2). Journal of Cluster Science, 28(1), 437-461.

398. Kandasamy Kalimuthu, Chellasamy Panneerselvam, Chi Chou, Showe-Mei Lin, Li-Chun Tseng, Kun-Hsien Tsai, **Kadarkarai Murugan**, Jiang-Shiou Hwang. (2017). Predatory efficiency of the copepod Megacyclops formosanus and toxic effect of the red alga Gracilaria firma-synthesized silver nanoparticles against the dengue vector Aedes aegypti. Hydrobiologia, 785(1), 359-372.

399. Kuppusamy Sathishkumar, Jayaraman Narenkumar, Jagannathan Madhavan, **Kadarkarai Murugan**, Aruliah Rajasekar. (2017). Electrochemical decolorization and biodegradation of tannery effluent for reduction of chemical oxygen demand and hexavalent chromium. Journal of Water Process Engineering, 20, 22-28.

400. Selvaraj Vimalraj, Subramaniyam Rajalakshmi, Desingh Raj Preeth, Sivasubramanian Vinoth Kumar, Thirumalai Deepak, Venkatraman Gopinath, **Kadarkarai Murugan**, Suvro Chatterjee. (2017) Mixed-ligand copper(II) complex of quercetin regulate osteogenesis and angiogenesis. Materials Science & Engineering C (In Press)

401. Arumugam Ponnan, Kavipriya Ramu , Murugan Marudhamuth , Ramar Marimuthu , Kamalakannan Siva and **Murugan Kadarkarai.** (2017) Antibacterial, antioxidant and anticancer properties of Turbinaria conoides (J. Agardh) Kuetz. Clinical Phytoscience (2017) 3:5 DOI 10.1186/s40816-017-0042-y

402. Arumugam P , Murugan M , Ramar M and **Murugan K.** (2017) In Vivo Evaluation of Antigenotoxic and Anti-Inflammatory Potential of Turbinaria conoides (J. Agardh) Kuetz. International Journal of Drug Development and Research. Int J Drug Dev & Res 2016, 8:4

403. Arumugam P, Murugan M, Kamalakannan S, **Murugan K.** (2017). Determination of Various Bioactive Potential of Stoechospermum marginatum (C. Agardh) Kutzing InVitro. Journal of Analytical & Pharmaceutical Research. 5(4): 00145.

404. Baranitharan M, Dhanasekaran S, **Murugan K**, Kovendan K, Gokulakrishnan J, Jeyasankar A. (2017). Experimental investigations of nagapattinam indigenous medicinal plant extracts against dengue, malaria and filarial disease. International Journal of Zoology and Applied Biosciences. 2(4), 155-161.

405. Arun Prasad Murthy, Jagannathan Madhavana,, Kadarkarai Murugan (2018).Recent advances in hydrogen evolution reaction catalysts on carbon/carbonbased supports in acid media. *Journal of Power Sources*. 398,9-28.

406. Soumita Mitra, Santosh Kumar Sarkar, Pushpanathan Raja, Jayanta Kumar Biswas, Kadarkarai Murugan (2018). Dissolved trace elements in Hooghly (Ganges) River Estuary, India: Risk assessment and implications for management. *Marine Pollution Bulletin.133,402414.*

407. Punniyakotti Parthipan, Punniyakotti Elumalai, Jayaraman Narenkumar, Laura L. Machuca, Kadarkarai Murugan, Obuli P. Karthikeyan, Aruliah Rajasekar (2018).Allium sativum (garlic extract) as a green corrosion inhibitor with biocidal

properties for the control of MIC in carbon steel and stainless steel in oilfield environments. *International Biodeterioration & Biodegradation.*302, 66-73.

408. Karuvelan Murugan, Namasivayam Vasudevan (2018). Intracellular toxicity exerted by PCBs and role of VBNC bacterial strains in biodegradation. *Ecotoxicology and Environmental Safety*. 157, 40-60.
409. A Purandaradas, T Silambarasan, Kadarkarai Murugan, Ranganathan Babujanarthanam, Arumugam Dhanesh Gandhi, Kayal Vizhi Dhandapani, Devipriya Anbumani, P. Kavitha (2018). Development and quantification of biodiesel production from chicken feather meal as a cost-effective feedstock by using green technology. *Biochemistry and Biophysics Reports.*14, 133-139.

410. Pushparaj Karthika, Chithravel Vadivalagan, Durairaj Thirumurugan, Rangaswamy Ravi Kumar, Kadarkarai Murugan, Angelo Canale, Giovanni Benelli (2018). DNA barcoding of five Japanese encephalitis mosquito vectors (*Culex fuscocephala*, *Culex gelidus*, *Culex tritaeniorhynchus*, *Culex pseudovishnui* and *Culex vishnui*). Acta Tropica. 1- 4.

411. Syed Ali, R. Vadivel, Kadarkarai Murugan (2018). Finite time decentralized event-triggered communication scheme for neutral - type Markovian jump neural networks with time varying Delays. *Chinese Journal of Physics.* 315,12-5

412. Krishnan Srinivasan, Kathavarayan Subramanian, Kadarkarai Murugan, Giovanni Benelli, Kannaiyan Dinakaran (2018). Fluorescence quenching of MoS2 nanosheets/DNA/silicon dot nanoassembly: effective and rapid detection of Hg2+ ions in aqueous solution. *Environmental Science and Pollution Research.* 25, 10567–10576.

413. Hanem F. Khater, Ali M. Ali2, Galal A. Abouelella3, Marawan A. Marawa, Marimuthu Govindarajan, Kadarkarai Murugan, Rao Z. Abbas7, Nelissa P. Vaz, and Giovanni Benelli (2018). Toxicity and growth inhibition potential of vetiver, cinnamon and lavender essential oils and their blends against larvae of the sheep blowfly, *Lucilia sericata. international journal of dermatology.* 57, 449-457.

414. Kadarkarai Murugan1, Devakumar Dinesh, Devaraj Nataraj, Jayapal Subramaniam1, Pandiyan Amuthavalli, Jagannathan Madhavan, Aruliah Rajasekar, Mariappan Rajan, Kulandhaivel Palani Thiruppathi, Suresh Kumar, Akon Higuchi, Marcello Nicoletti, Giovanni Benelli (2018). Iron and iron oxide nanoparticles are highly toxic to Culex quinquefasciatus with little non-target effects on larvivorous fishes. *Environ Sci Pollut Res.* 25. 10504–10514.

415. Punniyakotti Parthipan, Raja Kumaresan Sarankumar, Anitha Jaganathan, Pandian Amuthavalli, Ranganathan Babujanarthanam, Pattanathu K. S. M. Rahman, Kadarkarai Murugan, Akon Higuchi, Giovanni Benelli, Aruliah Rajasekar (2018). Biosurfactants produced by Bacillus subtilis A1 and Pseudomonas stutzeri NA3 reduce longevity and fecundity of Anopheles stephensi and show high toxicity against young instars. *Environ Sci Pollut Res.* 25, 10471–10481.

416. Kadarkarai Murugan1, Udaiyan Suresh, Chellasamy Panneerselvam, Rajapandian Rajaganesh, Mathath Roni, Al Thabiani Aziz, Jiang-Shiou Hwang, Kuppusamy Sathishkumar, Aruliah Rajasekar, Suresh Kumar, Abdullah A. Alarfaj, Akon Higuchi, Giovanni Benelli (2018). Managing wastes as green resources: cigarette butt-synthesized pesticides are highly toxic to malaria vectors with little impact on predatory copepods. *Environ Sci Pollut Res.* 25, 10456–10470.

417. Shuo Lin, Yixin Chen, Yan Bai, Hongjiao Cai, Hui Wei, Houjun Tian, Jianwei Zhao, Yong Chen, Guang Yang, Xiaojun Gu, Kadarkarai Murugan (2018). Effect of Tea Saponin-Treated Host Plants on Activities of Antioxidant Enzymes in

Larvae of the Diamondback Moth *Plutella xylostella* (Lepidoptera: Plutellidae). *Environmental Entomology.* 1–6.

418. Ali Thbiani Aziz, Mohammed Ali Alshehri, Chellasamy Panneerselvam, Kadarkarai Murugan, Subrata Trivedi, Jazem A. Mahyoub, Mo'awia Mukhtar Hassan, Filippo Maggi, Stefania Sut, Stefano Dall'Acqua, Angelo Canale, Giovanni Benelli (2018). The desert wormwood (Artemisia herba-alba) – From Arabian folk medicine to a source of green and effective nanoinsecticides against mosquito vectors. *Journal of Photochemistry & Photobiology, B: Biology.* 180, 225-234

419. Kadarkarai Murugan, Jagannathan Madhavan, Christina Mary Samidoss, Chellasamy Panneerselvam, Al Thabiani Aziz, Arumugam Malathi, Aruliah Rajasekar, Amuthavalli Pandiyan, Suresh Kumar, Abdullah A. Alarfaj, Akon Higuchi, Giovanni Benelli (2018). Bismuth Oxyiodide Nanoflakes Showed Toxicity Against the Malaria Vector Anopheles stephensi and In Vivo Antiplasmodial Activity. *Journal of Cluster Science*. 47, 777-780.

420. Priyanka Mondal, Rosivaldo de Alcântara Mendes, M.P. Jonathan, Jayanta Kumar Biswas, Kadarkarai Murugan, Santosh Kumar Sarkar(2018). Seasonal assessment of trace element contamination in intertidal sediments of the meso-macrotidal Hooghly (Ganges) River Estuary with a note on mercury speciation. *Marine Pollution Bulletin*. 127, 117-130.

421. Seoh Wei The, Pooi Ling Mok, Munirah Abd Rashid, Mae-Lynn Catherine Bastion, Normala Ibrahim, Akon Higuchi, Kadarkarai Murugan, Rajan Mariappan, Suresh Kumar Subbiah (2018). Recent Updates on Treatment of Ocular Microbial Infections by Stem Cell Therapy: A Review*. International Journal Of Molecular Sciences*. 24, 13-19.

422. M. Syed Ali, K. Meenakshi, N. Gunasekaran & Kadarkarai Murugan (2018). Dissipativity analysis of discrete-time Markovian jumping neural networks with

time-varying delays. *Journal of Difference Equations and Applications.* 24, 859-871.

423. Jayaraman Narenkumar, Punniyakotti Parthipan, Jagannathan Madhavan, Kadarkarai Murugan, Sreekar Babu Marpu, Anil Kumar Suresh, Aruliah Rajasekar (2018). Bioengineered silver nanoparticles as potent anti-corrosive inhibitor for mild steel in cooling towers. *Environmental Science and Pollution Research.* 25, 5412–5420.

424. Selvaraj Vimalraj, Subramaniyam Rajalakshmi, Desingh Raj Preeth, Sivasubramanian Vinoth Kumar, Thirumalai Deepak, Venkatraman Gopinath, Suvro Chatterjee (2018). Mixed-ligand copper(II) complex of quercetin regulate osteogenesis and angiogenesis. *Materials Science & Engineering C.* 83, 187-194.

425. M. Syed Ali, R. Vadivel, O. M. Kwon, Kadarkarai Murugan (2018). Event Triggered Finite Time *H*∞ Boundedness of Uncertain Markov Jump Neural Networks with Distributed Time Varying Delays. *Neural Processing Letters.* 96, 245-254.

426. Greeshma Murukan, Kavitha CH, Bosco Lawarence, Aswathy JM, K Murugan (2018). Purified Anthocyanin from *Bridelia retusa* (L.) Spreng. as Antioxidant and Antimicrobial: A Medicinal Plant from South Western Ghats, Kerala. *International Journal of Pharma Research and Health Sciences.* 6, 2250-57.

427. Kadarkarai Murugan1, Anitha Jaganathan, Rajapandian Rajaganesh, Udaiyan Suresh, Jagan Madhavan, Sengottayan Senthil-Nathan, Aruliah Rajasekar, Akon Higuchi, Suresh S. Kumar, Abdullah A. Alarfaj, Marcello Nicoletti, Riccardo Petrell, Loredana Cappellacci, Filippo Maggi, Giovanni Benelli (2018). Poly(Styrene Sulfonate)/Poly(Allylamine Hydrochloride) Encapsulation of TiO2 Nanoparticles Boosts Their Toxic and Repellent Activity Against Zika Virus Mosquito Vectors. *J Clust Sci.* 29, 27–39.

428. Jeong-Ho Lee, Palanivel Velmurugan, Jung-Hee Park, Kadarkarai Murugan, Nanh Lovanh, Yool-Jin Park, Byung-Taek Oh, Perumal Venkatachalam, Giovanni Benelli(2018). A novel photo-biological engineering method for Salvia miltiorrhizamediated abrication of silver nanoparticles using LED lights sources and its effectiveness against Aedes aegypti mosquito larvae and microbial pathogens. *Physiological and Molecular Plant Pathology*. 101, 178-186.

429. Kadarkarai Murugan, Mathath Roni, Chellasamy Panneerselvam, Al Thabiani Aziz, Udaiyan Suresh, Rajapandian Rajaganesh, Rajasekar Aruliah, Jazem A. Mahyoub, Subrata Trivedi, Hasibur Rehman, Hatem Ahmed Naji Al-Aoh, Suresh Kumar, Akon Higuchi, Baskaralingam Vaseeharan, Hui Wei, Sengottayan Senthil-Nathan, Angelo Canale, Giovanni Benelli (2018). *Sargassum wightii*-synthesized ZnO nanoparticles reduce the fitness and reproduction of the malaria vector *Anopheles stephensi* and cotton bollworm *Helicoverpa armigera. Physiological and Molecular Plant Pathology. 101,* 202-213.

430. Pushparaj Karthika, Chithravel Vadivalagan, Aathi Muthusankar, Kadarkarai Murugan, Natraj Krishnaveni, Paola Del Serrone, Marcello Nicoletti, Giovanni Benelli (2018). Methyl linolenate as a feeding stimulant for the 28-spotted potato ladybird, Henosepilachna vigintioctopunctata? A molecular docking approach. *Physiological and Molecular Plant Pathology*. 101, 75-84..

431. Udaiyan Suresh, Kadarkarai Murugan, Chellasamy Panneerselvam, Rajapandian Rajaganesh, Mathath Roni, Al Thabiani Aziz, Hatem Ahmed Naji Al-Aoh, Subrata Trivedi, Hasibur Rehman, Suresh Kumar, Akon Higuchi, Angelo Canale, Giovanni Benelli (2018). Suaeda maritima-based herbal coils and green nanoparticles as potential biopesticides against the dengue vector Aedes aegypti and the tobacco cutworm Spodoptera litura. *Physiological and Molecular Plant Pathology*. 101, 225-235.

432. Mohammed Ali Alshehri, Chellasamy Panneerselvam, **Kadarkarai Murugan**, Subrata Trivedi, Jazem A Mahyoub, Mo'awia Mukhtar Hassan, Filippo Maggi, Stefania Sut, Stefano Dall'Acqua, Angelo Canale, Giovanni Benelli. (2018). The desert wormwood (Artemisia herba-alba)–From Arabian folk medicine to a source of green and effective nanoinsecticides against mosquito vectors. Journal of Photochemistry and Photobiology B: Biology. 180, 225-234.

433. Krishnan Srinivasan, Kathavarayan Subramanian, **Kadarkarai Murugan**, Giovanni Benelli, Kannaiyan Dinakaran. (2018). Fluorescence quenching of MoS 2 nanosheets/DNA/silicon dot nanoassembly: effective and rapid detection of Hg 2+ ions in aqueous solution. Environmental Science and Pollution Research, 1-10.

434. Kuppusamy Sathishkumar, Jayaraman Narenkumar, Adikesavan Selvi, **Kadarkarai Murugan**, Ranganathan Babujanarthanam, Aruliah Rajasekar. (2018). Treatment of soak liquor and bioelectricity generation in dual chamber microbial fuel cell. Environmental Science and Pollution Research, 1-7.

435. TC Sung, HF Li, A Higuchi, QD Ling, JS Yang, YC Tseng, CP Pan, AA Alarfaj, MA Munusamy, S Kumar, ST Hsu, **K Murugan**. (2018). Human Pluripotent Stem Cell Culture on Polyvinyl Alcohol-Co-Itaconic Acid Hydrogels with Varying Stiffness Under Xeno-Free Conditions. Journal of visualized experiments: JoVE, 132.

436. A Purandaradas, T Silambarasan, Kadarkarai Murugan, Ranganathan Babujanarthanam, Arumugam Dhanesh Gandhi·Kayal Vizhi Dhandapani, Devipriya Anbumani,,P. Kavitha (2018) Development and quantification of biodiesel production from chicken feather meal as a cost-effective feedstock by using green technology. Biochemistry and Biophysics Reports. Volume 14, July 2018, Pages 133–139.

CHAPTERS CONTRIBUTED TO BOOKS

S. No.	Title	Authors/ Co-authors	Publisher	Year of Publication	ISBN Number
1.	Impact Of Climate Change On The Conservation and Management of Insects with special Reference To Food Security. In: FOOD SECURITY: Issues and Concerns	**Kadarkarai Murugan,** Jayapal Subramaniam, Chellasamy, Panneerselvam and G. Durga Devi	Shanlax Publications., Madurai, India	2013	ISBN No. 978-93-80657
2.	Novel Biopesticides for the Sustainable Management of Mosquito Vectors (Insecta: Diptera: Culicidae).	**K. Murugan,** P. Madhiyazhagan A.Noortheen, T. Nataraj, D. Amerasan, K.Kalimuthu and Jiang- Shiou Hwang	Perspectives in Animal Ecology and Reproduction. Volume-9, Ed., V.Gupta., M/S Daya Publishing House, New Delhi, INDIA	2013	ISBN:978-81-7035-829-9
3.	Larvicidal activities of Spinosad and *Moringa oleifera* seed extract against the non-biting midges *Chironomus kiinesis* (Diptera: Chironomidae).	K. Prabhu, **K. Murugan** and S.Bragadeeswaran	Lambert Academic Publishing Company, India	2013	ISBN:3848415747 9783848415748
4.	Larvicidal Effect of Spinosad and Azadirachtin against Dengue Vector, *Aedes aegypti* (Insecta: Diptera: Culicidae) and *Chironomus kiiensis* (Chironomidae).	P.Madhiyazhagan **K. Murugan,** A.Nareshkumar, T. Nataraj, D. Amerasan K. Kalimuthu and Jiang- Shiou Hwang	Perspectives in Animal Ecology and Reproduction. Volume-9, M/S Daya Publishing House, New Delhi, INDIA.	2013	ISBN:978-81-7035-829-9

5.	Use of Biological Insecticides for the Control of Dengue Vector, *Aedes aegypti* (L.) (Insecta: Diptera: Culicidae).	**K. Murugan,** A.Noortheen, T. Nataraj, D. Amerasan, P.Madhiyazhagan, K.Kalimuthu and Jiang-Shiou Hwang	Perspectives in Animal Ecology and Reproduction. Volume-9, M/S Daya Publishing House, New Delhi, INDIA.	2013	ISBN:978-81-7035-829-9
6.	Influence of elevated co2 on plant chemistry and bio-chemical changes of papaya mealy bug, *Paracoccus marginatus* (insecta: hemiptera: pseudococcidae).	Amerasan D, **Murugan.K**, Kovendan .K, MaheshKumar P, PanneerselvamC, Subramaniam J, Jayaraj R.S.C, Balu A and Krishnakumar N	Biodiversity and physiological processes. Goa, Goa University Publishers, India.	2012	ISBN-978-81-908791-3-2
7.	Combined effect of *Cadaba trifoliate* (family : Capparacecae) leaf extract with *Bacillus thuringiensis* against malarial Vector, *Anopheles stephesi*, Liston (Diptera : Culucidae)	Mahesh Kumar P, **Murugan K**, Kovendan K, Subramaniam J, Amerasan D, Panneerselvam C, Kalimuthu K, Nataraj T	Biodiversity and physiological processes, Goa, Goa University Publishers, India.	2012	ISBN-978-81-908791-3-2
8.	Mosquitocidal efficacy of *Orthosipon thymiflorus* (Roth) Sleesen. (Family: Labiatae) leaf extract and microbial insecticide, *Metarhizium anisopliae*, against dengue vector, *Aedes aegypti* (Diptera: Culucidae).	Kovendan K, **Murugan K** and Vincent	Biodiversity and physiological processes, India.	2012	ISBN-978-81-908791-3-2

9.	Toxicity and biological effects of neem limonoids on diamondback moth, *Plutella xylostella.*	**Kadarkarai Murugan**	AVRDC Publications, PO Box 42 Shanhua, Tainan 74199 Taiwan	2011	(ISBN No. 92-9058190-5), 164-171
10.	Mosquito Vector Management By Spraying Biopesticide At The Tsunami Affected Areas Of Tamil Nadu And Pondicherry, 2004-2005 – A CASE STUDY.	**Murugan K.** and S.Kamalakannan	APH Publishing Corporation, New Delhi, India.	2009	ISBN No. 813130916 997881313 09162
11.	Integratiohn of Botanical and Microbial Pesticides for the Sustainable Management of Insect – Pests. In: Neem A Treatise.	**Murugan K.** and Vanithakumari G.	I.K.International Publising House Pvt. Ltd., New Delhi, India.	2009	ISBN10; 818986600 1.
12.	Chemical and botanical pesticides on their impact on the biological control agents on insects	**Murugan K.**	T.A. Albanis, University of Ioannina, Greece	2004	ISBN:960-91399-0-6
13.	Additive and synergistic interaction between entomopathogenic nematodes and *Bacillus thuringiensis* for root grub control. In Microbials in Insect Pest Management	SivaramakrishnanS **Murugan K** Poonkodi M Thiyagarajan P and Umamaheswari S.	Oxford & IBH Publishing Co., New Delhi,	2001	ISBN: 812041496 9.
14.	Impact of gossypol on feeding and reproduction of	Babu R, **Murugan K,** Rajulu G S	In Sinha M P, Mehrotra P N Recent	1997	ISBN: 817024842 6

	Helicoverpa armigera Hub. in relation on control strategy (Lepidoptera: Noctuidae)		advances in ecobiological research A.P.H. Publishing Corporation, New Delhi.		
15.	Effect of neem kernel extract and neem oil on Nutritive and Reproductive Physiology of *Heliothis armigera* Hub. In: Neem and Environment,	**Murugan K** Jahanmohini P and Babu R	R.P. Singh, M.S. Chari, A.K.Raheja and W. Kravs. Published by Oxford and IBH Co., Pvt. Ltd. Delhi	1996	ISBN:8120 410696
16.	Indian herbs for Alzheimer's disease and associated symptoms	**Murugan K** Senthilkumar B and Palani S	LAP LAMBERT Academic Publishing OminiScriptum GmbH & Co. KG	2016	ISBN:978-3 -659-91267-2
17.	Three-Dimensional Molecular Structure Prediction of Selenocysteine Methyltransferase (BoSMT) from *Brassica oleracea*, Brassicaceae: Characterization, Functional Genomics and Health Benefits	Raman Chandrasekar, Brintha Parasumanna Girinathan, Minglin Lang, Murugesan Chandrasekaran, **Kadarakarai Murugan**	Book volume Ed.by Minglin Lang Nova Publisher, New York, USA.	2013	DOI: ISBN: 978-1-62808-856-4.

NCBI-Gen Bank Accession Numbers

1. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary

importance: *Anopheles nilgiricus* voucher BUZOO-M-An cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, 649 bp linear DNA, **Accession: KR872408**

2. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance: *Anopheles vagus* voucher BUZOO-M-Av cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial:599 bp linear DNA, **Accession: KR872407**

3. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance: *Culex pseudovishnui* voucher BUZOO-M-Cp cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial:662 bp linear DNA, **Accession:KR872406**

4. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance. *Culex vishnui* voucher BUZOO-M-Cv cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 700 bp linear DNA, **Accession: KR872405**

5. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance. *Aedes vittatus* voucher BUZOO-M-Av cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 504 bp linear DNA, **Accession: KR872404**

5. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance. *Aedes albopictus* voucher BUZOO-M-Aal cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial:651 bp linear DNA, **Accession:KR817732**

6. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance. *Aedes aegypti* voucher BUZOO-M-Aa cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 635 bp linear DNA, **Accession: KR817731**

7. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance. *Culex quinquefasciatus* voucher BUZOO-M-Cq cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 651 bp linear DNA, **Accession: KR817730**

8. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance *Anopheles culicifacies* voucher BUZOO-M-Ac cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 650 bp linear DNA, **Accession: KR817729**

9. **Murugan,K.,** Vadivalagan,C., Karthika,P., Panneerselvam,C., Paulpandi,M., Subramaniam,J., Wei,H., Aziz,A.T., Alsalhi,M.S., Devanesan,S., Nicoletti,M., Paramasivan,R., Parajulee,M.N. and Benelli,G. (2015) DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary

importance. Anopheles stephensi voucher BUZOO-M-As cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 758 bp linear DNA, **Accession: KR817728**

10. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-31 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 740 bp linear DNA, **Accession: KT339683**

11. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-30 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 746 bp linear DNA, **Accession: KT339682**

12. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-29 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 746 bp linear DNA, **Accession: KT339681**

13. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South

India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-28 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 746 bp linear DNA, **Accession: KT339680**

14. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-27 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 740 bp linear DNA, **Accession: KT339679**

15. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera:Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-26 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 645 bp linear DNA, **Accession: KT339678**

16. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-25 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 643 bp linear DNA, **Accession: KT339677**

17. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes

aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-24 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial 646 bp linear DNA, **Accession: KT339676**

18. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera:Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-23 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 646 bp linear DNA, **Accession: KT339675**

19. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-22 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 642 bp linear DNA, **Accession: KT339674**

20. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-21 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 643 bp linear DNA, **Accession: KT339673**

21. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes

aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-20 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 643 bp linear DNA, **Accession: KT339672**

22. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera:Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-19 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 645 bp linear DNA, **Accession: KT339671**

23. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-18 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 644 bp linear DNA, **Accession: KT339670**

24. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera:Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-17 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 648 bp linear DNA, **Accession: KT339669**

25. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes

aegypti (Diptera: Culicidae): influence of environmental barriers in South India. *Aedes aegypti* voucher BU-Zoo-Ae.a-16 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 646 bp linear DNA, **Accession: KT339668**

26. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. *Aedes aegypti* voucher BU-Zoo-Ae.a-15 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 650 bp linear DNA, **Accession: KT339667**

27. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. *Aedes aegypti* voucher BU-Zoo-Ae.a-14 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 503 bp linear DNA, **Accession: KT339666**

28. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. *Aedes aegypti* voucher BU-Zoo-Ae.a-13 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial: 560 bp linear DNA, **Accession:KT339665**

29. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic

deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-12 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 630 bp linear DNA, **Accession: KT339664**

30. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-11 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 505 bp linear DNA, **Accession: KT339663**

31. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-10 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 597 bp linear DNA, **Accession: KT339662**

32. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-09 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 811 bp linear DNA, **Accession: KT339661**

33. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic

deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera:Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-08 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 630 bp linear DNA, **Accession: KT339660**

34. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-07 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 630 bp linear DNA, **Accession: KT339659**

35. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera:Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-06 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 560 bp linear DNA, **Accession: KT339658**

36. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-05 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 648 bp linear DNA, **Accession: KT339657**

37. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic

deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-04 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 630 bp linear DNA, **Accession: KT339656**

38. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-03 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 652 bp linear DNA, **Accession: KT339655**

39. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-02 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 652 bp linear DNA, **Accession: KT339654**

40. Vadivalagan,C., Karthika,P., **Murugan,K.,** Panneerselvam,C., Paulpandi,M., Madhiyazhagan,P., Wei,H., Aziz,A.T., Alsalhi,M.S.,Devanesan,S., Nicoletti,M., Paramasivan,R., Dinesh,D. and Benelli,G. (2015) Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera:Culicidae): influence of environmental barriers in South India. ***Aedes aegypti*** voucher BU-Zoo-Ae.a-01 cytochrome c oxidase subunit I (**COI**) gene, partial cds; mitochondrial: 630 bp linear DNA, **Accession: KT339653**

41. Vadivalagan, C., **Murugan, K**. and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-15 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920684**

42. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-14 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920683**

43. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-13 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920685**

44. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-12 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920686**

45. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-11 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920687**

46. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-10 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920688**

47. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-09 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920689**

48. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-08 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920690**

49. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-07 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920691**

50. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-06 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920692**

51. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-05 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920693**

52. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-04 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920694**

53. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-03 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920695**

54. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-02 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920696**

55. Vadivalagan, C., **Murugan, K.** and Karthika, P. 2016. *Culex quinquefasciatus* voucher BU-Zoo-Cq-01 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial, **Accession: KU920697**

OTHER PUBLICATIONS:

1. India to prescribe some medicine for treatment of water pollution sound biological mosquito killing is the trend. At 09:31 on September 25, 2009. Source: Han Net - Changjiang, Daily Author: Neem draft selection: over - Ting wang, Wuhan, China.
2. Chikuguniyavai kattupadutha pudhiya murai. (Newer Strategy for the control of Chikungunya) Article from Tamil Magazine, Dhinagaran, 11/09/2006.
3. London Palgalai kalagathudan inainthu chikungunya noyai kattupadutha puthiya aarachi thittam. (Collaboration between University in London and

Bharathiar University fort the Managment of Chikungunya) Article from Tamil Magazine, Daily Thanthi, 19/09/2006.

4. Thavarangalil irunthu puchi kolli marunthu (Botanical Insecticides) Article form Tamil Magazine, Dhinamalar, 21/10/2005.
5. Munnecharikai (Alert – Mosquito Problem) Article from Tamil Magazine, Dhinamalar, 3/11/2003.
6. Nanmai tharum puchigal. (Beneficial Insects) Article form Tamil magazine, Dhinamani, 23/01/2003.
7. Usar for mosquito (Alert for Mosquito) – Article form tamil Magazine, Dhinamalar, 13/10/2003.
8. Merku thodarchi malaiyil varnajalam (Butterflies Beauty at Western Ghats, Southern India) Article form Tamil magazine, Dhinamalar, 14/11/2003.
9. Vembu kosuvin muttaiai alikkum (Ovicidal Action of Neem against Insects)- Bharathiar University yin aayvu mudivil thagaval – (Research out put of Bhartahiar University) Article form Tamil magazine, Dhinamalar, 22/10/2002.
10. Managing cotton bolloworm meance - Article from the Daily English Hindu, 27/01/2000.
11. Kosuvai olika veppa yennai (Mosquitocidal Properties of Neem)- Article form Tamil magazine, Daily Thandhi, 03/01/1999.
12. Control of rice leaf folder by bacterial toxins. Article from Science and Technology, The English Magazine, The Hindu, 10/12/1999.
13. Neem, NPV virus to fight cotton pest. Article from the English Magazine, The Hindu, 12/12/1999.
14. Herbal attack. Article from English Daily Magazine, The New Indian Express, 23/03/1999.

15. Paruthi kaayp puluvai kattupadutha unnatha uyir puchi kolligal. (Biological Control of Cotton Insects) Article form Tamil magazine, Daily Thandhi, 06/04/2004.

16. Velanmai Sythigal – (Neem in Mango Insects Control) - Mamara ilai puchi kattup patil vmbu. Article from Tamil Magazine, Daily Thandhi, 18/11/2003.

17. Velanmai Seythigal – (Neem in Teak Insects Managment) - Theku marathon puchigalai alika vembin karaisal. Article form Tamil Magazine, Daily Thandhi, 11/11/2003.

18. What's Pudding? Article from English Magazine, The Hindu, 03/04/2004.

19. Oh Butterfly! Article from English Magazine, The Hindu, 06/12/2003.

20. Aagayathamarai olika vettukili yuthi (*Eichhornia crassipes* control by a Indigenous grasshopper) Article form Tamil Magazine, Dhinagaran, 12/11/2006.

THESIS PRODUCED:

Ph.D. Degree (Zoology - Entomology) awarded.

(Total No. of thesis produced 42) Ph.D. Degree (Zoology - Entomology)

1. P. Jahanmohini - Studies on Host Plant interactions with special reference to *Helicoverpa armigera* (Insecta: Lepidoptera: Noctuidae), 1995.
2. R. Babu - Studies on the effect of Azadirachtin on Feeding, Reproduction and Histological changes during development of *Atractomorpha crenulata* Fab. (Insecta: Orthoptera: Acrididae), 1996.
3. P.S. Chitra - Studies on Insect - Host Plant interactions with special reference to *Poecilocerus pictus* Fab. (Orthoptera: Acrididae) and *Danaus chrysippus* Linn. Lepidoptera: Acrididae), 1996.
4. D. Jeyabalan - Potentiating effect of azadirachtin on the *Bacillus thuringiensis* (Berliner) subsp. kurstaki on the feeding, development,

biochemistry and histopathology of *Spodoptera litura* Fab. (Insecta: Lepidoptera: Noctuidae), 1998.

5. N. Senthil Kumar - Combined effect of nuclear polyhedrosis virus and azadirachtin on the feeding, growth, development, biochemical and histopathological changes of *Helicoverpa armigera* Hub. (Insecta: Lepidoptera: Noctuidae), 1998.

6. S. Senthil Nathan - Studies on the synergistic effect of *Bacillus thuringiensis* (Berliner) subsp. kurstaki. *Azadirachta indica* and *Vitex negundo* on the feeding, growth, reproduction and biochemical changes of *Cnaphlocrosis medinalis* (Guence) (Insecta: Lepidoptera: Pyralidae)-2000.

7. S. Sivaramakrishnan- Studies on the Synergistic interaction of *Azadirachta indica*, *Bacillus thuringiensis* and *Steinernema carpocapsae* nematodes on wax moth, *Galleria mellonella*, 2000.

8. Krishnakumar - Studies on the bio-ecology of Papilio butterflies in Anamalai Hills, Western Ghats, Southern India. (January, 2003).

9. Vahitha R- Studies on the interactive effect of neem, pongamia and *Leucas aspera* with *Bacillus thuringiensis* var. *israelensis* for the control of filarial vector, *Culex quinquefasciatus* Say. (Insecta: Diptera: Culicidae) (December 2004).

10. Thangamathi P- Studies on the interactive effect of *Aristolochia indica* Linn. and *Bacillus thuringiensis* var. *israelensis* for the control of filarial vector, *Culex quinquefasciatus* Say. (Insecta: Diptera: Culicidae) (March, 2004).

11. Sumathi P -Studies on the bioactivities of *Vitex negundo* L. on *Bacillus thuringiensis* subsp. *israelensis* for the control of malarial vector, *Anopheles stephensi* Liston. (Insecta: Diptera: Culicidae) (April, 2004).

12. Amuthadevi P. Studies on the effect of neem and *Bacillus sphaericus* for the control of dengue vector, *Aedes aegypti* (Insecta: Diptera: Culicidae) (May,

2005).

13. Umamaheswari S. Potentiating effect of *Murrya paniculata* on *Bacillus thuringiensis* var israelensis on Malarial vector, *Anopheles stephensi* (Insecta: Diptera: Culicidae) (May, 2005).

14. Noortheen A. – Studies on combined effect of Botanicals, microbials and synthetic insecticides against dengue vector, *Aedes aegypti* (June, 2005) (Insecta: Diptera: Culicidae) – (May, 2005).

15. Murugan P. Studies on the combined effect of G*lycosmis pentaphylla* hook.,*Albizzia ammara* boivin., *Ocimum basilicum* linn. and *Bacillus thuringiensis subsp. israelensis* on mosquitocidal activity for the control of malarial vector, *Anopheles stephensi* liston. (Insecta: Diptera: Culicidae)".

16. Rajalakshmi L. (2006) – Studies on the interactive effect of *Jatropha curcas Linn.* And *Bacillus thuringiensis* subsp. Israelensis for the control of mosquito vector, *Culex quinquefasciatus* Say (Insecta: Diptera: Culicidae).

17. Kamalakannan S. (2007) Combined effect of *Metarhizium anisopliae* (Metsch.) Sorokin and *Acalypha alnifolia* klein ex willd. (Euphorbiaceae) on the mosquitocidal activity of dengue vector, *Aedes aegypti* (L.) (Insecta:Diptera:Culicidae)".

19. Thiygarajan P. (2007) Studies on the interactive effect of Fungal pathogen, *verticillium lecanii* (zimm) Viegas and Orthosiphon *thymiflorus* (roth) sleensen var *tomentosus* (hook. F.) *Sleensen* on the larvicidal, pupicidal, repellency and devlopment of malarial vector, A*nopheles stephensi* (Insecta: Diptera: Culicidae).

20. Vineetha A. (2008) - Studies on the synergistic effect of *Toddalia asiatica* and *Aegle marmelos* on larvicidal, pupicidal and repellency of Dengue

vector, *Aedes aeypti* Linn.

21. Kuppusamy C. (2009) - Studies on the mosquitocidal and synergistic effect of effect of *Andrographis paniculata Nees* with Bti & BS and deltermethrin against malarial vector, *Anopheles stephensi* and identification of various antigen protein-PfEMP-1 in *plasmodieum falciparum* (Insecta: Diptera: Culicidae)
22. Shobana K. (2010). Studies on the interactive effect of bacterial insecticide. Spinosad and *Chenopodium ambrosioides* essential oil on the toxicity, feeding, reproduction and control of *Spodopera litura.*
23. Radha R. (2010). Studies on the effect of Entomopathogenic Fungi and Essential oils on the Toxicity, Repllency, Damage Assessment and Progency Production of Cowpea bruchid, *Callosobruchus maculates* (F.) (Insecta: Coleoptera: Bruchidae)
24. Naresh Kumar.A (2010). A Geographic information (GIS) Model for Mapping Mosquito population: Green synthesis of Silver Nanoparticles along with Biopesticides for the control of Mosquito vectors.
25. Vasugi C. (2011) Studies on the integration of *Delonix elata* (Yellow gulmohr), *Bacillus sphaericus* and copepod, *Mesocyclops aspericornis* for the control of dengue vector, *Aedes aegypti.*
26. Aarthi N. (2011) Studies on the effect of *Cassia auriculata* Linn. Against the larvae, pupae and adult malarial vector, *Anopheles stephensi* (L.) and the malarial parasite, *Plasmodium falciparum.*
27. Kovendan K. (2011) Studies on the Toxic and Synergistic effects of *Morinda citrifolia* L. (Noni) with Entomopathogenic fungi, *Metarhizium anisopliae* (Metsch.) against the mosquito vectors.
28. Abirami (2011) Studies on the larvicidal, pupicidal, ovicidal, oviposition deterrency, repellent activities of *Cassia occidentalis* on malarial vector,

Anopheles stephensi and Anti plasmodial activity on the malarial parasite, *Plasmodium falciparum.*

27. Indumathi D. (2011) Integrated effect of botanicals, microbial pesticide and copepod on dengue vector, *Aedes aegypti* (L.) (Insecta: Diptera: Culicidae).

28. Chitra T. (2011) Integration of Botanical, Bacterial insecticide and Copepod for the control of rural malarial vector, *Anopheles culicifacies* Ggiles. (Insecta: Diptera: Culicidae).

29. Jeyalalitha T. (2011) Studies on the larvicidial, pupicidal, ovicidal and repellentactivities of biosynthesized gold nanoparticles of C*ymbopogon citratus* and plant extract of *Anthocephalus cadamba* on filarial vector, *Culex quinquefasciatus* (Insecta: Diptera: Culicidae).

30. Suresh S. (2011) Studies on the bioactivities of tribal (Nilgiris) medicinal plant, *Rhodomyrtus tomentosa* and *Bacillus thuringeinsis* var*. israelensis* on the larvicidal, pupicidal and repellency on malarial vector, *Anopheles stephensi.*

31. Prasanna Kumar K. (2012) A Geographic Information Systems (GIS) and combined effect of seaweed *Gracilaria verrucosa* (Hudson) and Microbial insecticide, Spinosad against mosquito vectors in Gulf of Mannar, Tamil Nadu, India.

32. Amerasan D. (2014) Isolation, Purification and Characterization of Extracellular Protease Enzyme in *Metarhizium anisopliae* and Synthesis of silver nanoparticles for the control of Diamondback moth, *Plutella xylostella* (Insecta: Lepidoptera: Plutellidae)

33. Panneerselvam C. (2014) Mosquitocidal and Antimalarial effect of synthesized silver nanoparticles from *Pteridium aqulinum*

34. Mahesh Kumar P. (2014) Studies on the Mosquitocidal effect of Bioactive

compounds and Synthesized Silver Nanoparticles using berberis tinctoria (Berberidaceae) against mosquito vectors.

35. Durga Devi (2014) Studies on the Green Synthesis of Silver Nanoparticles using *Alocasia macrorrhiza* (L.) and *Couroupita guianensis* against malarial vector, *Anospheles stepohensi* Liston. (Insecta: Diptera: Culicidae) and Crop Pest, *Spodoptera litura* Isecta: Lepidoptera: Noctuidae).

36. Nataraj T. (2014) Studies on the Distribution of Nilaparvata lugens and Anopheles culicifacies in varied Agro-Ecological Zones Using Geographical Information Systems (GIS) Model an their Management Through Fungal and Plant Mediated Nano-Insecticides.

37. Madhiyazhagan P. (2015) Studies on the Mosquito control using Seaweed mediated Nanoparticles and Mosquito Suriviellence using Geographical Information System (GIS).

38. Kanagaraj N. (2014) Effect of seed extract of *Manihot esculenta*, Azadirachtin and Bti toxin on fruit and shoot borer of bhendi *Earias vittella* (Fabricius)

39. Philips P.R. (2015) Studies on the Toxic effects of *Chenopodium ambrosioides* L. (Family: Chenopodiaceae) against the filariasis vector, *Culex quinquefasciatus* (Diptera: Culicidae).

40. Subramaniam J. (2015) Studies on the Mosquitocidal and Antimalarial Potential of Green Synthesized Silver Nanoparticles Using *Mimusops elengi* against *Anopheles stephensi* and *Plasmodium falciparum*.

M.PHIL. DEGREE AWARDED:

Submitted to Bharathiar University, Coimbatore 641 046, India.

(Total number of M.Phil. Dissertation produced 52 and Studying students: 1)

1. Sr. Ancy George - Host plant influence on feeding and reproduction of *Daphnis nerii* (Lepidoptera: Sphingidae) - 1991.
2. S. Senthamil Selvi - Studies on Host plant biochemical influence on feeding and reproduction of *Danaus chrysippus* Linn. (Lepidoptera: Nymphalidae) - 1992.
3. T. Chitra - Studies on host plant and predator relationship of *Aphis nerii* (Homoptera: Aphididae -1992.
4. C. Vani - Studies on the host plant and Gossypol interactions in relation to feeding and reproduction of *Helicoverpa armigera* (Hubner) (Insecta: Lepidoptera: Noctuidae) - 1993.
5. Suzy Alexander - Studies on the host plant and pesticide interactions in relation to feeding and detoxifying mechanisms of *Helicoverpa armigera* (Hubner). (Insecta: Lepidoptera: Noctuidae) - 1993.
6. D. Jeyabalan-Studies on the influence of host plant, pesticides and neem products in relation to feeding, growth and Reproduction of *Helicoverpa armigera* (Hubner) (Insecta: Lepidoptera: Noctuidae) - 1994.
7. Shiju Jacob - Influence of host plant and caffeine on feeding reproduction and Acetylcholine esterase activity *Helicoverpa armigera* (Hubner). (Insecta: Lepidoptera: Noctuidae) - 1994.
8. M.Thangam -Influence of host plants on feeding, reproduction and Detoxification mechanisms of *Helicoverpa armigera* (Hub.) *Spodoptera*

litura (Fab.) and Earias vittella Fab.) (Insecta: Lepidoptera: Noctuidae) - 1994.

9. S. Senthil Nathan - Role of entomofauna in the litter decomposition (teak) and Pollination Biology (Eucalyptus and Ipomoea) in Western Ghats, Southern India - 1995.
10. R. Senthil Vadivu - Effect of Nuclear Polyhedrosis virus (NPV) and *Bacillus thuringiensis* (Bt) on the antifeedant, growth and reproduction of *Helicoverpa armigera*, Hub. (Insecta: Lepidoptera: Noctuidae) - 1995.
11. S. Sivaramakrishnan - Combined effect of NPV, Nimbecidine and Botanicals (Neem, Pongamia, Vitex) on feeding, growth, development and reproduction of *Spodoptera litura* (Fab.) - 1997.
12. R. Kavitha - Effect of the Biocide, *Bacillus thuringiensis* Kurstaki and Botanicals on the feeding, growth development and Biochemistry of *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) - 1997.
13. V. Senthil Kumar -Effect of entomopathogenic fungi, *Beaveria bassiana* (Bals) and neem oil on the feeding, growth and pathogenicity of *Helicoverpa armigera* (Hubner) (Insecta: Lepidoptera: Noctuidae) –1999.
14. K. Kalaivani – Studies on the Host plant influence on *Helicoverpa armigera* and the subsequent parastitisation of egg parasitoid, *Trichogramma chilonis* – 2000.
15. N. Poonkodi – Studies on the interactive effect of *Bacillus thuringiensis* (Berliner) Subsp. Kurstaki and *Azadirachta indica* on the feeding, growth, reproduction and biochemical parameters of Rice Yellow Stem Borer, *Scirpophaga incertulas* (Insecta: Lepidoptera: Pyralidae) – 2001.
16. S.Umamaheswari – Synergistic effect of *Beauveria bassiana* (Balsamo), *Azadirachta indica* and *Vitex negundo* on the feeding, growth and

reproduction of *Spodoptera litura* (Fab.) (Insecta: Lepidoptera: Noctuidae) –2001.

17. P. Sumathi – Studies on the integration of *Bacillus thuringiensis* (Subsp. Kurstaki) and *Azadirachta indica* on the feeding, growth and reproductive programming of Diamond Back Moth, *Plutella xylostella* (L.) (Insecta: Lepidoptera: Plutellidae) - 2001.
18. N. Arul - Integration of neem (*Azadirachta indica* A. Juss.*)* and *Bacillus thuringiensis* Var. for the control of Filarial vector, *Culex quinquefasciatus* Say - 2002.
19. K. Shobana - Studies on the influence of host plants on feeding, growth and reproduction and parasitisation of some papilio butterflies - 2002.
20. L. Rajalakshmi - Studies on the Lepidopteran (Butterflies and Moths) and Toxic host plant interactions - 2002.
22. C. Vasugi - Studies on the bioactivities of *Azadirachta indica* A.Juss on entomopathogenic nematode for the control subterranean termites, *Reticulitermes flavipes* (Isoptera: Rhinotermitidae) - 2003.
23. M.S. Thillaikarasi -Studies on the larvicidal and smoke repellency/toxicity effect of *Acalypha indica* and A*cyranthes aspera* on dengue vector, *Aedes aegypti.* December, 2004.
23. R. Latha-.Studies on the larvicidal and repellency effect of *Eucalyptus globulus* and *Cymbopogan citratus* on dengue vector, *Aedes aegypti*. December, 2004.
24. S. Sasikala- Studies on the influences of host plants (*Aristolochia indica* and *Aristolochia tagala*) on feeding biology, growth and development of *Pachliopta hector and Pachliopta aristolochiae* (butterflies) (Insecta: Lepidoptera: Papilionidae). December, 2004.

25. A. Vineetha - Studies on the effect of *Toddalia asiatica* and *Aegle marmelos* on larvicidal, pupicidal and repellency of dengue vector, Aedes aegypiti (Linn) - December, 2005.
26. P. Premalatha - Stuides on the effect of *Murraya koenigii* spreng, and *Bacillus thuringiensis* subsp. Israelensis on the larvicidal, pupicidal and repellency of malarial vector, *Anopheles stephensi* Liston. (Insecta:Diptera:Culicidae)-December, 2005.
27. N. Kamaladasan - Evaluation of toxic and repellent properties of plant products for the control of Bruchid beetle, *Callosobruchus maculatus (*Fabricius) (Insecta: Coleoptera: Bruchidae) – December, 2005.
28. R. Ramesh Prabu – Stuides on the larvicidal, pupicidal and repellent properties of *Anisomeles malabarica (L.)* for the control of malarial vector, *Anopheles stephensi* Liston – December, 2005.
29. R. Anuradha - Studies on the influence of normal and Bt cotton on then feeding, growth and development of *Helicoverpa armigera* (Hubner) (Insecta:Lepidoptera: Noctuidae) - December, 2005.
30. R. Umadevi – Studies on the effect of Neem and Spinosad, on the toxicity, larvicidal and repellency on Japanese encephalitis vector, *Culex vishnui* at Rice Breeding area of Tanjore, Tamil Nadu, India. (Insecta: Diptera: Culicidae), August, 2006.
31. Ramesh Kumar - Studies on the chemical ecology and host plant selection of Butterfly, *Danaus chrysippus* and moth, *Eligma narsusses* (Insect:Lepidoptera: Danaidae/Noctuidae), August,2006.
31. B. Vimala - Studies on the effect of Spinosad, neem extract and endosulfan on the development and reproduction of *Aphis gossypii* (Insecta:

Homoptera: Apididae) and predatory efficiency of *Hippodomia convergens* (Insecta: Coleoptera: Coccinellidae) – August, 2005

32. R. Ramesh Prabu – Stuides on the effect of extract of *Anisomeles malabarica and neem (L.)* for toxicity, damage assessment, ovipositional repellency on Bruchid Beetle, *Callosobruchus maculates (*Fabricius), (Insecta:Coleoptera:Bruchidae), August, 2006.
33. N. Ramasubramanian – Studies on the combined effect of *Ocimum basilicum* Linn. and *Adenanthera pavonina* on the larvicidal, pupicidal, repellent activity of Malarial vector, Anopheles stephensi Liston. (Insecta: Diptera: Culicidae). September, 2007.
34. S. Savya – Coimbined effect of *Bacillus thuringinensis* (Bt) and Nuclearpolyhedrosis Virus (NPV) on Feeding, Growth and Reproduction of *Spodoptera litura*. Fab.
35. P. R. Philips - Studies on the Effect of *Aloe Vera* on the Larvicidal, Pupicidal and Repellent Activity on Malarial Vector, *Anopheles Stephensi* (Insecta: Diptera: Culicidae).
36. M. Jeyanthi - Mosquitocidal Potential of Bacterial Pesticide, *Bacillus Sphaericus* on the Three Mosquito Vectors *Anopheles stephensi, Culex Quinquefasciatus* and *Aedes Aegypti* (Insecta: Diptera: Culicidae).
37. P. Madhiyazhagan - Studies on the Effect of Spinosad and Nimbicidine on the Larvicidal, Pupicidal, Repellency and Development of Malarial Vector, *Anopheles Stephensi* (Insecta: Diptera: Culicidae).
38. D. Amerasan- Studies on the effect of elevated co_2 on the infestation pattern and control of cotton mealy bug, *paracoccus marginatus* (insecta: Hemiptera: pseudococcidae).

39. P. Mahesh kumar - Studies on the effect of climatic change on the bio efficacy of *Solanum xanthocarpum*, *Bacillus sphaericus* and copepod (*Mesocyclops thermocyclopoides*) against dengue vector *Aedes aegypti* (Insecta: Diptera: Culicidae).
40. J. Subramaniam-Studies on the effect of Elevatyed CO_2 and temperature on cotton Aphid, *Aphis gossypii* (Insecta: Hemiptera: Aphididae) and dengue vector, *Aedes aegypti* (Insecta: Diptera: Culicidae) September – 2011.
41. K. Kalimuthu – Studeis on the effect Cadaba indica Lam, *Bacillus thuringiensis* against the malarial vector, *Anopheles stephensi*, Insilico and Invitro evaluation of the plant extract against *Plasmodium falciparum* September – 2011.
42. S. Thangamani- Studies on the effect of Elevated CO_2 and Temperature on Cotton Bollworm, *Helicoverpa armigera* (Hubner) and filarial vector, *Culex quinquefasciatus* (Insecta: Diptera: Culicidae) September – 2011.
43. C. Praseeja – Studies on the effect of elevated $CO_{2,}$ on infestation pattern and control of cotton leaf worm Spodoptera littoralis (Lepidoptera: Noctuidae) with special reference to Efficacy of *Bacillus thuringiensis* and Bracon brevicornis (Hymenoptera: Braconidae) September – 2011.
44. T. Priya. (2013) Synergistic effect of Nanoparticles and fungal toxins for the control of mosquito vectors at different agroclimatic regions of Tamil Nadu, India.
45. Saranya – Effect of Bacillus sphaericus and plant toxins on the toxicity and growth and reproduction of *Anopheles culicifacies*
46. N.A. Suganya (2013) Green synthesis of silver nanoparticles using marine algae, *Caulerpa scalpelliformis* and its mosquitocidal activity against Culex quinquefasciatus Say. and Insecticdal activity against *Helicoverpa armigera* (Hubner)

47. S. Sivapriyajothi (2013) Biosynthesis of Silve Nanoparticles using Marine Algae *Codium tomentosum* (Huds.) leaf extract and Tobacco cutworm, *Spodoptera litura*
48. M. Roni (2013) Seaweed-Mediated biosynthesis of Silver Nanoarticles using *Hypnea musciformis* for the control of dengue vector, *Aedes aegypti* and Diamondback moth, *Plutella xylostella*
49. S. Christina Mary (2013) Studies on the effects of bio-Synthesis of Silver nanoparticles against malaria vector, *Anopheles stephensi* and Crop pest, Spodoptera *litura* by using Marine algae, *Ulva lactuca*
50. B. Chandramohan (2014) Biosyntheis of Silver Nanoparticles using *Acorus Calamus* against malarial vector, *Anophles stephensi* and DNA Barcoding of dengue vector, *Aedes aegypti*
51. P. Aruna (2014) Evaluation of Mosquitocidal, Antioxidant and Cytotoxicity activities of Biosynthesized Silver Nanoparticles using *Centroceras clavulatum* against the dengue vector, *Aedes aegypti*
52. V. Sujitha (2014) green synthesis of Silver Nanoparticles using Moringa oleifera and its cytotoxicity, Antiviral, Antioxidant and Antivectorial Properties.
53. Biofabrication of encapsulated silver nanoparticles mediated by *Marasmius oreades* from western ghats of Tamilnadu with high toxicity against *Anopheles stephensi*, Antiplasmodial and its impact on predation of copepods by Jayashanthini (2016).
54. Fern-Synthesized silver nanocrystals: Biophysical characterization and potential mosquitocidal properties against dengue and zika virus vector, *Aedes aegypti* with little non-target effects on predatory tadpole, *Rana temporaria. Submitted by* R. Rajaganesh (2016).

M.Sc. DEGREE (Animal Science) AWARDED:

Submitted to Bharathiar University, Coimbatore 641 046, India
(Total No. of M.Sc. Dissertation produced 91).

1. K. Sasikaladevi - Host Plant influence on feeding and reproduction of wingless grasshopper, Orthacris maindroni (Orthoptera: Acrididae), 1991.
2. Gobunathan - Biochemical changes during embryogenesis of Atractomorpha cranulata (Orthoptera: Acrididae), 1991.
3. C. Vani - Biochemical changes during Gonadotropic period of male and female Poekilocerus pictus (Orthoptera: Acrididae), 1992.
4. D. Jeyabalan - Host plant biochemical diversity on the feeding and water balance of mango caterpillar, Latoia lepida Cramer (Lepidoptera: Limacodidae), 1993.
5. M. Thangam -Host plant biochemical diversity on the feeding and reproduction of Poecilocerus pictus Fab. (Orthoptera: Acrididae), 1993.
6. N. Senthil kumar -Entomofauna and Mycoflora in decomposing pine litter, 1994.
7. R.Senthil Vadivu - Dietary influence on the feeding and reproduction of Callasobruchus maculates (Fab.), 1994.
8. R. Kavitha - Effect of Vitex negundo, Pongamia pinnata and Azadirachta indica on the feeding and reproduction of Atractomorpha crenulata (Orthoptera: Acrididae) and Helicoverpa armigera (Lepidoptera: Noctuidae), 1995.
9. S. Sivaramakrishnan - Effect of Nimbecidine (a biopesticides) on the growth and development of red hairy caterpillar, thrips, ticks and mites, 1995.

10. K. Chitra - Effect of Nimbecidine (Neem based bio-pesticide) on the feeding, growth and biochemical profiles during biochemical profiles during development of Helicoverpa armigera (Insecta: Lepidoptera: Noctuidae), 1996.
11. N. S. Raja - Effects of neem and other botanicals from Coimbatore District on the feeding, growth and development of Fab. (Lepidoptera: Noctuidae), 1996
12. Anand Kumar - Evaluation Spodoptera litura of certain indigenous plant extracts on the Filarial Vector, Culex quinquefasciatus Say, 1997.
13. R. K. Narayan - Evaluation of the Neem products (Azadirachta indica A. Juss) on the Malarial Vector, Anopheles stephensi Liston - 1997.
14. M. Perumal - Neem and Vitex extracts on the growth and development of certain forest pests, 1998.
15. C. Indira - Effect of neem, eucalyptus and pongamia oils, on the growth and development of Cockroach (Periplaneta americana), 1998.
16. V. Senthil Kumar - Effect of plant products (neem, ocimum and clove) on the growth and development of Callasobruchus maculatus (stored product pest), 1998.
17. S. Dhakshayani - Synergistic interaction of Bt toxins, neem and Entomopathogenic nematodes, 1999.
18. N. Poonkodi - Potentiating effect of neem on entomopathogenic nematodes, 1999.
19. S. Umamaheswari - Host plant influence on the parasitisation of endoparasitoids Chelonus blackburni (Cam.) on Helicoverpa armigera (Lepidoptera: Noctuidae), 1999.
20. P. Thiagarajan - Host plant influence on the pollination potential of certain Papilio butterflies in Maruthamalai region, Western Ghats, South India, 1999.

21. N. Arul - Efficacy of herbal extracts on the larvicidal, pupicidal and repellent properties on mosquito vectors of medical and veterinary importance, 2000.
22. P. Thangamathi - Interactive effect of neem oil, pongamia oil and Bacillus thringiensis Var. Israelensis on the larvicidal, pupicidal and antiemergence activity of filarial vector, *Culex quinquefasciatus* Say. 2000.
23. N. Vijayalakshmi - Impact of eucalyptus, cinchona, neem and lemon grass oil on the larvicidal, pupicidal and repellent effect on Dengue vector, *Aedes aegypti* (Linn.) - May, 2000.
24. R. Amsaveni - Studies on the butterflies' -host plant interactions, Western Ghats, Southern India- April 2002.
25. M. Vijyalakshmi - Studies on the effect of iron deficient leaves of mulberry on feeding, growth and economic parameters of silkworm, Bombyx mori - April 2002.
26. K. Sumitha- Biodiversity and Biological studies of Insects in Milkweeds (*Caloropis gigantea* and *Neriuim oleander*) – April, 2003.
27. Vidya Vasu – Host plant influence on the feeding, growth and reproduction of *Catopsilla florella* (Linn), *Catopsilia florella* (fab.) and *Eurema blanda* (Wallace) (Insecta: Lepidoptera: Pieridae) - April, 2003.
28. Sangeetha V. - Studies on the biodiversity of insects: Predator-parasitoid interactions and flower visitation papter of butterflies in Western Ghats, Tamil Nadu, Southern India April., 2003
29. R. Maheswari – Studies on the Weed and insect interactions, April, 2003.
30. M. Senthilkumar – Studies on the larvicidal and pupicidal effect of Jatropha curcas on the filarial vector, Culex quinquefasciatus Say., April, 2004.
31. S. Revathi - Botanical management of malarial vector (Anopheles stephensi) and Insect pests on medicinal plants, Apirl, 2004.

32. P. Venmathi - Biodiversity and flower visitation pattern of Butterflies and other insects in Maruthamalai hills, Western Ghats Southern India,. April 2004.
33. Vimala - Studies on the host plant influence on the development and reproduction of Aphis crassivora (Insecta: Homoptera: Apididae) and predatory efficiency of Hippodomia convergens (Insecta: Coleoptera: Coccinellidae) - April- 2005.
34. R. Umadevi – Studies on the effect of botanicals o the repellency, toxicity, growth and reproduction of bruchid beetle, Callosabruchus maculates (Insecta: Coleoptera: Bruchidae). April, 2005.
35. P. Sumathi – Studies on the larvicidal, pupicidal and smoke toxicity effect of *Solanum torvum* and *Solanum nigrum* on malarial vector, *Anopheles stephensi* Liston (Insecta:Diptera:Culicidae). April, 2005.
36. Jayaprakash - Studies on the larvicidal, pupicidal and repellency effect of *Citrus limonun*, *Citrus aurantium* and *Citrus sinensis* on malarial vector, *Anopheles stephensi* Liston (Insecta: Diptera: Culicidae), April, 2005.
37. S. Ramesh Kumar - Studies on the host plant (Artabatrys odoratissimus, Michelia champaca) feeding, growth and reproduction of *Graphium agamemnon* and *Graphium serpedon*. (Insecta: Lepidoptera: Papilionidae), April, 2005.
38. P. Haribalan – Studies on the larvicidal, Pupicidal and repellent effect of *Lantana camera*, Phyllanthus emblica and Tectona grandis against malarial vector, *Anopheles stephensi* Liston. (Insecta: Diptera: Culicidae). May, 2006.

39. T. Suganya – Studies on the effect of *Azadirachta indica*, *Mentha arvensis* and *Corianram sativum* on larvicidal, Pupicidal and repellency on *Aedes aegypti* (Insecta: Diptera: Culicidae). May, 2006.
40. Vadivel - Studies on the flower visitation pattern of honeybees, Apis dorsata, Apis florae and Apis cerana indica in relation to nector chemistry (Insecta: Hymenoptera: Apidae). May, 2006.
41. T. Sangeetha - Studies on the effect of neem oil, neem leaves extract and entomopathogenic fungi, *Beauveria bassiana* (Balsamo) on the larvicidal, Pupicidal and repellent properties against filarial vector, *Culex quinquefasciatus* say. (Insecta: Diptera: Culicidae). May, 2006.
42. K. Prabhu – Studies on the interactive effect of *Moringa oleifera* and spinosad for the control of Malarial vector, *Anopoheles stephensi* Liston, (Insecta: Deptera: Culicidae) and *Chironomus kiiensis* (Insecta: Deptera: Chironomidae). May, 2007
43. R. Nagamani – Studies on the effect of host plant, Endosulfan and Spinosad on the Toxicity and feeding biology of Butterfly, Pachliopta hector (Insecta: Lepidoptera: Papilionidae). May, 2007.
44. C. Jothi – Studies on the effect of *Crotalaria retusa*, Spinosad and Enosulfan on the toxicity, growth and development of Filarial vector, *Culex quinquefasciatus* say (Insecta: Diptera: Culicidae). May, 2007.
45. V. Mythili-Studies on the nutritional influence of host plant (*Aristolochia indica*) on Pachlipta hector and Pachliopta aristolochiae (Insecta:Lepidoptera: Papilionidae) April-2008
46. N. Umamaheswari - Studies on the combined effect of *Lowsonia inermis* and *Bacillus sphaericus* toxicity, growth and development on the malarial vector, *Anopheles stephensi* Liston. April – 2008

47. C. Ashokumar - Studies on the combined effect of *Cassia occidentalis* and *Bacillus spahericus* on toxicity, growth and development on the malarial vector, *Anopheles stephensi* Liston (Insecta: Diptera: Culicidae) April – 2008\
48. Amerasan - Studies on the effect of Nanoparticles on different host plants on feeding, biology and reproduction of cotton mealy bug, *Paracoccus marginatus* (Insecta: Hemiptera: Pseudococcidae). April – 2009
49. Salaudin S – Studies on Impact of Gold Nanoparticles and Neem (Azadirachtin) on the feeding biology of cotton mealy bug, *Paracoccus marginatus* (Insecta: Hemiptera: Pseudococcidae). April – 2009
50. T. Nataraj – Combined effect of NPV and Titanium dioxide on the feeding, growth and development of *Spodoptera litura* (Insecta: Lepidoptera: Noctuidae) April – 2009
51. S. Hemalatha – Studies on the impact of Gold Nanoparticle and Entomopathogenic fungi, *Metarhizium anisopliae* on the control of cotton mealy bug, *Paracoccus marginatus* (Insecta: Hemiptera: Pseudococcidae)\ April – 2009
52. P. Magesh kumar – Combined effect of Nanoparticles and Citrus oil for the control of filarial vector, *Culex quinquefasciatus* (Insecta: Diptera: Culicidae) April – 2009
53. C. Rejeeth – Combined effect of Nanoparticle and Camphor oil on Dengue vector, *Aedes aegypti* (Insecta: Diptera: Culicidae) April – 2009
54. V. Arun kumar - Combined effect of Nanoparticle and Glutharia oil on Malarial vector, Anopheles stephensi (Insecta: Diptera: Culicidae) April – 2009.

55. Shivapriya Shivakumar – Studies on the Antivectorial and Antiplasmodial activity of *Cassia occidentalis* on the malarial vector, *Anopheles stephensi* Liston and Malarial parasite, *Plasmodium falciparam* – 2010
56. Pravina G. Studies on the effect of *Andrographis paniculata* on the larvicidal, pupicidal and repellent activity on the malarial vector, (*Anopheles stephensi*) and Antiplasmodial activity on Malarial Parasite, *Plasmodium falcifarum* -2010
57. Kalimuthu K. - Studies on the combined effect of *Pelectranthus amboinicus*, *Bacillus spaheriucs* and copepode, *Mesocyclops aspericornis* for the control of Dengue vector, *Aedes aegypti* – 2010
58. J.Subramaniam – Studies on the Integration of Aloe Vera, Microbial Insecticide, *Bacillus thuringiensis* (Bti) and Copepode, *Mesocyclops aspericornis* for the Control of Dengue vector, *Aedes aegypti* – 2010
59. M.Banupriya – Studies on the Mosquitocidal Activity of *Euphorbiah h*irta on the Malarial Vector (*Anopheles stephensi*) and Antiplasmodial Activity Against Malarial Parasite (*Plasmodium falciparum*) – 2010
60. K. Sudha, Studies on the effect of pesticides on the feeding biology, food utilization and reproduction of Pachliopta hector (Papilionidae: Lepidoptera: Insecta) ,2011
61. P. Aruna, Studies on the effect of Glutheria oil and *Agave sisalana* leaf extract on the larvicidal, pupicidal and repellent activities on filarial vector, *Culex quinquefasciatus* (Insecta: Diptera: Culicidae), 2011
62. A.Priya, Studies on the effect of neem oil and *Musa paradisiaca* extract on the larvicidal, pupicidal and repellent activities on malarial vector, *Anopheles stephensi* (Insecta: Diptera: Culicidae), 2011

63. P. Rajesh, Molecular cloning and expression of glyceraldehydes-3-phosphate dehydrogenase gene in E.coli and purification of fusion protein, 2011

64. Rani cathrine, Molecular characterization of Nilgiris sheep (Ovis aries) using microsatellite markers, 2011

65. K. Pavithra shri, Studies on green synthesis of silver nanoparticles using *Cassis occidentalis* against malarial vector *Anopheles stephensi* and malaria parasite (*Plasmodium falciparum*), 2011

66. K. Agalya priyadarshni, Studies on the antivectorial and antiplasmodial activity of green synthesized silver nanoparticle using *Euphorbia hirta* against the malarial vector *Anopheles stephensi* and malaria parasite (*Plasmodium falciparum*), 2011

67. S. Ponarulselvam, Studies on the efficiency of green synthesized silver nanoparticles using *Andrographis paniculata* and *Catharanthus roseus* against the malarial vector *Anopheles stephensi* and malaria parasite, *Plasmodium falciparum,* 2011

68. S. Sivapriya jothi (2012) Studies on the anti vectorial and antiplasmodial activity *Leucas aspera* on the malarial vector, A*nopheles stephensi* and malarial parasite *Plasmodium falciparum*

69. N.A. Suganya (2012) Studies on the anti vectorial and antiplasmodial activity *Murraya koenigi* on the malarial vector, *Anopheles stephensi* and malarial parasite *Plasmodium falciparum*

70. S. Christina Mary (2012) Potential anti-vectorial and antiplasmodial of green synthesized silver nanoparticles using *Adiantum capillus-veneris.*

71. M.Roni (2012) Synthesis of plant mediated silver nano particles using extract against *Anopheles stephensi* and *Plasmodium vivax*

72. D.Dinesh (2012) Anti vectorial and antiplasmodial activity of bio synthesized silver nano particles using *Aloe vera*

73. S. Vivek (2012) Biological synthesis of silver nano particles using *Acalypa indica* leaf extracts and its antimalarial and antiplasmodial activity against *Plasmodium falciparum*

74. S. Priya (2012) Green synthesis of silver nano particles from *Calotropis gigantea* against anti vectorial and antiplasmodial activity on *Anopheles stephensi* and malarial parasite *Plasmodium falciparum*.

75. J.P Jenil Kumar (2012) Biosynthesis of plant mediated silver nano particles using *Datura metal* extract against malarial vector, *Anopheles stephensi* and malarial parasite *Plasmodium falciparum*.

76. B. Chandramohan (2013) Effect of Neem seed kernel fraction on the reproduction of *Spodoptera litura*.

77. S. Preethi (2013) Effect of Neem seed kernel fraction on the feeding strategis of *Spodoptera litura*.

78. S. Shini (2013) Effect of Neem seed kernel fraction on the Developmental changes of *Spodoptera litura*.

79. M. Aamina Labeeb, Plant (*Aristolochia indica*) mediated synthesis of silver nanoparticles for the control of malarial vector, *Anopheles stephensi*.

80. J. Eugine Venus, Plant (*Toddalia asiatica*) mediated synthesis of silver nanoparticles for the control of filarial vector, *Culex quinquefasciatus*.

81. U. Suresh, Mosquitocidal properties of green synthesized silver nanoparticles using *Phyllanthus niruri.*

82. R.Rezeena, Novel comprehensive analysis of cytogenetic and molecular abnormalities in ampullary carcinoma.

83. M. Jagathish, (2015) Studies on predatory efficacy of anisops sardea and bio synthesis of silver nanoparticle using *Brugaria cylindrical* against filarial vector, *Culex quinquefasciatus*.
84. Rakesh, (2015) Studies on the bio synthesis of silver nanoparticles using *Sonneratia alba* against dengue vector and predatory potential of dragon fly, *Bradynopyga geminate* and *Pantala flavescens* on *Aedes aegypti*.
85. Shanthi A, (2016) Studies on the phytochemical analysis and green-synthasized copper nanoparticles from *Dodonaea angustifolia* against malarial vector, *Anopheles stephensi* and *Plasmodium falciparum*.
86. Ayyanar K, (2016) Studies on biosynthesis of silver nanoparticles using *Leucogaricus leucothitics* against dengu vector, *Aedes aegypti.*
87. Vanitha M, (2016) Larvicidal, pupicidal, adulticidal and repellent potential of iron nanoparticles synthesized using *Ficus natalensisagainst* filarial vector, *Culex quinequefasciatus.*
88. Rogeswari M, (2016) Nanocapsulation of cadmium nanoparticles mediated by passiflora: an ecofriendly approach to control filarial vector, *Culex quinequefasciatus.*
89. Kiruthika M, (2016) Nanoencapsulation of titanium dioxide nanoparticles mediated by *Argemone mexicana*; an ecofriendly approach to control dengue vector, *Aedes aegypti*
90. Anoop VK, (2016) Studies on the biosynthesis of silver nano particles mediated by *Coriolus versicolor* against malarial vector, *Anopheles stephensi* and the influence of host plants on feeding, growth and reproduction of *Troides minos.*
91. Anila P Ashokan. (2016) Studies on the zinc oxide (ZnO) nanoparticles using Myristica fragrans against dengue vector (Aedes aegypti) and anti-proliferative activity in liver cancer (HepG2) cells.

COLLABRATIVE RESEARCH PROJECTS:

NATIONAL COLLABORATIONS:

- Defence Research Laboratory, (DRDO, Govt., of India) Tezpur, Assam on Mosquito Control by use of botanical and microbial insect control.
- National Chemical Laboratory, Pune (CSIR, GOVT. OF INDIA). Nanopesticides.

INTERNATIONAL COLLABORATIONS:

- **Project title**: 1. Impact of NPV (nuclear polyhydrosis virus) and neem on the control of *Spodoptera litura* Fab. **Collaborator:** Professor. Dr. W.Q. Zhang, State Key Laboratory, Sun Yat-Sen University, Guangzhou, P.R. China.

- **Project title**: 2. Quantification of infestation of leguminous seeds by Bruchid beetles. **Collaborator:** Dr. Midori TUDA, Institute of Biological Control, Faculty of Agriculture Kyushu University, Fukuoka 812-8581, Japan.

- **Project title: 3**. Natural product-based toxicants for arthropod vector control: discovery, development, efficacy, and application. **Collaborator:** Dr. Donald R. Barnard, Ph.D. Research Entomologist, USDA-ARS-CMAVE, 1600 SW 23rd Drive, Gainesville, FL 32608, USA.

- **Project title: 4.** "Vector-borne disease control by community participation and natural products in rural enviornments: one tool, three cultures", **Sponsoring Agency**: Perez-Guerrero Trust Fund for South-South Cooperation, United Nations in New York, Executive Secretariat of the

Group of 77, UN Headquarters, Room L-2077 New York, NY 10177, USA; **Collaborators: Dr. K. Murugan**, Bharathiar University, India, **Dr. Oscar Daniel Salomon,** Centro Nacional de Diagnóstico e Investigación en Endemo-epidemias, Av. Paseo Colón 568, Buenos Aires, Argentina and **Dr. Musoke David,** Makerere University, Kampala, Uganda (East Africa).

11. VISITS TO FOREGIN COUNTRIES:

- 28 June 1992 to 03 July 1992 - Department of Zoology, Trinity College, University of Dublin, Ireland. Attended the 6th International Congress on Invertebrate Reproduction and also visited Department of Zoology, Trinity College, Dublin and Zoology museum at the University

- 10 Jan. 1996 to 11 Jan. 1997 (one year) - National Institute of Sericultural and Entomological Science at Tsukuba (Science City), Ibaraki, 305, Japan. To work on the synergistic effect of neem limonoids, *Vitex negundo* and *Pongamia pinnata* on the feeding, growth and reproduction of *Spodoptera litura* (Noctuidae: Lepidoptera)

- 13 Oct. 1997 to 22 Oct. 1997, Ministry of Forestry, Turkey and FAO (Italy) at Antalya, Turkey. To attend the World Forestry Congress and also visited University of Antalya and University of Istanbul, Turkey.

- 16 Nov. 1997 to 21 Nov.1997 - Department of Biology, University of Waseda, Tokyo, Japan. To attend the 13th International Congress of Comparative Endocrinology, Yokohama, Japan and also visited, Department of Biology Waseda University, Japan. Visited stored product Entomology Laboratory at National Food Research Institute, Tsukuba,

Japan and also visited Department of insect Physiology and Behaviour, National Institute of Sericultural and Entomological Science, Tsukuba, Japan.

- October 2000 to 30 September 2001 – Department of Zoology, University of Oxford, United Kingdom- To work on the Nutrient and allelochemical interaction on Locust and impact of transgenic plant on insect behaviour under the Commonwealth Fellowship Programme.

- 4 August 2001 to 10 August 2001 - attended the 11th International Symposium on Insect-Plant Relationships was held in Helsingor, Denmark. Presented a paper entitled "A geometric analysis of nutrient-alkaloid interactions: a case study using the African migratory locust"

- 7 August 2001 – visited Sweden: Scientific visit to see plant breeding at Svalof Weibull AB, 268 81 Svalov, Sweden and made field tour to observe biomass of the Willow plant. Visited the laboratory and observed laboratory tests for diseases and insects and application of molecular markers in resistance breeding.

- 27 August 2001 to 31 August 2001 – attended the German Ecological Congress at University of Basel, Switzerland.
- 29th October to 4th October, 2002 - attended the 5th International congress of Dipterology held at the University of Queensland, Brisbane, Australia from 29th September to 4th October, 2002 and presented the paper entitled "Botanical management of filarial vector, *Culex quinquefasciatus* Say."

- 6th and 7th October 2002 - visited the Insect Toxicology Laboratory, School of Biological Sciences, Singapore National University, Singapore.

- 10th - 15th July, 2004- to be visited the University of Jyvaskyla, Finland to present the paper entitled "Host plant selection foraging strategies of caterpillar (*Danaus chrysippus*) and grasshopper (*Poecilocerus pictus*) at the 10th International Conference on Behavioural Ecology.

- 1st Nov-7th November, 2004. Visited Department of Entomology, College of Agriculture, National Taiwan University to make collaborative research on the mosquito control and delivering lectures from 1-7, November, 2004. Collaborator Professor S.B. HORNG

- 2nd -7th October, 2005 - Attended 7th International Conference on Aphids at Fremantle, Australia and presented paper entitled "Host plant nutritional influence on the growth and reproduction of cotton Aphid, *Aphis gossypii* Glover and predatory efficiency of *Hippodamia convergens'*.

- 2nd - 4th November, 2005 - Attended JIST - UNU (UNITED NATIONS) WORK WORKSHOP on "New Trends in Biotechnological and Geochemical Approaches for Sound management of Hazardous Chemicals" at Gwangju Institute of Science and Technology, Gwangju, Korea

- 5th and 6th - November, 2005 - Visited Chonnam National University, Korea and delivered lecture on Botanical control of insects.

- 23rd - 28 - September, 2006 - will be visiting Fukuoka, Japan to attend 6th International Congress of Dipterology and to present special lecture on "BOTANICAL CONTROL OF MOSQUITO VECTORS" at the Congress.

- 10th May to 10th July, 2007 - Awarded CAS-TWAS fellowship programme at the Institute of Zoology, Chinese Academy of Sciences, Beijing, at worked on the ElevatedCO_2InsectPlantInteractions

  (http://www.twas.org.cn/twas/winners2006.asp)
- 10th Feb. 14th Feb. 2008. Awarded travel fellowship from Sultan Qaboos University to attend Mountains of the World at the Sultan Qaboos University from 10th to 14, Feb., 2008.
- 24th May - 29th May, 2009 - International Forum for Surveillance and Control of Mosquitoes and Mosquito-Borne Diseases Beijing, China, May 25-28, 2009.
- 30th May - 2nd June, 2009 - Visited Nanjing Agricultural University and delivered a special lecture on "Botanical microbial control of Insects" at Department of Entomology, Nanjing Agricultural University, China.
- 3rd June - 5th June, 2009 - Visited the University of Honkong, Hongkong and delivered lecture on "Chemical ecology of butterflies and biodiversity conservation at the Department of Ecology and Biodiversity at the School of Biological Scienes, the University of Hongkong on 3rd June, 2009.
- 4th June, 2009 - Visited the Department of Biology and Chemical Technology, Hongkong Polytechnic University and delivered lecture on the "Development of insecticidal plant products for the management of Mosquito Vectors".
- International Forum on Water Resources and Sustainable Development, and attend "International Forum on Water Resources and Sustainable Development" to be held at Wuhan University, China during September 22-24, 2009 and present a Invited paper on "Sustainable mosquito

management and water purification using botanicals in different aquatic ecosystem".

- Institute of Marine Biology National Taiwan Ocean University, Keelung, Taiwan, to attend International Conferences (1) Dormancy in crustaceans: basic research and applied science conference will be held on Oct. 6 and Oct. 7 Morning. (2) Zooplankton Behavior, Ecology and Aquaculture Conference will be held from Oct. 7 Afternoon and Oct. 8, 2009 to present a invited paper on "Use of Plant Products And Copepod For The Control Of Dengue Vector, *Aedes Aegypti.*
- Visiting Fellow - Laboratory of Molecular and Cellular Parasitology, Department of Microbiology, National University of Singapore, Singapore 117597 from 9-14, October, 2009.
- 6th Asia-Pacific Congress of Entomology (APCE) will take place from October 18-22, 2009 in Beijing, China to present invited talk on Insect Conservation, Biodiversity & Climate Change.
- Visiting Fellow Institute of Plant Protection, Fujian Academy of Agricultural Sciences, Fuzhou, Fujian 350013, People's Republic of China, from 23-25, October, 2009.
- Visiting Fellow, Ecological Environment Protection Research Institute, Shanghai Academy of Agricultural Sciences, Shanghai, 201106, P.R. China from 26-28, October, 2009.
- Travel Award from the Organiser of the 4th Asian Congress of Tropical Medicine and Parasitology, 2-4, June, 2010 at Singapore, Organised by Singapore Society of Microbiology and Biotechnology, Environmental Health Institute, Singapore and to present a paper on "Mosquitocidal

effect of *Andrographis paniculata*, *Euphorbia hirta* and *Cassia occidentalis* on Malarial Vector, *Anopheles stephensi.*

- Travel Award from the Organiser of the 10th International Working Conference on Stored Product Protection, 27 June-2 July 2010, Portugal, Estoril Congress Center. Presented paper on "Bioefficacy of plant derivatives on the repellency, damage assessment and progeny production ofthe cowpea weevil, *Callosobruchus maculatus* (F) (Coleoptera: Bruchidae)"to 10th IWCSPP Proceedings.
- Awarded travel Fellowship from Organisers and ICMR, Govt. of India, New Delhi as Invited Speaker for the talk on "Integration of Botanical and Microbial Insecticides for the Sustainable Management of Mosquito Vectors of Malaria, Filariasis, Dengue and Chikungunya at the Tsunami affected areas of Tamil Nadu and Pondicherry, India". 11th World Congress on Environmental Health held at the Westin Bayshore Resort and Marina (1601 Bayshore Drive, Vancouver, BC) in Vancouver, British Columbia, Canada from September 5th to 10th 2010.
- Awarded fellowship through Program Enhancement Fund from the Organizer as Invited speaker for the Entomology Annual Meeting, 2010 at San Diego, California, USA and presented two papers:
- Use of botanicals for the sustainable management of dengue mosquito vector, *Aedes aegypti*
- Use of neem extracts and microbial insecticides for sustainable management of cotton bollworm, *Helicoverpa armigera.*
- CREST AWARD from Department of Biotechnology, Government of India, New Delhi to work at USDA-CAMVE, Florida, USA USDA-ARS-

CMAVE,1600 SW, 23rd Drive Gainesville, FL 32608 USA for three months from May, 2011 to August, 2011

- Attended International Congress on Invertebrate Pathology and Microbial Control & 45th Annual Meeting of the Society for Invertebrate Pathology, will held from August 5 to 9, 2012 at the Convention Center of the Universidad Católica Argentina (UCA), Puerto Madero, Buenos Aires, Argentina.
- Attended National Science Council Biodiversity Research Programe, from 3-4 October, 2012 at Kending, Taiwan.
- Attended The Second Cross – Straits Workshop on Marine Biodiversity, at National Taiwan Ocean University, Keelung, Taiwan, 12-14, October, 2012.
- Attended 13th International Conference in Wetlands Systems for Water Pollution Control, From 25th – 29th November 2012, Australia
- Chair - "International Conference on Challenges in Aquatic Sciences". Theme 1: Sustainability in the Aquatic Environment, at 09:30-10:30 on Mar-16 (Sat.), held at National Taiwan Ocean University, Keelung, Taiwan from 15-18, March, 2013.
- Chair - at Symposium (1): BCGC and Biodiversity: Department of Zoology, School of Life Sciences, Bharathiar University, India and Delivered Invited Lecture on "*Impact of climate change on the conservation and management of agricultural and medical and veterinary insects" at International* Symposium of *Integrative Zoology*. *Beijing*, China, 25–28 June 2013.

- Kenthoth Adiyodi Memorial Lecturer at Thirteenth International Congress on Invertebrate Reproduction and Development (ICIRD-2013), July 14 – 19, 2013, Detroit, MI, USA.
- Organiser - Symposium on Medical Implications of Invertebrates at Thirteenth International Congress on Invertebrate Reproduction and Development (ICIRD-2013), July 14 - 19, 2013, Detroi MI, USA.
- Attended and presented paper at the conference on Butterfly Research Conference at National Taiwan Ocean University at Taipei Zoo, October, 2013.
- Chief Guest/Key Note Speaker - National Conference on Entomofaunal Resources and Conservation in Western Ghats, Southern India, Victoria Govt. College, Palakad, Kerala, India during 18-19, November, 2014.
- Sessions: Predatory Copepods - The 12th International Conference on Copepoda July 14th-18th, 2014; Hanyang Institute of Technology (HIT); Hanyang University; Seoul, Korea.
- Invited lecturer on "Antivectorial, antimalarial and antidengue properties of plant compounds" Arranged by Zoological & Ecological Research Network (ZEN), Institute of Biological Sciences, Faculty of Science, University of Malaya, 15 Dec 2014 (Monday).
- Invited Lecture on "Mosquito Enemy Number One - An Experimental Approach Invited by Prof. Dr. Wenqing Zhang, School of Life Science, Sun Yat-Sen University, Guangzhou, Guangdong 510006
- Invited talk at International workshop on Aquatic Ecology and Environmental Biotechnology, December 18-21, 2014; Guangzhou, China. Title "Sea Weed Mediated Nanoparticle (*Caulerpa scalpelliformis*) and

Predatory Copepod, *Mesocyclops Aspericornis* for the Control of Coastal Malarial Vector, *Anopheles sundaicus*"

PARTICULARS OF MEMBERSHIP IN SCIENTIFIC BODIES

1. Member of Orthopterists Society, Department of Biological Sciences, Wayne State University, Detroit, MI 48202, USA.
2. Elected invited Member, The New York Academy of Science. 2. East 63rd Street, New York, USA.
3. Active Member in International Commission for Plant-Bee Relationships working Group, France.
4. Active Member of Society of Biological Control. Tamil Nadu Agricultural University Coimbatore - 641 003, India.
5. Active Member in world-wide Fund for Nature, India.
6. Active Member in Nilgiri Wild Life and Environment Association, Nilgiris, India.
7. Active Member in Zoo Outreach Organisation, Coimbatore, India.
8. Active Member in Indian Association of Invertebrate Reproduction, Madurai Kamaraj University, Madurai, India.
9. Active Member in Indian Society of Comparative Endocrinology and Reproductive Biology, University of Madras, Madras, India.
10. Society of Biopesticide Sciences, India.
11. Invertebrate Pollinator Network of South Asia, a project of the South Asian. Invertebrate Specialist Group (SAsISG) IUCN SSC, ICINSA (www.zooreach.org/Networks/Invertebrate/IPNSA%20Directory.pdf).
12. Life Member – Indian Microbiology Society, University of Delhi, India

AWARDS/FELLOWSHIPS WON

1. Awarded Travel Fellowship from Department of Science and Technology, Govt. of India and University Grants Commission, Govt. of India, and Trinity College, University of Dublin to attend the 6th International Congress on Invertebrate Reproduction at Dublin, Ireland (1992).

2. Selected from Department of Science and Technology, Government of India as a DATA BASE EXPERT FOR LIFE SCIENCES (1993).

3. Awarded Young Scientist Fellowship from Indian Council of Medical Research, Government of India to attend the National Symposium on Frontiers on Reproductive Biology at Central Drug Research Institute, Lucknow, India from 03-04th March 1995.

4. STA (Science and Technology Agency) fellowship Awarded by Research Development Corporation of Japan, Japan to work on the "Synergistic effect of neem limonoids, *Vitex negundo* and *Pongamia pinnata* on the feeding growth and development of *Spodoptera litura* Fab." to work at Department of Insect Physiology and Behaviour, National Institute of Sericultural and Entomological Science, Japan, from Jan. 1996 to Jan. 1997.

5. Travel Fellowship Award from FAO (Food and Agricultural Organisation) Italy to attend and present a paper on "Neem as a potential natural insecticide to control of Teak pests, at World Forestry Congress held at Antalya, Turkey during 13-22 October 1997.

6. Awarded Travel Fellowship Award from Dan Charitable Trust Fund Research for Biological Sciences, Tokyo, Japan to attend the 13th International Congress on Comparative Endocrinology, Yokohama, Japan during 16 to 21st November 1997.

7. Best Research paper award and International Travel Award for the paper entitled "Potential enhancement of *Helicoverpa armigera* (Lepidoptera: Noctuidae) Nuclear polyhedrovirus with Triterpene Azadirachtin on the mortality, food utilization and development in relation to control strategy" (Subsequently it has been published in the Tropical Agricultural Research, 10: 324-333, 1998) by Postgraduate Institute of Agriculture University of Peradeniya, at Tenth Annual Congress, P.O. Box. 55, Peradeniya, 20400, Sri Lanka. International Travel Award has been awarded for the author. One of the authors Dr. N. Senthil Kumar presented the paper at the Conference, 19-20, November 1998 at University of Peradeniya, Sri Lanka.

8. Awarded a Commonwealth Fellowship by the Association of Commonwealth Universities in the United Kingdom for the year 2000 to work on impact of transgenic plants on insects at Department of Zoology, University of Oxford, UK for one year from October 2000 to September 2001.

9. Awarded Travel fellowship from the Organisers, the 5th International Congress of Dipterology, the University of Queensland, Brisbane, Australia and CSIR and DST, New Delhi to attend the 5th International congress of Dipterology held at the University of Queensland, Brisbane, Australia from 29th September to 4th October 2002.

10. Awarded Travel fellowship scheme from the Bharathiar University, (from UGC unassigned grant, and Indian National Science Academy, New Delhi, India), and International Behavioural Ecology Society to attend the 10th Behavioural Ecology Conference at University of Jyvaskyla, Finland from 10-15, July, 2004.

11. Awarded Visiting Fellowship from National Science Council of Taiwan to visit Department of Entomology, College of Agriculture, and National Taiwan University to make collaborative research on the mosquito control and delivering lectures from 1-7, November, 2004.

12. Awarded Visiting Fellowship from Mohidol University, Bangkok, Thailand to visit Centre for Vectors and Vector Borne Diseases (WHO HEALTH ORGANISATION REGIONAL CENTRE), Bangkok, Thailand for the mosquito control joint work on 8th and 9th November, 2004.

13. Awarded Visiting Fellowship programme-JIST- UNU WORK WORKSHOP on "New Trends in Biotechnological and Geochemical Approaches for Sound management of Hazardous Chemicals" at Gwangju Institute of Science and Technology, Gwangju, Korea during 13. 2nd - 4th November, 2005.

14. Awarded Invited Fellowship Programme - 6th International Congress of Dipterology and to present special lecture on "BOTANICAL CONTROL OF MOSQUITO VECTORS" at the Congress during 23rd - 28 - September, 2006 at Fukuoka, Japan

15. CAS-TWAS Fellowship Awardee 2006 - In the field of Agricultural Sciences - (http://www.twas.org.cn/twas/winners2006.asp) - Climate

Change Training Programme, Institute of Zoology, Chinese Academy of Sciences, Bejing, China, 10/7/2007 to 11/7/2007

16. Awarded Travel Fellowship from Sultan Qaboos University to attend Mountains of the World at the Sultan Qaboos University from 10th to 14, Feb., 2008.

17. Awarded Travel Fellowship from Dept. of Science and Technology, New Delhi, The Centre for Cooperation in Science and Technology among Developing Societies (CCSTDS), Chennai, India and International Forum on Mosquito Surveillance to attend International Forum for Surveillance and Control of Mosquitoes and Mosquito-Borne Diseases Beijing, China, May 25-28, 2009.

18. Awarded Travel Fellowship from the International Forum on Water Resources and Sustainable Development, and attend "International Forum on Water Resources and Sustainable Development" to be held at Wuhan University, China during September 22-24, 2009 and present a Invited paper on "Sustainable mosquito management and water purification using botanicals in different aquatic ecosystem".
19. Awarded Best Faculty Award for Bio-Science (2009) from Sourthern India, Awarded by Nehru Group of Institution, Bharathiar University, Coimbatore, India. It Carries Citations, medal, and Rs.10,000/- Cash Award.
20. Travel Grant Awarded from Institute of Marine Biology National Taiwan Ocean University, Keelung, Taiwan, to attend International Conferences (1) Dormancy in crustaceans: basic research and applied science conference will be held on Oct. 6 and Oct. 7 Morning. (2) Zooplankton Behavior, Ecology and Aquaculture Conference will be held from Oct. 7 Afternoon

and Oct. 8, 2009 to present a invited paper on "Use Of Plant Products And Copepod For The Control Of Dengue Vector, *Aedes Aegypti.*

21. Travel Award from the Organising Committee of the 6th Asia-Pacific Congress of Entomology (APCE) will take place from October 18-22, 2009 in Beijing, China to present invited talk on INSECT CONSERVATION, BIODIVERSITY & CLIMATE CHANGE.
22. Travel Award from the Organiser of the 10th International Working Conference on Stored Product Protection, 27 June-2 July 2010, Portugal, Estoril Congress Center. Presented paper on "Bioefficacy of plant derivatives on the repellency, damage assessment and progeny production of the cowpea weevil, *Callosobruchus maculates* (F) (Coleoptera: Bruchidae)" to 10th IWCSPP Proceedings.
23. Post-doctoral Award from National Science Council, Taiwan Fund to work with Institute of Marine Biology National Taiwan Ocean University, Keelung, Taiwan for the period of 20th May, 2010 to 1st June, 2010. The research task include on the use of plant chemicals and biological organisim copepods for the control of mosquito larvae in and around Taiwan.
24. Funded by the Organizers of the conference, Singapore Society for Microbiology and Biotechnology (SSMB) THE FOURTH ASEAN CONGRESS OF TROPICAL MEDICINE AND PARASITOLOGY, 2–4 JUNE 2010, SINGAPORE and presented the paper on "Larvicidal, pupicidal and smoke repellent properties of botanicals on malarial vector, *Anopheles stephensi* Liston".
25. Awarded Travel Fellowship from Organisers and ICMR, Govt. of India, New Delhi as Invited Speaker for the talk on "Integration of Botanical and

Microbial Insecticides for the Sustainable Management of Mosquito Vectors of Malaria, Filariasis, Dengue and Chikungunya at the Tsunami affected areas of Tamil Nadu and Pondicherry, India". 11th World Congress on Environmental Health to be held at the Westin Bayshore Resort and Marina (1601 Bayshore Drive, Vancouver, BC, BC) in Vancouver, British Columbia, Canada from September 5th to 10th, 2010.

26. Awarded Travel to attend from the organiser of the Clmiate Change and Environmental Management Symposium from 29-30, November, 2010 at Universitad Nacional Autonoma de Mexico (UNAM) Mexico and presented paper on "effect of climate change on the mosquito vectors".

27. Awarded Fellowship through Program Enhancement Fund from the Organizer as Invited speaker for the Entomology Annual Meeting, 2010 at San Diego, California, USA for the titled "Use of Novel Insecticides for the control of cotton insect pests and sustainable management of predator and Parasitoids system.

28. Awarded Travel Fellowship from organisers from AVRDC, Taiwan for the Conference on 6th International DBM Workshop, Nakhon Pathom, Thailand, March 21-25, 2011The Sixth International Workshop on Management of the Diamondback Moth and Other Crucifer Insect Pests will be organized by AVRDC - The World Vegetable Center and its Regional Office for East and Southeast Asia, Thailand in association with Kasetsart University (Thailand) and Cornell University (USA).

29. Travel Award from CSIRO, Australia for the GREENHOUSE2011, The Science of Climate Change - at Cairns, 4-8, April, 2011, Australia.

30. CREST AWARD from Department of Biotechnology, Government of India, New Delhi to work at USDA-CAMVE, Florida, USA USDA-ARS-CMAVE,1600 SW, 23rd Drive Gainesville, FL 32608 USA for three months from May, 2011 to August, 2011.

31. Awarded UGC - One Time Grant (Rs. 7,00,000/-) from University Grants Commission, Government of India, New Delhi under the Basic Science Research Programme (BSR) for supervising higher number of Ph.D. thesis.

32. Awarded Travel Grant from World Meterological Organisatin, Swtizerland to attend WCRP Open Science Conference, Denver, CO, USA from 24-28, October, 2011.

33. Chris Lomer Award to attend International Congress on Invertebrate Pathology and Microbial Control & 45th Annual Meeting of the Society for Invertebrate Pathology, will be held from August 5 to 9, 2012 at the Convention Center of the Universidad Católica Argentina (UCA), Puerto Madero, Buenos Aires, Argentina, and Use of microbial insecticides for the control of filarial vector, *Culex quinquefasciatus.*

34. Awarded AustAid - Attended 13th International Conference in Wetlands Systems for Water Pollution Control, From 25th - 29th November 2012, Australia.

35. Honour - Kenthoth Adiyodi Memorial Lecturer at Thirteenth International Congress on Invertebrate Reproduction and Development (ICIRD-2013), July 14 – 19, 2013, Detroit, MI, USA.

36. Organiser - Symposium on Medical Implications of Invertebrates at Thirteenth International Congress on Invertebrate Reproduction and Development (ICIRD-2013), July 14 - 19, 2013, Detroit, MI, USA.

UNIVERSITIES/INSTITUTES VISITED AT ABROAD

Invited Lectures and Grants from Foreign Countries for conference/Research

S.No.	Institutions visited	Period		Own Expenses / Funded by	Qualification if any acquired	Experience if any gained
		From	To			
1.	Trinity College, Dublin, Ireland (1992).	28 June 1992	03 July 1992	DST and Trinity college, Dublin	Certificate received	Newer knowledge on Research and Development
2.	University of Tsukuba, Tsukuba, Japan (1995).	10 Jan. 1996	11 Jan. 1997	Dan Res. Foundations, Japan and Bharathiar University	Certificate received	Newer knowledge on Research and Development
2. a.	Pesticide Research Centre, Kyoto University, Kyoto, Japan	15th October, 1996	30th October, 1996	JISTEC, Government of Japan	Research Visit	Newer Knowledge pesticide usage for insect control.
3.	University of Waseda, Tokyo, Japan (1995).	16 Nov. 1997	21 Nov. 1997	Dan Res. Foundations, Japan and Bharathiar University	Visiting and delivering lecture	Newer knowledge on Research and Development
4.	National Institute of Sericulture and Entomological Sciences, Japan (1996).	16 Nov. 1997	21 Nov. 1997	JISTEC, Japan	Certificate Received	Newer knowledge on Research and Development
5.	National Food Research Institute, Tsukuba, Japan (1996).	16 Nov. 1997	21 Nov. 1997	JISTEC, Japan	Visiting	Newer knowledge on Research and Development

6.	Akdeniz University Faculty of Agriculture Department of Plant Protection Antalya /Turkey	21 Oct 1997	23 Oct. 1977	Food and Agricultural Organisations (FAO), Italy	Laboratory Visit	Newer knowledge on Research and Development
7.	The University of Oxford, Oxford, UK (2000).	1 Oct. 2000	30 Sep. 2001	Commonwealth Secretariat, London, UK	Certificate received	Newer knowledge on Research and Development
8.	Research Institute, Svalof Weibull AB, 268 81 Svalov, Sweden	9Aug. 2001	9 August 2001	British Council London, UK	Technical Visit	Newer knowledge on Research and Development
9.	Faculty of Science, Lund University Box 117 S-221 00 Lund Sweden	9 Aug. 2001	9 August 2001	British Council London, UK	Technical Visit	Newer knowledge on Research and Development
10.	Department of Biology and Chemistry, Royal Veterinary and Agricultural University (KVL) Denmark	10 Aug. 2001	10 August 2001	Royal Veterinary and Agricultural University (KVL) Denmark	Scientific Visit	Newer knowledge on Research and Development
11.	University of Basel, Switzerland (2001).	27 Aug. 2001	31 Aug. 2001	University of Basel, Switzerland.	Certificate received	Newer knowledge on Research and Development
12.	Singapore National University, Singapore (2002).	6 Oct. 2002	7 Oct. 2002	CSIR, and DST, New Delhi, India	Visiting and delivering lecture	Newer knowledge on Research and Development
13.	University of Queensland, Brisbane, Australia (2002).	29 Sep. 2002	4 Oct. 2002	CSIR, and DST, New Delhi, India	Certificate received	Newer knowledge on Research and Development
14.	Griffith University, Brisbane, Australia (2002).	29 Sep. 2002	4 Oct. 2002	CSIR, and DST, New Delhi, India	Lab Visit	Newer knowledge on Research and Development
15.	National Taiwan University, Taipei, Taiwan (2004).	1 Nov. 2004	7 Nov. 2004	Natl. Sci., Council, Taiwan	Research work	Newer knowledge on Research

16.	Mohidol University, (WHO Centre) Thailand (2004).	8 Nov. 2004	9 Nov. 2004	Natl. Sci., Council, Taiwan	Research work	Newer knowledge on Research and Development
17.	The University of Helsinki Helsinki, Finland. (2004).	2 Nov. 2005	4th Novemb er, 2005	University of Jyväskylä, Finland	Visiting	Newer knowledge on Research and Development
18.	University of Jyväskylä, Finland (2005).	10 Jul. 2004	15 July 2004	University of Jyväskylä, Finland	Certificate received	Newer knowledge on Research and Development
19.	Chonnam National University, Gwangju, South Korea (2005).	5 Nov. 2005	6th Nov., 2005	United Nations and GIST, South Korea	Delivering lecture	Newer knowledge on Research and Development
20.	Gwangju Institute of Science and Technology (GIST), Gwangju, Korea(2005)	2 Nov. 2005	4th Nov, 2005	United Nations and GIST, South Korea	Certificate received	Newer knowledge on Research and Development
21.	Sun Yat-sen University Guangzhou, P.R. China. (2005)	2 Oct. 2005	7th Oct., 2005	SunYat-sen University Guangzhou, P.R. China. (2005)	Delivering lecture	Newer knowledge on Research and Development
22.	The University of Tokyo, Japan (2006).	21 Sep. 2006	22 Sep. 2006	DST, New Delhi and Kyshu University	Delivering lecture	Newer knowledge on Research and Development
23.	Kyshu University, Japan (2006).	23Sep. 2006	28th Septemb er, 2006	DST, New Delhi and Kyshu University	Certificate received	Newer knowledge on Research and Development
24.	Beijing University, Beijing, China (2007).	10May, July 2007	11th May July, 2007	CAS-TWAS, China and Italy	Visiting	Newer knowledge on Research and Development
25.	Beijing Agricultural University, Beijing, China (2007).	13May July, 2007	15th May July, 2007	CAS-TWAS, China and Italy	Visiting	Newer knowledge on Research and Development

26.	Institute of Zoology, Chinese Academy of Sciences, Beijing, China(2007)	17 May July2007	18th May July, 2007	CAS-TWAS, China and Italy	Certificate received	Newer knowledge on Research and Development
27.	Sultan Qaboos University, Muscat, Oman (2008)	10th Feb., 2008	14th Feb., 2008	Dept. of Envt. Sultan Qaboos University, Muscat, Oman	Certificate received	Newer knowledge on Research and Development
28.	School of Biological Sciences, the University of Hongkong (May,2009)	3rd June, 2009	5th June, 2009	DST, and INSA, New Delhi	Delivering lecture	Newer knowledge on Research and Development
29.	Hongkong Polytechnic University, Hongkong (2009)	4th June, 2009	4th June, 2009	DST, and INSA, New Delhi	Delivering lecture	Newer knowledge on Research and Development
30.	Centers for Disease Control and Prevention (CDC), Beijing, China (2009)	25th May 2009	28th May2009	DST, and INSA, New Delhi	Delivering lecture	Newer knowledge on Research and Development
31.	Wuhan University, Wuhan, China (2009)	22nd September 2009	24th September 2009	CSIR, Wuhan University, Wuhan, China	Joint Research work	Newer knowledge on Research and Development
32.	Wuhan Institute of Virology, Wuhan, China (2009)	25th September 2009	26th September 2009	CSIR, Wuhan University, Wuhan, China	Collaborative work	Newer knowledge on Research and Development
33.	Institute of Marine Biology National Taiwan Ocean University, Keelung, Taiwan,	6th Oct. 2009	12th Oct. 2009	Institute of Marine Biology National Taiwan Ocean University, Keelung, Taiwan,	Attending Conference	Newer knowledge on Research and Development
34.	Department of Microbiology, National University of Singapore, Singapore	9th Oct., 2009.	14th Oct., 2009	Institute of Marine Biology National Taiwan Ocean	Collaborative work	Newer knowledge on Research and Development

				University, Keelung, Taiwan		
35.	Fujian Academy of Agricultural Sciences, Fuzhou, Fujian, China.	23rd Oct., 2009.	25th Oct., 2009	Fujian Academy of Agricultural Sciences, China	Lab visit	Newer knowledge on Research and Development
36.	Shanghai Academy of Agricultural Sciences, Shanghai, P.R.China	26th Oct., 2009.	28th October, 2009.	Fujian Academy of Agricultural Sciences, China	Delivering lecture	Newer knowledge on Research and Development
37.	Fujian Agricultural and Forest University, Fujian, China.	26th October, 2009	28th October, 2009	Fujian Academy of Agricultural Sciences, China	Delivering lecture	Newer knowledge on Research and Development
38.	Nanyang Technological University, Singapore.	18th October 2009	20th October 2009	Institute of Marine Biology National Taiwan Ocean University, Keelung, Taiwan,	Lab visit	Newer knowledge on Research and Development
39.	BIOPOLIS, Singapore.	22nd October 2009	24th October 2009	Biomedical research and development hub at One-North, Buona Vista. Singapore.	Lab visit	Newer knowledge on Research and Development
40.	Institute of Marine Biology National Taiwan Ocean University, Keelung, Taiwan,	20th May, 2010	1st June, 2010	Visit Department of Entomology, National Taiwan University, Taiwan and Institute of Marine Biology National Taiwan Ocean	Post-doctoral work and Lab visit and delivering lecture to researcher and PG students	Newer knowledge on Research and Development and Teaching.

				University, Keelung, Taiwan,		
41.	Singapore Society for Microbiology and Biotechnology (SSMB)	2nd June, 2010	4th June, 2010	The fourth asean congress of tropical medicine and parasitology 2 -4 June 2010 congress of and Teaching.	To present at The fourth asean congress of tropical medicine and parasitology	Newer knowledge on Research and Development and Teaching.
42.	Department of Entomology, National Taiwan University	30th May, 2010	30th May, 2010	Department of Entomology, NTU, Taiwan.	To Deliver talk	Newer knowledge on Research and Development and Teaching.
43.	Universidad National Autonoma de Mexico (UNAM) Mexico	29th Nov. 2010	30, Nov., 2010	School of Life Sciences, UNAM, Mexico	To deliver talk	Newer knowledge on Research and Development and Teaching.
44.	Texas Tech. University, Texas, USA.	2nd Dec. 2010	2nd Dec. 2010	Dept. of Soil Science	To deliver talk	Newer knowledge on Research and Development and Teaching.
45.	Texas A&M Agri Life Research, USA.	3rd Dec., 2010	12th Dec., 2010	Cotton Entomology Program	To visit the Dept. And learning.	Newer knowledge on Research and Development and Teaching.
46.	University of California, Riverside, USA	11th Decemb er, 2010.		Department of Entomology	To visit the Dept.	Newer knowledge on Research and Development and Teaching.

47.	Kasetsart University, Thailand	21-26 March, 2011		Department of Environmental Entomology	Biocontrol Laboratory and Butterfly Garden	Newer knowledge on Research and Development
48.	James Cook University, Cairns, Australia	4-8, April, 2011		Earth and Environmental Sciences	Visited Daintree Rainforest, Overview of Canopy by Cranes.	Newer forest structure and nature.
49.	WCRP Open Science Conference, Denver, CO, USA	24-October, 2011	28, October, 2011.	Impact of climate change on the sustainable management of mosquito vectors and crop insects	World Meteorological Organization, Switzerland	Newer Sciences on climate change on the management and conservation of insects
50.	USDA-ARS-CMAVE 1600 SW 23rd Drive Gainesville, FL 32608	September, 2011	December , 2011	Mosquito Sciences	University of Florida	Newer Sciences on climate change on the management and conservation
51.	Mississippi University, Oxford, USA	Nov.17, 18 &19, 2011	Nov.17, 18 &19, 2011	Phytochemistry	Natural Product Laboratory, Department of Pharmacy	Newer Molecule for Insect pest management
52.	Florida Mosquito Control Districts, KEYS, Marathon, Florida, 33050, USA	4-5, Nov. 2011	4-5, Nov. 2011	Aerial Mosquito Control	Bacterial Insecticides	Mosquito control
53.	Anastasia Mosquito Control District 500 Old Beach Rd, St Augustine, FL, USA.	Nov. 29, 2011	Nov. 29, 2011	Ground level control mosquitoes	Predatory fish /surveillance	Eco-friendly mosquito and disease control
54.	Butterfly Rainforest Florida Museum of Natural History University of Florida	Nov.30, 2011	Nov.30, 2011	Butterfly exhibition/ butterfly garden	Conservation of nature and butterflies	Public awareness and Education

	Education Cultural Plaza SW 34th Street and Hull Road PO Box 112710 Gainesville, FL 32611- 2710					
55.	Banaras Hindu University, Varanasi-221005, U.P., India.	10th Feb. 2012	11th Feb. 2012.	Mosquito Control Project Presentations	Mosquito Control Innovations	Public Health
56.	Paul Hebert Centre for DNA Bar coding and Biodiversity Studies, Department of Zoology, Dr.Babasaheb Ambedkar Marathwada University, POB No.02, Aurangabad-431004 (India)	21st March2012	22nd March 2012	Global Warming and Insect Control	Integrated Pest Management	Climate Change and Insect control.
57.	National Sun Yat-sen University, Kaohsiung, Taiwan	3rd Oct., 2012	3rd Oct., 2012	Life Science Department	Research Interests on Butterfly Fauna	Mimicry of Butterflies
58.	National Museum of Marine Biology and Aquarium (NMMBA) is located at Checheng National Museum of Marine Biology and Aquarium (NMMBA) is located at Checheng Village of Pingtung County, Taiwan, as the largest marine life museum in Asia	3rd Oct., 2012	3rd Oct., 2012	Nature Museum	"Waters of Taiwan", "Coral Kingdom Pavilion", and "Waters of the World."	"Waters of Taiwan", "Coral Kingdom Pavilion", and "Waters of the World."
59.	Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan	1st October, 2012	1st October, 2012	Visited various Departments of NTOU, Taiwan	Learned Marine Education	Learned Marine Education

60.	Murdoch University, Perth, Western Australia	25th November, 2012	29th November, 2012	Visited Department of Environmental Engineering	Water Purification Facilities.	Water Reuse Technology
61.	Curtin University, Perth, Australia.	30th Nov. 2012	30th Nov. 2012	Visited Life Science Agriculture and Marketing School	Australian Faunal Museum	Biological Marketing facilities at the School
62.	Institute of Marine Biology National Taiwan Ocean University, Keelung, Taiwan,	15th March 2013	18th March 2013	Visited various Departments and Plant Science Department	Seaweed Museum	Seaweed documentations
63.	Institute of Zoology, Chinese Academy Sciences, Beijing, China	25th June, 2013	26th June, 2013	Visited Museums, and various Key Laboratories of Insect control	Zoology Museum	Animal Documentations
64.	Department of Environmental Sciences, Beijing Normal University, China.	27th June, 2013	27th June, 2013	Delivered Lecture on Insect Conservation and Management	Discussion with Students and Staffs	Knowledge Exchange
65.	Department of Microbiology and Nano science, China Agricultural University, China.	28th June, 2013	28th June, 2013.	Visits Nano materials Production Technology	Newer Knowledge on Nano insecticides	Newer Knowledge on drug delivery system
66.	Wayne State University, Detroit, MI, USA.	14th July, 2013	19th July, 2013	Department of Physiology, Detroit, MI, USA.	College of Medical Sciences, Detroit, MI, USA.	Newer Knowledge on physiological investigations
67.	National Taiwan Normal University, Taipei, Taiwan.	Oct. 18, Taipei City	Oct-19 in Taipei City	Taipei Zoo, Taipei, Taiwan	Visited butterfly garden	Exchange of knowledge between the institution.

68.	Institute of Zoology, Chinese Academy Sciences, Beijing, China	25th June, 2013	26th June, 2013	Visited Museums, and various Key Laboratories of Insect control	Zoology Museum	Animal Documentations
69.	Department of Environmental Sciences, Beijing Normal University, China.	27th June, 2013	27th June, 2013	Delivered Lecture on Insect Conservation and Management	Discussion with Students and Staffs	Knowledge Exchange
70.	Department of Microbiology and Nano science, China Agricultural University, China.	28th June, 2013	28th June, 2013.	Visits Nano materials Production Technology	Newer Knowledge on Nano insecticides	Newer Knowledge on drug delivery system
71.	Wayne State University, Detroit, MI, USA.	14th July, 2013	19th July, 2013	Department of Physiology, Detroit, MI, USA.	College of Medical Sciences, Detroit, MI, USA.	Newer Knowledge on physiological investigations
72.	National Taiwan Normal University, Taipei, Taiwan.	Oct. 18, Taipei City	Oct-19 in Taipei City	Taipei Zoo, Taipei, Taiwan	Visited butterfly garden	Exchange of knowledge between the institutions.
73.	Institute of Zoology, Chinese Academy Sciences, Beijing, China	25th June, 2013	26th June, 2013	Visited Museums, and various Key Laboratories of Insect control	Zoology Museum	Animal Documentations
74.	Invitation – Scientific Visit King Saud University.	19th Oct 2015	26th Oct 2015	To Deliver a Lecture on 1. Bio-mediated nano particles for the insect with environmental safety. 2. Nano materials as effective	Invited by Vice Dean - Prof. Mohamad Saleh AlSalhi, Laser and Nano Physics, Physics and Astronomy Dept. College of Science,	Laser and Nano Physics, Physics and Astronomy Dept. College of Science, P.O. Box. 2455, Riyadh 11451, King Saud University.

				anticancerous agents in drug delivery system.	Riyadh 11451, King Saud University.	

Ph.D. Public Viva-voce conducted

S. No.	Position	Name of the Candidate	Title of Thesis	Place held	Date of Viva Exam
1.	External Examiner	K. Sudha	Studies on oogenesis and the role of storage tissues in decapod crustaceans	Sree Narayana College, Kannur, Kerala	02-02-1992
2.	External Examiner	N.Gnanasekaran	Studies on incidents of insect of Uzifly and mulberry silkworm the economic of sericulture of ecological factor	SIVET College, Gowriwakkam, Chennai - 75.	15.07.2002
3.	External Examiner	K. Prakash	Studies on microbial complex on aquaculture farms.	Poondi Pushpam College, Thanjavoor	08-10-2007
4. .	External Examiner	C. Subhashini	Effect of Antibacterial *Mimosa pudica* of plants	University of Madras, Sreenivasa morum Dr.Ayurveda Department of Ministry of Health & Family, Anna nagar Chennai 600 106	05-11-2007
5.	External Examiner	S. Dijju	Dynamic analysis of Steroid hormone in the region of integralted corps *Catla catla* of *Labeo rohith*	Dept of Zoology, Madras Christian College,Tambaram, Chennai, India.	08.12.2007

6.	External Examiner	P. Severkodion	Diversity, density and distribution pattern and behavioural expressions of mosquito in rural area.	ANJAC College, Sivakasi, Madurai, India.	28.11.2008
7.	External Examiner	J. S.Arockiamari	Nano-biological approaches on promoting the silk production of silkworm, *Bombyx mori.*	Thiruvalluvar University, Vellore	09-03-2009
8.	External Examiner	S. Sivasuriyan	Impact of Cynobacterium on metabolic events in albino rats	Poondi Pushpam College, Thanjavoor	08-07-2009
9.	External Examiner	D. Jayaprakash	Anticancerous effect of *Tinospora cordifolia*, in human hepatoma cell line (HGB-D2) and in expl, liver cancer	University of Madras, Sreenivasa morum Dr.Ayurveda Department of Ministry of Health & Family, Anna nagar Chennai 600 106.	10-08-2009
10.	External Examiner	V. Jayashree	Effect of pesticides of physiological and Biochemical analysis of patterns for fresh water fish on Oreochromis mossambicus	Ethiraj College, Chennai	13-09-2009
11.	External Examiner	T.Pushpanathan	Mosquitocidal, Repellent and Oviposition deterrent activity of selected plant essential oil against mosquitoes	Annamalai University, Chidambaram-608 002, Tamil Nadu, India.	08-02-2010

12.	External Examiner	A.Anthoni samy	Studies on Isolation, Characterization and Co-existene of Plant Growth Promoting Rhizobacteria (PGPR) and entomopathogenic Nematodes (EPNs) for Sustainable Crop Improvement	Bharathidasan University, Tiruchirappall-620 024,Tamil Nadu, India.	18-07-2011
13.	External Examiner	R. Karthik Raja	Studies on Isolation, Identification and Ecological Characterization of Entomopathogenic Nematodes (Steinernematidae and Heterorhabditidae) from Cultivated Lands of Salem District, Tamil Nadu, India	Bharathidasan University, Tiruchirappall-620 024,Tamil Nadu, India.	19-07-2011
14.	External Examiner	P. Chellapandi	Molecular Evolutionary Mechanism of Metanogens based on their protein superfamilies – an *in silico* Approach	Bharathidasan University, Tiruchirappall-620 024,Tamil Nadu, India.	02-8-2011
15.	External Examiner	Chitra S.	Characterization of Tree Hole Mosquito Species and Evaluation of Entomopathogenic Fungi (*Metarhizium anisopliae* and *Beauveria bassiana*)	Bharathidasan University, Tiruchirappall-620 024,Tamil Nadu, India.	18-6-2012

16.	External Examiner	Ms. M. Isai	Anticataractogenic potential of an extract of oyster mushroom, *Pleurotus ostreatus*, and its active compound, Rutin in wistar rats	Bharathidasan University, Tiruchirappall-620 024,Tamil Nadu, India.	*18th July, 2012*
17.	External Examiner	Mumtaz. T	Heavy metals load and bioaccumulation in the vaigai	Department of Zoology, Sir Thiyagarajar College, Madurai.	*17-9-2012*
18.	External Examiner	A.J. Jagadeesan	Effect of Fenugreek on the liver enzymatic profiles in adult albino rat	Dept. Of Enviornmental Toxicology,	
19.	External Examiner	Regitha V.	Iron regulations in gills of fish	Department of Zoology, Kerala University, Trivandrum	*2.9.2012*
20.	External Examiner	N.S.Hemakumar	Anticancer effect of Ruelllia Tuberosa Linn. In human gastric adenocarcinoma (AGS) Cell line and N-Methyl-N-Nitosoguanidine induced experimental gastric."	Captain Srinivas Murty Research Inst. Arumbakkam, Chennai -106	*04.03.13*
21.	External Examiner	Santosh Kumar Upadhyay	Isolation development and characterization of Novel Insecticidal Macromolecules	Gautam Buddh Techincal University, Institute of Engineering & Technology Campus Sitapur,	*11.02.2013*

22.	External Examiner	NS Hemakumar	Studies on the use of plant chemicals on the cell line of rat	Captain Srinivasa Murthy Drug Research Institute, Govermennt of India	04-03-2013
23.	External Examiner	Mr. G. Ponraj	Molecular Characterization of Lepidopteran Insects	Madurai Kamaraj University, Madurai	3.12.2013
24.	External Examiner	Mr. S. Ananth	Surveillance and Biocontrol of Culex Sp. In waste water by *Nerium oleander* L. and *Bacillus thuringiensis var. israelensis*	Bharathidasan University, Tiruchirappalli	08.01.2014
25.	External Examiner	Mr. Majesh Tomson	Boiefficacy of Rhynocoris fuscipes and Beuveria bassiana toxin protein and its silver nanoparticles against crop pests	St. Xavier's College, Palayamkottai	07.02.2014
26.	External Examiner	G. J. Jenila	Hydrobiological characterization of selected aquatic habit in Kanyakumari, Districts, Tamil Nadu.	S.T. Hindu College, Nagerkoil, India.	21-04-2014
27.	External Examiner	K.N.Shailesh Kumar	Phytochemical composition and anticancer potential of leaf extract of Aegle marmetos (L) corr .serr.	Department of Zoology, Annamalai University, Chidambaram, India	6-8-2014
28.	External Examiner	K. Tamilarul Selvi	Studies on the effect of pesticides on *Artemia spp*	Hindu College, Nagarkovil	07.08.2015

29.	External Examiner	C. Gobinath,	Isolation and characterization of Entomopathogenic bacteria for metal nanoparticles (silver and gold) synthesis and its therapeutic applications	Bharathiadasan University	25.02.2016
30.	External Examiner	K.Yogalakshmi	Antidiabetic, Anti-Hyperlipidemia, Antioxidant, Histopathalogical, GC-MS, Molecular Docking and bone biochemical studies on the activity of methanolic leaf extract of *Pimentadioca* (family: myrtacea) in streptozotocin Induced diabetic rats	Annamalai University	08.06.2016
31.	External Examiner	C.MAKESH KUMAR	Studies on the bio diversity and Distribution of Tree Hole Mosquitoes in Kolli Hills, EasternGhats, Tamilnadu, India	Annamalai University	08.06.2016
32.	External Examiner	P. Mamatha	Evaluation of existing situation and prediction of water quality of few Bangalore lakes in integration with ubanization and industrialization of Bangalore	Bangalore University	17.06.2016
33.	External Examiner	Veerakumar K.	Green synthesis of silver nanoparticles using selected medicinal plants against mosquitoes	Annamalai University, Chidambaram	28.12.2016

SPECIAL COURSE CONDUCTED

1. Conducted Refresher Course in Entomology during February 18 to March 10, 1992 (21 days) at Department of Zoology, Bharathiar University, Coimbatore for College and University teachers.
2. Conducted (Organising Secretary) 2 days National Symposium on "Biological Control of Insects in Agriculture, Forestry, Medicine and Veterinary Science" during January 21-22, 1999. 365 scientific papers have been presented and 300 Scientists were participated in the Symposium.
3. Conducted one day seminar on "Genetics, Health and Disease", on 16th March 2000 at Bharathiar University, Coimbatore-641 046, India.
4. National Seminar of ISSGPU on Scope and Strategies for Increasing Mean Production from Small ruminants and Rabbits in the New Millennium during 9-11 November 2001 at the Department of Zoology, Bharathiar University, Coimbatore 641 046, India.
5. Attended the Need Based Refresher Course in Environmental education for University and college Teachers Conducted by Academic Staff College, Bharathiar University, Coimbatore from 10.05.2002 to 30.05.2002

ORGANISING INTERNATIONAL CONFERENCES:

Date and Year	Programme	Title of the event	Sponsors	Position held
30th January to 3rd February, 2006	International Conference	International Conference on Biodiversity of insects: Challenging Issue in management and conservation	DST, DBT, CSIR,ICMR, BARC, Govt. of India.	Organising Secretary
9th-12th February 2009	International Conference	International Congress of Global Warming on Biodiversity of Insects: Management and Conservation	DST, DBT, CSIR, ICMR, Govt. of India.	Organising Secretary
24th- 26th August, 2011	International Conference	2nd International Congress of Global Warming on Biodiversity of Insects: Management and Conservation	DST, DBT, CSIR, ICMR Govt. of India.	Organising Secretary
2nd - 4th November, 2013	International Conference	3nd International Congress of Global Warming on Biodiversity of Insects: Management and Conservation	DST, DBT, CSIR, ICMR, Govt. of India.	Organising Secretary
31st May to 5th June, 2015	International Workshop	Interactive workshop on "Recent Trends in Marine Biology" Workshop	Bharathiar University and National Taiwan Ocean University with Professor Jiang Shiou Hwang	Organising Secretary
To be organised on August 21 – 25, 2016 at			Incollaboration with International Society for	Organising Secretary.

Bharathiar University, Coimbatore-641 046, India.			Invertebrate Reproduction And Development, Wayne State University, USA.	

ORGANISING NATIONAL CONFERENCES:

Date and Year	Programme	Title of the event	Sponsors	Position held
21-22, January, 1999	National Symposium	"Biological Control of Insects in Agriculture, Forestry, Medicine and Veterinary Science"	CSIR, ICMR, BARC, Govt. of India.	Organising Secretary
22-24 January, 2003	National conference	Recent Trends Insect Control	DST, Tamil Nadu State Council for Science & Technology	Organising Secretary
29th October, 2007	Training Programme	One day training programme for public and farmers "Mosquito Control"	Bharathiar University	Organising Secretary
18- 20, August, 2010	National Conference	Freshwater fist culture using bio encapsulated live feeds towards to technological empowerment of fisherman and self help groups	DBT, Govt. of India.	Organising Secretary
25-29 October, 2010	National Conference	3rd Asian Lepidoptera conservation symposium	DST Govt. of India.	Executive Member
15th and 16th March, 2010	National Conference	Impact of Climate Change on the Biodiversity of Insects and Environment	ICMR, CSIR, INSA Govt. of India.	Organising Secretary

EDITORIAL ADVISOR FOR THE JOURNAL:

- Entomon. Kerala University, Trivandrum, India.
- Neem Newsletter, IARI, New Delhi.
- Indian Journal of Experimental Biology, Council of Scientific and Industrial
- Research, Government of India, New Delhi, India.
- Zoo's Print, Zoo Outreach Organisation, Coimbatore, India.
- Insect Science, Blackwell, China.
- Entomological Science, Blackwell, Japan.
- Current Science, Bangalore, India.
- Journal of Ecology and Natural Environment (JENE), Africa.
- Indian joural of Medical Research, Indian Council of Medical Research, ICMR, New Delhi
- International Journal of Pest Management Science, Wiley Interscience.
- Journal of Applied Entomology, Wiley Interscience, Germany
- Ecological Indicators, Elsevier.
- Acta Tropica, Elsevier.
- Arabian Journal of Chemistry, Elsevier.

BOOKS / PROCEEDING EDITED

- Edited a Proceedings entitled 'Biological Control of Insects' (2000) - Paper presented at the National Symposium on Biological Control of Insects in Agriculture, Forestry, Medicine and Veterinary Science during January 21-22, 1999. Published by Bharathiar University, Coimbatore-641 046, India, pp 131.
- Editing Proceedings entitled "Recent Trends in Insect Control" (2003). Paper presented at the National Conference on "Recent Trends in Insect Control" held at Bharathiar University, Coimbatore during January 22 – 24, 2003. Published by Bharathiar University, Coimbatore-641 046, and India.

SPECIAL LECTURE DELIVERED:

1. X All India Symposium on Reproductive Biology and Comparative Endocrinology conducted by Avinashilingam Deemed University, Coimbatore - 641 043 on January 12-13, 1992.Chaired a session VI Insect Reproduction 13.01.1992 at 2.00 to 3.00 PM.
2. National Symposium on Reproductive Biology and Comparative Endocrinology conducted by Department of Zoology, Sri Venkateswara University, Tirupati, India on January 29-30, 1993. Chaired a session III Environment an Invertebrate Reproduction on 30.01.1993 at 12.00 Noon to 1.00 PM.
3. The III Indo-Pacific and VI All India Symposium on invertebrate reproduction conducted by Post Graduate Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi on December 10-12, 1993. Chaired a ession II Sericulture on 10.12.1993 at 2.00 to 3.00 PM.
4. XII National Symposium on Reproductive Biology and Comparative Endocrinology conducted by School of Life Sciences, Pondichery University, Pondichery - 605 014 on January 21-23,1994. Chaired a session V Environment and invertebrate reproduction on 21.01.1994 at 3.00 to 5.00 PM.
5. Second National Symposium on prospects and problems of Sericulture in India conducted by Department of Zoology, Madras University, Post Graduate Extension Centre, Vellore, India on March 7-9, 1994. Chaired a session IV Silkworm Pathology at 08.09.1994 at 11.00 AM to 12.00 Noon.

6. XII National Symposium on Reproductive Biology and Comparative Endocrinology conducted by Osmania University, Hyderabad - 500 007 on January 27-28, 1995. Chaired a session II Medical Entomology on 28.01.1995 at 10.00 AM to 12.00 Noon.
7. VII All India Symposium on invertebrate reproduction by Sree Narayana College, Cannanore, Kerala on April 5-7, 1995. Chaired a session III Insect Pathology on 06.04.1995 at 12.00 Noon to 1.00 PM.
8. Delivered a special lecture on Host Plant influence on feeding strategy and development of some lepidopterous insects at National Institute of Sericultural and Entomological Science, Tsukuba, 305, Japan on July 10, 1996.
9. Delivered a special lecture on "Neem on Insect Physiology" at Centre for Plant Protection, Tamil Nadu Agricultural University, Coimbatore on May 21, 1997.
10. Delivered a speech in All India Radio, Coimbatore on March 31, 1998 on the "Role of Neem in Agriculture and Medicine.
11. Delivered a special lecture on "Botanical insecticide" for sustainable management of insect pests" at UGC State Level Seminar on the "Use of Plant Extracts as Bio-pesticides in Insect Control" at Khadir Mohideen College, Adiramapattinam -614701, Thanjavur District., Tamil Nadu, India on 30.03.1999.
12. Delivered a special lecture on "Effect of botanicals on the physiology of insects" at training programme on "Botanicals in Pest Management," Organized by Centre for Plant Protection Studies" Tamil Nadu Agricultural University, and Coimbatore, India on 06-12-1999.

13. Delivered a special lecture on 'Influence host insect diets and its parasitoid' at the Department of Zoology, University of Oxford, UK on 19th February 2001.
14. Delivered invited lectures on 'Host plant biochemical influence on the growth and development of insects' and Natural plant products as a bio-pesticides' at the UGC – Refresher Course on Biochemistry for the University and College Teachers at the Avinashilingam Deemed University for Woman, Coimbatore, India on 19-11-2001
15. Delivered a talk on Mosquito Borne Diseases and Preventive Measures "Kosukkal Parappum Noikalum Avatrai Kattuppaduthum Muraigalum" at All India Radio, Coimbatore, Tamil Nadu, India on 10th December 2001.
16. The Role of Neem In Agriculture And Medicine (Vleaanmaithurai Matrum Maruthuva Thuraiyil Tembin Pangu'), At All India Radio, Coimbatore At 11.00 Am On 17-9-2002.
17. **DELIVERED A SPECIAL LECTURE ON "BIOPESTICIDES" AT THE NATIONAL SEMINAR ON BIOTECHNOLOGY IN THE NEW MILLENNIUM" ON 15TH AND 16TH FEB. 2002 AT VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN, TIRUCHENGODU, TAMIL NADU, INDIA.**
18. Delivered Special lecture on Integration of Botanical and Microbial pesticide for the Control of Insect pest at the UGC sponsored National Symposium on "Bio Resources and their Management at Kongu Nadu Arts and Science College, Coimbatore, India during 5th and 6th of September 2003.
19. Delivered special lecture on "Biological control of Mosquitoes" at the UGC-Academic Staff College, Bharathiar University on 14-06-2004 for the

Refresher Course on "Environmental Education" for University and College Teachers from 26-05-2004 to 15-06-2004.

20. Delivered Invited lecture on "Integration of Botanicals and Microbial Pesticides for the control of Insects" at the State Level Seminar on New Thrust in Biosciences 18th August, 2006 at Vivekanandha College of Arts and Sciences for Women at Tiruchengode-637205, Tamil Nadu, India.
21. Delivered Inaugural address on the "Insect pathology and Biocontrol" at National Conference on "Molecular Pathogenesis" from 15th and 16th September, 2006 at Karpagam Arts and Science College, Coimbatore, India.
22. Delivered A Biopesticide Development And Prospecting At The School Of Life Sciences, SNMV (Shri Nehru Maha Vidyalaya) College Of Arts & Sciences, Coimbatore On 20th June, 2009.
23. Delivered Special Lecture and Acted As Chairperson at the Third "National Symposium on Frontiers in Biotechnology (NSFB 2009)". In The School Of Biotechnology and Genetic Engineering of the Bharathiar University, Coimbatore-641 046, India. 22 – 24th of July, 2009.
24. Delivered Invited Lecture Delivered Plenary Lecture at the 3RD Conference of Medical Arthoropodology at the Centre for Research in Medical Entomology, (ICMR) Govt. of India, Madurai from December, 18-19, 2009. 2009.
25. Delivered invited lecture at the Department of Zoology, Thiruvalluvar University, Vellore-632 004, India. Title of the paper: Integration of botanicals and microbial pesticides for the control of mosquito vectors". From January 6-8, 2010.

26. Delivered Plenary Lecture delivered at the International Conference on Climate Change and Bio resource (ICCCB-2010), 9 to 12 February, 2010. Title of the paper: Effect of climate change on mosquito surveillance at different agro climatic regions of Tamil Nadu, India and Bio efficacy of Bio pesticides for the control of mosquito vectors.
27. Delivered Lecture at the UGC-ASC – Orientation Course participants (TEACHERS) on the Menace of Mosquito on 11-02-2010 at Academic Staff College, Bharathiar University, Coimbatore-641 046.
28. Delivered Lecture at the UGC-ASC – Refresher Course on "Zoology" participants (TEACHERS) on the Menace of Mosquito on 03-03-2010 at Academic Staff College, Bharathiar University, Coimbatore-641 046, Course duration 03-03-2010-23-03-2010
29. Delivered invited lecture on "Bio pesticides for the Sustainable agriculture" at the Agri-Bioteech workshop at Vivekananda College of Arts and Sciences for Women, Elayampalayam, Tiruchengode, Namakkal-637 205 on 5th and 6th March, 2010.
30. Delivered invited lecture at the National Seminar on "Integrated Management of Arthropod Pests Of Livestock and Poultry in the aftermath of Global Warming and Climate Change" at Veterinary College and Research Institute, Nammakal on 21st and 22nd April, 2010 on "Integrative use of botanicals and microbial insecticides for the control of medical and veterinary insects.
31. Delivered Lecture entitled " Natural Plant Chemical Interactions of Crop Insects and Mosquito Vectors" at the Natural Product Laboratory, School of Pharmacy, Mississippi University, Oxford, Mississippi, USA on 18th November, 2011.

32. Delivered Lecture Resource person, Themes: National & International Funding Agencies, Identification of Research Area and Host Professor, Details of National and International Conferences, Seminars and Workshop at Orientation Programme on "International Travel for Faculty Members" during 11.01.2011.
33. Delivered lecture Resource Person in Sree Saraswathi Thyagaraja College, Pollachi with DST - "Inspire Internship Programme – February 2012" sponsored by Department of Science and Technologies, Government of India, on 25.02.2012.
34. Delivered lecture entitled "Mosquito nuisance and control" Orientation course for college teachers, at Bharathiar University, Coimbatore, India - on 14.05.2012.
35. Selection committee consisted by the University of Kerala for the selection of PURSE-SRF in the DST-Purse Programme on 13.02.2012.
36. Selected Mentors/Resource Persons for Summer/Winter Camps and other Inspire Initiatives, Department of Science and Technology (DST) Technology Bhavan, New Mehrauli Road, New Delhi-110 016.
37. Project Evaluation Committee Members - Department of Scientific & Industrial Research, Ministry of Science Technology, Government of India, Technology Bhavan, New Mehrauli Road, New Delhi – 110 016
38. Attend and Resource person for the "Refresher course on update on IPR" at Institute of Seismological Research, Ahmedabad, Gujarat, (Gujcost), during 23rd to 25th May 2012.
39. Delivered Lecture at Institute of Marine Biology, National Taiwan Ocean National University on 8 October 2012 on the Field Experimentation for Mosquito Control.

40. Delivered Lecture at Institute of Marine Biology, National Taiwan Ocean National University on 16 October 2012 on the Biological Control Mosquito Vectors.
41. Delivered Lecture on at UGC Refresher Course for College Teachers at Bharathiar University on 19 October, 2012 on "Butterfly Diversity and Conservation in Western Ghats, Southern India.
42. Delivered Lecture on at UGC Refresher Course for College Teachers at Bharathiar University on 19 October, 2012 on "Dengue Vector Control.
43. Delivered Invited Lecture at Center for Biodiversity and Forest Studies, Periyar University, Salem-636011, India. Title of the Paper: Current Trends in Biodiversity Conservation and Forest Management (CTBCFM-2014)". From January 6-7, 2014.

RESEARCH PROJECTS:

S.No.	Name of project	Funding Agency	Amount of Fund received	Date of commencement of the project	Date of completion
1	Effect of neem (*Azadirachta indica* A. Juss) on the feeding, growth and reproductive strategy of Lepidopterous pests.	University Grants Commission (UGC), New Delhi.	Rs. 10,000/- Minor Project One Year	Jan. 1995	Dec. 1995
2	Synergistic interaction of botanicals and microbial pesticides in relation to pest control	University Grants Commission (UGC), New Delhi.	Rs. 10,000/- Minor Project One Year	March 1998	February, 1999
3	Pest and diseases on forest plantation at Coimbatore Zoological Park, Anaikatty, Western Ghats, Southern India, Coimbatore.	Zoological Park and Conservation Centre, Coimbatore,	Rs.25,000/- Minor Project One Year	September 1997	August 1998

		Tamil Nadu, India			
4	Interactive effect of botanicals and Bt toxins for the control of mosquito vectors of medical and veterinary importance.	Defence Research and Development Organization (DRDO), Govt. of India.	Rs.11,10,600/- 2 years	February 2000	January 2002
5	Identification of Larvicidal and Anti-malarial plants endemic to Western Ghats, Southern India.	Defence Research Institute, Tezpur, Assam, India.	Rs.4,95,500/- Minor project	April 2004	March 2006
6.	Bioactivities of botanicals on fungal pathogen for the control of malarial, filarial and dengue vectors (Mosquitoes) in the endemic areas of Tamil Nadu, India (Sanction No. F.30-198/2004 (SR) dated on 10.11.2004).	University Grants Commission, New Delhi, India.	Rs. 8,18,000,00/- Major Project	01.01.2005	31-12-2008

ON GOING PROJECTS:

S.No.	Name of project	Funding Agency	Amount of Fund received	Date of commencement of the project	Date of completion
1.	Environmental Management Sub project on "Use of GIS-RS for the prediction of mosquito vectors and mosquito Borne diseases.	Bharathiar University-Defence Research and Development Organisation, Centre for Life Science	Rs.1,00,000/- 5 years Major Research Project	January 2005	January 2010
2	Evaluation of Bacterial Larvicides, *Bacillus sphaericus* (DRL, Tezpur, Isolates) for the control of Mosquito vectors	Defence Research Laboratory, Defence R&D Organization, Ministry of	Rs.4,27,000/- 2 years Minor Project	November, 2008	November, 2010

		Defence, Govt. of India			
3.	Integration of Botanicals and Novel Microbial (Spinosad) Insecticides for the Control Mosquito Vectors and for the Development of Eco-Friendly Biopesticides	University Grants Commission (UGC), New Delhi.	Rs.7,09,300/- 3 years Major Research Project	July, 2009	July, 2012
4.	Integration of Novel Bacterial Insecticide (Spinosad) and Botanicals for the Control of Mosquito Vectors at the Endemic area of Tamil Nadu, India	Council of Scientific and Industrial Research, New Delhi.	Rs.10,56,000/- 3 years Major Research Project	November, 2009	November, 2012
5.	Integration of Botanical Pesticides and Entomopathogenic Fungi (*Metarizhium anisopliae*) for the Control Mosquito Vector at different Agro-climatic Regions of Tamil Nadu, India.	DST-Tamil Nadu State Council for Science and Technology, Chennai.	Rs.15,17,000/- 3 years Major Research Project	October, 2009	October, 2012
6.	Integration of Nanoparticles with Botnicals and Microbial Insecticides for the control of Malarial vector, Anopheles stephensi and malarial parasites	DRDO-Life Sciences Research Board, New Delhi	Rs. 19,44,000/- 3 years Major Research Project	November, 2010	November, 2013.
7.	Development of Novel Neem, formulations for the control of Apple Coding Moth, Pomonella	DRDO-Defence Institute of High Altitude Research (DIHAR)	Rs.9,97,000/- 3 years Major Research Project	March 2011	March, 2011
8.	"Vector-borne disease control by community participation and natural products in rural environments: one tool, three cultures, under the South-South Cooperation between India, Argentina and Uganda.	United Nations, New York, USA, Mosquito Control Project (UNDP) to Bharathiar University	US$ 24,000/-	January, 2012	Feburary, 2014.

PAPERS IN SYMPOSIA AND SEMINAR:

The following papers were presented at X All India Symposium on Reproductive Biology and Comparative Endocrinology held at Avinashilingam Institute of Home Science and Higher Education for Women, Coimbatore, India on 12 to 13th January 1992. Acted as chairperson in one of the scientific session.

1. Murugan K Chitra T and Senthamil Selvi S. Lipid and Energy utilization of *Gesonula punctifrons* during embryonic development (Orthoptera: Acrididae).
2. Murugan K Senthamil Selvi S and Chitra T. Protein and nucleic acid changes during embryogenesis of *Atractomorpha crenulata* Fab.
3. Murugan K Chitra P S Senthamil Selvi S and Chitra T. Feeding and Nutritional influence on the growth and reproduction of *Daphnis nerii* (Linn) (Lepidoptera: Sphingidae). The following papers were presented at XI National Symposium on Reproductive Biology and Comparative Endocrinology held on January 29-30, 1993. Sri Venkateswara University, Tirupati, India
4. Murugan K and Vani C. Changes in protein, fructose, lipid concentration and activities of acid and alkaline phosphatises during gonadotrophic period of *Poecilocerus pictus* (Fabr.) 1993.
5. Babu R and Murugan K. Influence of leaf age and reproductive strategy of *Bombyx mori* L. 1993.
6. Jahanmohini P and Murugan K. Nutritional modulation of reproduction in *Corcyra cephalonica* (Lepidoptera: Pyralidae) and its predator Chrysopa scelestes Neuroptera: Chrysopidae). 1993.

7. Suzy Alexander, Senthamil Selvi and Murugan K. Host plant influence on the feeding and reproduction of *Danaus chrysippus* Linn. (Lepidoptera: Nymphalidae). 1993.
8. Murugan K Jahanamohini P and Babu R. Effect of neem kernel extract and neem oil on nutritive and reproductive physiology of *Heliothis armigera* Hub. Presented at World Neem Conference, held on February 24-28, Bangalore, India. 1993.

6th International Congress on Invertebrate Reproduction 28 June 1992 to Department of Zoology, Trinity College, University of Dublin, Ireland.

Murugan K. (1992). "Host plant influence on feeding and reproduction of water hyacinth grasshopper, *Gesonula punctifrons'*

The following papers were presented at III Indo-Pacific and VI All India Symposium on Invertebrate Reproduction held on December 10-12, 1993 at Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi, India.

9. Jahanmohini P and Murugan K. Influence of Host Plant on growth and reproduction of *Aphis nerii* (Homoptera: Aphididae) and Feeding and Prey utilization of its predator *Menochilus sexmaculatus* (Coleopteran: Coccinellidae). 1993.
10. Babu R and Murugan K. Effect of Azadirachtin on feeding and reproductive strategy of Male *Poecilocerus pictus* Fab. (Orthoptera: Acrididae), 1993.

11. Vani C and Murugan K. Impact of Gossypol on feeding and reproduction of *Helicoverpa armigera* (Lepidoptera: Noctuidae), 1993.
12. Chitra P S and Murugan K. Host plant influence on feeding and reproduction of *Poecilocerus pictus* Fab. (Orthoptera: Acrididae), 1993.
13. Thangam M and Murugan K. Host plant influence on feeding and reproduction of *Helicoverpa armigera* Hubner (Lepidoptera: Noctuidae) and *Cyrtacanthacris ranacea* Stoll (Orthoptera: Cyrtacanthacridae). 1993.
14. Senthil Kumar N Senthil Vadivu R and Murugan K. Flower parts interaction in relation to feeding and reproduction of *Mylabris pustulata* (Coleoptera: Meloidae). 1993.
15. Jeyabalan D and Murugan K. Host plant phenology and feeding biology, food consumption and reproduction of mango caterpillar, *Latioa lepida* Crammer. 1993.
16. Senthil Vadivu R and Murugan K. Dietary nutritional influence on reproduction of Callosobruchus maculatus (Coleoptera: Bruchidae) on different pulses. 1993.

The following papers were presented at XII All India Symposium on Reproductive Biology and Comparative Endocrinology, was held at School of Life Sciences, Pondicherry from Jan. 21-23, 1994.

17. Senthil Kumar N and Murugan K. Host plant brain lipid profiles of *Poecilocerus pictus* Fab. (Orthoptera: Acrididae). 1994.

The following papers were presented at II National Symposium on problems and prospects of sericulture in India was held on 09-12th March 1994 at PG Extension Centre, Madras University, Vellore, India.

18. Babu R and Murugan K. The relationship between the weight and the amino acid constitution of the silk of some Strains of the silkworm *Bombyx mori* L. 1994.
19. Babu R and Murugan K. Pattern of protein as influenced by larval diet in *Bombyx mori* L. 1994.
20. Sivaprakasam N Thangam M Murugan K and Senthil Kumar N. Biochemical changes of silkworm *Bombyx mori* L. (Lepidoptera: Bombycidae) infected by bacterial disease (Flacherie). 1994.
21. Murugan K Jeyabalan D Sivaprakasam N and Senthil Vadivu R. Influence of certain botanicals on the biochemical changes in mulberry silkworm *Bombyx mori* L. (Lepidoptera: Bombycidae). 1994.
22. Murugan K and Babu R. Age correlated host plant influence on feeding, development and reproduction of *Bombyx mori* L. (Lepidoptera: Bombycidae). 1994.
23. Murugan K Shiju Jacob Thangam M Jeyabalan D Babu R and Sivaprakasam N. Enzymatic profiles of mulberry silkworm *Bombyx mori* L. (Lepidoptera: Bombycidae) infected by bacterial disease (Flacherie). 1994.

National Symposium on Emerging Trends in Applied Biology held on October 21-22, 1994 at Indian Institute of Chemical Technology, Hyderabad, India. Sponsored by Council of Scientific and Industrial Research.

24. Murugan K and Babu R. Effect of Gossypol on the growth and reproductive potential of *Helicoverpa armigera* (Hub.). Proc. of Emerging trends in applied biology, Hyderabad, India.1995.

25. Jeyabalan D Senthil Vadivu R Senthil Kumar N Babu R and Murugan K. Effects of certain plant products in relation to control strategy of *Callosobruchus maculatus* (Fab.) (Coleoptera: Bruchidae). Proc. of "Emerging trends in Applied Biology", Hyderabad, India. 1995.

The following papers were presented in III National Symposium on Reproductive Biology and Comparative Endocrinology held on January 27-28, 1995 at Osmania University, Hyderabad, India (Acted as chairperson in one of the scientific session).

26. Babu R and Murugan K. Effect of Azadirachtin on Ovarian Development of *Atractomorpha* crenulata F. (Insecta: Orthoptera: Acrididae). 1995.
27. Jeyabalan D and Murugan K. Effect of neem limonoids on the reproduction of Helicoverpa armigera (Hub.) (Insecta: Lepidoptera: Noctuidae). 1995.
28. Thangam M and Murugan K. Influence of host plants on longevity and fecundity of *Helicoverpa armigera* (Hub.) (Insecta: Lepidoptera: Noctuidae). 1995.
29. Shiju Jacob and Murugan K. Effect of caffeine on the acetylcholinestrase activity of *Helicoverpa armigera* (Hub)(Insecta: Lepidoptera: Noctuidae). 1995.
30. Senthil Nathan S and Murugan K. Age specific feeding preference and reproductive potential of *Zygogramma bicolorata* (Insecta: Coleoptera: Zygogramatidae). 1995.
31. Senthil Vadivu R and Murugan K. Host plant influence on reproductive strategy of *Papilio demoleus* (Insecta: Lepidoptera: Papilionidae). 1995.

32. Kavitha R and Murugan K. Effect of Vitex negundo on lipid changes in female *Atractomorpha crenulata* Fab. (Insecta: Orthoptera: Acrididae). 1995.
33. Sivaramakrishnan S and Murugan K. Effect of *Pongamia pinnata* on the protein changes of female *Atractomorpha crenulata* Fab. (Insecta: Orthoptera: Acrididae), 1995.
34. Senthil Kumar N and Murugan K. Impact of the exudate of resin glands of *Azadirachta indica* repelin and nimbecidine on the reproduction of *Helicoverpa armigera* (Hub.) (Insecta: Lepidoptera: Noctuidae), 1995.

The following papers presented in the VII All India Symposium on Invertebrate Reproduction to be held on 5-7th April 1995 at Sree Narayana College, Cannanore, Kerala (Acted as a chairperson in one of the scientific sessions).

34. Senthil Vadivu R Jeyabalan D Murugan K and Swamiappan P M. Effect of plant toxin on the parasitisation. 1995.
35. Kavitha R Sivaramakrishnan S and Murugan K. Effect of botanicals on biological and reproductive parameters of *Atractomorpha crenulata* and *Helicoverpa armigera*, 1995.
37. Babu R and Murugan K. Impact of Azadirachtin on male reproductive system of Atractomorpha crenulata Fab. (Insecta: Orthoptera: Acrididae), 1995.
38. Senthil Kumar N Senthil Nathan S and Murugan K. Host plant influence on feeding and reproduction of teak pest *Hyblaea puera* and *Eutectona machaeralis*, 1995.

39. Murugan K. Neem as potential natural insecticides to control of teak pests. *Hyblaea puera* and *Eutectona machaeralis*. Proceedings of the World Forestry Cogress at Antalya, Turkey, October 1997, 1, (T5).

40. Murugan K. Effect of azadirachtin on the histology, biochemistry and metabolic enzymatic profiles during testis and ovarian development of *Atractomorpha crenulata* Fab. Proceedings of the XII International Congress of Comparative Endocrinology at Yokohama, Japan, November 1997.

41. Murugan K Jeyabalan D Senthil Kumar N Senthil Nathan S and Sivaprakasam. N. Growth promoting effects of plant products on silkworm - A biotechnological approach. Presented at Frontiers in Biotechnology at Trivandrum, Kerala, India, November, 1997.

42. Murugan K Sivaramakrishnan S Senthil Kumar N Jeyabalan D and Senthil Nathan S. Synergistic interaction of botanicals and biocides (Nuclear Polyhedrosis Virus) on pest control. Presented at Frontiers in Biotechnology at Trivandrum, Kerala, India, November, 1997.

43. Murugan K and Babu R. Impact of certain plant products and *Bacillus thuringiensis* Berliner subspecies kurstaki on the growth, feeding physiology of *Helicoverpa armigera* (Insecta: Lepidoptera: Noctuidae). Presented at Frontiers in Biotechnology at Trivandrum, Kerala, India, and November 1997.

44. Murugan K Senthil Kumar N Jeyabalan D Senthil Nathan S and Sivaramakrishnan S. Synergistic effect of botanicals and microbial pesticide on *Spodoptera litura* Fab. Presented at the National Symposium of Biopesticides and Insect Pest Management at Madras, Tamil Nadu, India. February 1998

The following papers were presented in "National Symposium on Biological Control of Insects in Agriculture, Forestry, Medicine and Veterinary Science" 21-22 January 1999 at Bharathiar University, Coimbatore, India

45. Senthil Kumar N Murugan K and Jeyabalan D. Effect of Azadirachtin, Nuclear *Polyhedrosis Virus* and *Bacillus thuringiensis* on the reproductive performances of *Helicoverpa* armigera Hub. January, 1999.
46. Babu R and Murugan K. Anti-reproductive effect of Azadirachtin on Insects. January 1999.
47. Senthil Nathan S Murugan K and Jeyabalan D. Effect of Azadirachtin and *Bacillus thuringiensis (*Berliner) on the behavioural and physiological response on *Cnaphlocrocis medinalis* Guenee (Rice leaf folder), January 1999.
48. Kalaivani K Murugan K Senthil Nathan S and Senthil Kumar N. Dietary influence on the parasitization of *Trichogramma chilonis* (Ishii), January 1999.
49. Murugan K Sivaramakrishnan S Poonkodi N Dhakshayani S Umamaheswari S and Thiagarajan P. Neem enhance the activity of entomopathogenic nematodes. January 1999.
50. Senthil Kumar V Murugan K and Sivaramakrishnan S. Screening of plant products on the control of *Callosobruchus maculatus* Fab. January 1999.
51. Sivaramakrishnan S Murugan K and Ramarethinam S. Impact of NPV and neem oil on the feeding biochemical changes and digestive enzymatic profiles of *Spodoptera litura* Fab. January 1999.

52. Ramarethinam S Murugan K and Udaiyan K. Effect of nimbisol and some herbal products on the control of ticks and mites on sheep, January 1999.
53. Perumal G Murugan K Senthil Kumar V and Gunasekaran P. Efficacy of plant products on control of forest pests, January 1999.
54. Amuthadevi P Murugan K and Jeyabalan D. Evaluation of certain plant oil on the control of dengue vector *Aedes aegypti.* January 1999.
55. Murugan K Umamaheswari N Poonkodi S Dhakshayani S and Swamiappan M. Parasitisation efficiency of *Chelonus blackburni* (Cam) on the bollworm complex. January 1999.
56. Murugan K Jeyabalan D Senthil kumar N and Sivaramakrishnan S. Growth promoting effects of plant compounds on silkworm. Presented at the National Seminar on Tropical Sericulture-1999, at University of Agriculture, Bangaore on December 28- 30, 1999.
57. Sivaramakrishnan S and Murugan K. Additive and synergistic interaction between entomopathogenic nematodes and *Bacillus thuringiensis* for root grub control. Paper presented at the National Symposium on microbials in IPM held at Entomology Research Institute, Loyola College, Chennai, India from 24th to 25th February 2000.
58. Murugan K and Senthil Kumar V. Interaction of entomopathogenic fungus, *Beauveria bassiana* and neem on the control of pod borer, *Helicoverpa armigera*. Paper presented at the National Symposium on microbials in IPM held at Entomology Research Institute, Loyola College Chennai, India from 24th to 25th February 2000.
59. Senthil Kumar N Murugan K Jeyabalan D and Babu R. Trans-ovarial mode of action of *Helicoverpa armigera* Nuclear Polyhedrosis Virus (HaNPV). Paper presented at the National Symposium on microbials in IPM held at Entomology

Research Institute, Loyola College, Chennai, India from 24th to 25th February 2000.

60. Murugan K Spencer T Behmer S J Simpson and David Raubenheimer. A Geometric analysis of nutrient-alkaloid interactions: A case study using the African Migratory Locust. Paper presented at the 11th International Symposium on Insect-Plant Interactions at Helsingor, Denmark, August 4 - 10, 2001.

61. Murugan K. "Host plant interactions and biological diversity of Insects". Paper presented at the National Symposium on Recent Trends in Restoration of Aquatic Environment and Biodiversity of Insects, February 15th & 16th 2002 at PG & Research Department of Zoology, Kongunadu Arts and Science College, Coimbatore-641 029, Tamil Nadu, India.

62. Murugan K. "Flower visitation and pollination potential of *Apis florea* Linn. in relation to nutritional quality of flowers". Paper presented at International Conference and World Apiexpo Bangalore, India, February 24 to March 1, 2002.

63. Murugan K. A synergistic activity of plant extracts with biocides (*Bacillus thuringiensis* var. israelensis) on the filarial vector, *Culex quinquefasciatus*. Paper presented at 3rd International conference on Biopesticides (ICOB) at Kuala Lumpur, Malaysia during 22-26 April 2002.

64. Murugan K. Insect and Environment. Paper presented at the UGC – Refresher Course on "Environmental Education" (from 10-5-02 to 30-5-02) on 26-05-02 at Academic Staff College, Bharathiar University, Coimbatore 641 046, India.

65. Murugan K. Botanical management of filarial vector, *Culex quinquefasciatus* Say. Paper to be presented at the 5th International Conference on

Dipterology, University of Queensland, Australia during 29th September 4th October, 2002.

66. The following papers were presented in 11th International Symposium on Insect-Plant Relationships was held in Helsingor, Denmark, from 4 August 2001 to 10 August 2001. Murugan K. Raubenheimer D., Simpson S., and S. Behmer, (2001) "A geometric analysis of nutrient-alkaloid interactions: a case study using the African migratory locust".

67. The following papers were presented in the 5th International congress of Dipterology held at the University of Queensland, Brisbane, Australia from 29th September to 4th October, 2002. Murugan K. (2002) "Botanical management of filarial vector, *Culex* Say."

The following papers were presented in "National Seminar on current trends in Biological sciences" to be held on 12-13th December 2002 at Department of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore, India.

68. Shobana K Murugan K Rajan M R and Thangamathi P. Evaluation of Different Feed Sources on Feed Utilization and Growth of Common Carp, (*Cyprinus Carpio* Var *Communis).* Presented at National Seminar on current trends in Biological sciences at Department of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore, India. 12-13th December 2002.

69. Shobana K Murugan K and Thangamathi P. Influence of Host Plant on Feeding Growth and Food Utilization Of Crimson Rose (*Pachliopta Hector*) On *Aristolochia indica.* Presented at National Seminar on current trends in Biological sciences at Department of Biochemistry and

Biotechnology, Avinashilingam Deemed University, Coimbatore, India. 12-13th December 2002.

70. Vahitha R Murugan K and Thiyagarajan P. Larvicidal activity of entomopathogenic fungi *Beauveria* bassiana (Balsamo) and neem oil on the control of filarial vector, *Culex quinquefasciatus* Say. Presented at National Seminar on current trends in Biological sciences at Department of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore, India. 12-13th December 2002.
71. Umamaheswari S Murugan K and Sumathi P. Entomopathogenic Fungi *Beauveria Bassiana* (Balsamo) And *Vitex negundo* On Control Of *Spodoptera Litura (*Fab.)*.* Presented at National Seminar on current trends in Biological sciences at Department of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore, India. 12-13th December 2002.
72. Thangamathi P Murugan K and Shobana K. Repellent Activity of Aromatic Oils On *Aedes aegypti.* Presented at National Seminar on current trends in Biological sciences at Department of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore, India. 12-13th December 2002.
73. Thangamathi P Murugan K and Shobana K. Larvicidal Efficacy Of Neem (*Azadirachta Indica*) Seed Kernel Extract And Karanja (*Pongamia Pinnata*) Seed Extract On *Culex Quinquefasciatus.).* Presented at National Seminar on current trends in Biological sciences at Department of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore, India. 12-13th December 2002.
74. Sumathi P Murugan K and Umamaheswari S. Synergistic Effect Of *Bacillus thuringiensis* (Berliner), Subsp. *Kurstaki* And *Azadirachta Indica* For The

Control Of *Plutella Xylotella* (L) Diamond Back Moth). Presented at National Seminar on current trends in Biological sciences at Department of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore, India. 12-13th December 2002.

75. Rajalakshmi L Murugan K. Biochemical Aspects Of Plant Juice Sucking Behavior Of Danaid Butterflies. Presented at National Seminar on current trends in Biological sciences at Department of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore, India. 12-13th December 2002.

76. Sivaramakrishnan S and Murugan K. Integration of *Azadirachta indica* with entomopathogenic nematodes for the control of root grub, *Holotricha serrata*. Paper included in the 4th International congress of Nematology FICN, (Tebel-Resort), Tenerife, Canary, Island, Spain. 2002.

77. Sivaramakrishnan S and Murugan K. Laboratory and field evaluation of *Sterinernema carpocapsae* and *Azadirachta indica* against Diamondback moth, *Plutella xylostella* Paper to be submitted at the XVth International Plant Protection Congrees, Beijing, China, 4 –10th July 2003.

78. Murugan K. Interactive effect of neem on the microbial pesticides for the control of bollworm, *Helicoverpa armigera* Hubner. Paper to be accepted to present at the e XVth International Plant Protection Congrees, Beijing, China. 4 –10th July 2003.

79. Murugan K. Influence of host plant tannin on the efficacy neem and *Bacillus thuringiensis* for the control of teak defoliator, *Hyblaea puera* Cramer. Paper to be accepted to present at the XIII World Forestry Congress to be held at Quebec, Canada, 21-28th September, 2003.

The following papers were presented in 3rd Global Meet on Parasitic Diseases held at Bangalore University, Bangalore, during January 12-16, 2004.

80. Sumathi P Umamaheswari S and Murugan K. Mosquitocidal effects of V*itex negundo* on malarial vector, A*nopheles stephensi*, liston. Presented at 3 rd Global Meet on Parasitic Diseases held at Bangalore University during January 12-16, 2004.
81. Latha R Vasugi C and Murugan K. Larvicidal and repellent activities of eucalyptus oil and lemon grass oil on dengue vector, *Aedes aegypti* linn. Presented at 3 rd Global Meet on Parasitic Diseases held at Bangalore University during January 12-16, 2004.
82. Thillaikarasi M S Thangamathi P and Murugan K. Mosquito larvicidal and repellent properties of *Acalypha indica*, *Acaranthes aspera* and A*zadirachta indica* on dengue vector *Aedes aegypti* linn. Presented at 3rd Global Meet on Parasitic Diseases held at Bangalore University during January 12-16, 2004.
83. Sasikala S Rajalakshmi L and Murugan K. Repellent potential of neem and citronella oil mixture on the malarial vector, *Anopheles stephensi* liston. Presented at 3rd Global Meet on Parasitic Diseases held at Bangalore University during January 12-16, 2004.
84. Umamaheswari S Sumathi P and Murugan K. Effect of *Datura metel* and *Calotropus gigantea* on the larvicidal effect of filarial vector, *Culex quinquefasciatus.* Presented at 3rd Global Meet on Parasitic Diseases held at Bangalore University during January 12-16, 2004.
85. Rajalakshmi L Thillaikarasi M S and Murugan K. Laboratory and field evaluation of plant extracts for the control of filarial vector, *Culex*

quinquefasciatus say. Presented at 3 rd Global Meet on Parasitic Diseases held at Bangalore University during January 12-16, 2004.

86. Murugan P Noortheen A and Murugan K. Larvicidal and repellent potential of *albizzia amara* and *Ocimum basilicum* on the dengue vector *Aedes aegypti.* Presented at 3 rd Global Meet on Parasitic Diseases held at Bangalore University during January 12-16, 2004

87. Revathi S Sumathi P Venmathi P Murugan K and Vanithakumari G. Anti-malarial and mosquitocidal plants and their insect pest management. Presented at 3 rd Global Meet on Parasitic Diseases held at Bangalore University during January 12-16, 2004.

88. Murugan K and Vanithakumari G. Integration of botanicals and microbial pesticides for the control of mosquito vectors. Presented at 3rd Global Meet on Parasitic Diseases held at Bangalore University during January 12-16, 2004.

89. Murugan K. Host plant selection and foraging strategies of caterpillar (*Danaus chrysippus*) and grasshopper (*Poecilocerus pictus*). Paper to be presented at the 10th International Conference on Behavioural Ecology, University of Jyvaskyla, Finland, 10-15, July 2004.

90. Murugan K. Bioactivities of microbial pesticides for the control of Cotton Boll worm, Helicoverpa armigera Hubner. Paper to be presented at the 4th International Conference on Environmental Aspects of Pesticide Microbiology at University of Aristotle, Thessaloniki, Greece, 5-9, September 2004.

91. A. Noortheen, P. Murugan, S. Kamalakannan and K. Murugan. "Mosquitocidal Properties of Plants from Anamalai Hills, Western Ghats, Southern India". Presented at National Seminar on "Health Environment

for the Next Generation", School of Entomology & Centre for Natural Resources Management (SECNARM), P.G. & Research Department of Zoology, Loyola College, Chennai during 2nd - 4th December, 2004

92. K. Murugan, G. Vanithakumari and A. Noortheen. "Biological perspective of Tsunami- Biopesticides spray operation at Tsunami affected areas of Tamil Nadu". Presented at the symposium on Tsunami "Bio-Geoinformatics 2005" Special reference to Tsunami and Disaster Management at the school of Genomics, Department of Zoology, Loyola College, Chennai during 28th February and 1st March, 2005.

93. A. Noortheen and K. Murugan. "Larvicidal and Pupicidal effect of *Kaempheria galanga* and *Plectranthus amboinicus* against the dengue vector, *Aedes aegypti* L". Presented at Two day National seminar on "Medical plants research- An Industry oriented perspective", Department of Biochemistry, Dr. G. R. Damodaran College of Science, Coimbatore during 21st -22nd June, 2005.

94. K. Murugan, G. Vanithakumari, M. Ramesh, V. Maruthappan, A. Noortheen, S. Kamalakannan, R. Ramesh Prabhu and N. Kamaladasan. "Biological Perspective of Tsunami: A Relief and Rehabilitation Strategy – Biopesticide Spray Operation for Mosquito, Flies and Disease Control". Presented at the International Conference on "Tsunami Management and Coastal Development", Hotel Taj Coromandel, Chennai during 30th July-1st August, 2005.

95. Murugan K. (2005) Biological Insecticides for the sustainable management of Insect Pests - Attended JIST – UNU (UNITED NATIONS) WORK WORKSHOP on "New Trends in Biotechnological and Geochemical Approaches for Sound management of Hazardous

Chemicals" at Gwangju Institute of Science and Technology, Gwangju, Korea during 2nd - 4th November, 2005

96. A. Noortheen and K. Murugan. Studies on the Interactive Effect of *Canarium strictum* and B*acillus thuringiensis* for the Control of Dengue Vector, *Aedes aegypti* L. (Insecta: Diptera: Culicidae). Presented at National Symposium on "Modern Biological Sciences", Department of Biosciences & Research, Shri Nehru Maha Vidyala (SNMV) College of Arts and Science, Coimbatore during 15th & 16th February, 2006.

The following papers were presented in "International Conference on Biodiversity of Insects: Challenging Issues in Management and Conservation (BIMC'06)", Department of Zoology, Bharathiar University, Coimbatore during 30th January- 3rd February, 2006.

97. A. Noortheen, K. Murugan and P. Premalatha (2006). Interactive Effect of *Plectranthus amboinicus* and *Canarium strictum* Against the Dengue Vector, *Aedes aegypti.*
98. M.S. Thillaikarasi, K. Murugan and A. Noortheen (2006). Larvicidal and Pupicidal and Smoke Repellency Effect of *Achyranthus aspera* and *Acalypha indica* on Dengue Vector, *Aedes aegypti.*
99. P. Premalatha, K. Murugan and A. Noortheen (2006). Studies on the Effect of *Murraya koenigii* Spreng. and *Bacillus thuringiensis* var. *israelensis* on the Larvicidal, Pupicidal and Repellency of Malarial Vector, *Anopheles stephensi* Liston.
100. P. Thangamathi, K. Murugan and A. Noortheen (2006). Repellent Activity of *Aristolochia indica* Against Filarial Vector, *Culex quinquefasciatus* Say.

101. P. Thangamathi, K. Murugan, S. Ananth and A. Noortheen (2006). Genetic Variation of *Culex quinquefasciatus* Say Populations in and Around Coimbatore City.

102. S. Rameshkumar and K. Murugan (2006) Studies on the host plant (A*rtrabtrys odoratissimus and* M*ichelia champaca*) feeding, growth and reproduction of (*Graphium agamemnon* and G*raphium sarpedon*) [Lepidoptera: Papilionidae]

103. P. Thiyagarajan and K. Murugan (2006) Feeding biology, growth and reprodution of *Popilio demoleus* (Linneans) on host plants.

104. A. Vineetha, K. Murugan (2006) Larvicidal and pupicidal activities of A*egle marmelos* and T*oddalia asiatica* on dengue vector, A*edes aegypti*

105. P. Thiyagarajan, S, Kamala kannan and K. Murugan (2006) Effect of leaf extracts of *Leucas aspera* and A*zadirachta indica* individually and synergistically on survival and development of mosquito larvae A*nopheles stephensi* (Diptera: Anophelinae)

106. S. Kamalakannan, K. Murugan and P. Thiyagarajan (2006) Effect of A*zadirachta indica* for the control of malarial vector A*nopheles stephensi* (Diptera: Anophelinae)

107. R.Vahitha and K. Murugan (2006) Smoke toxicity effect of plant products against filarial vector, C*ulex quinquefasciatus*

108. R. Vahitha and K. Murugan (2006) Effect of plant extracts on growth and development control of filarial vector C*ulex quinquefasciatus*

109. P. Murugan, L. Rajalakshmi, B. Vimala and K. Murugan (2006) Evaluation of larvicidal and repellent activity of *Kirganelia reticulata* baill.and *Erythrina suberosa* roxb.leaves against malarial vector mosquito A*nopheles stephensi* (l.).

110. V. Senthil Kumar and K. Murugan (2006) Efficacy of *Bacillus thuringiensis* and neem formulations against *Helicoverpa armigera* (HUBNER).

111. R. Uma Devi, K. Murgan and R. Radha (2006) Synergistic effects of botanicals on the repellency, toxicity, biology and damage assessment of bruchid beetle C*allosobruchus maculatus*.

112. R. Radha and K. Murugan (2006) Combined effect of plant extracts of A*nisomeles malabarica* (br.ex. sins) and A*zadirachta indica* (A.juss) on the ovipositional deterrancy, larval toxicity and repellency of the pulse beetle, C*allosobruchus maculatus* (Fabricus) (Coeloptera: Bruchidae).

113. B. Vimala and K. Murugan (2006) Studies on the host plant influences on the development and reproduction of A*phis craccivora* predatory efficiency of *Hippodamia convergens.*

Paper presented at the 6th International Congress on Dipterology was held at Fukuoka, Japan from 23-28, September, 2006.

114. Effect of neem seed kernel extract and neem based biopesticide, Nimbecidine for the control of *Aedes aegypti*. Larvicidal activities of tradional medicinal plant, *Protulaca oleracea* against *Aedes albopictus* (Culicidae) and *Paratanytarsus grimmii* (Chironomidae)

115. Larvicidal and Pupicidal effect of Datura metal L., var. on filarial vector, *Culex quinquefasciatus.*

116. Combined effect of *Bacillus sphaericus* and *Achyranthes aspera* on *Culex quinquefasciatus* Say.

117. Mosquitocidal effect of *Murraya koenigii* Spreng, against *Anopheles stephensi* Liston.

118. Murugan K. (2006) Invited lecture "Botanicals control of mosquito" Japanese Chironomid meeting on 21st and 22nd September, 2006 at Fukuoka, Japan.

119. Murugan K. (2006) Invited lecture on "Botanical and microbial control of mosquito vectors" at the 8th International Symposium on Vectors and Vector-Borne Diseases from 13-15, October, 2006 at Centre for Research in medical Entomology (ICMR), Madurai, Tamil Nadu, India

120. Kamalakannan S. and Murugan K. (2006). Mosquitocidal effect of *Tridax procumbens* extract against dengue vector, *Aedes aegypti.*

121. Thiyagarajan P. Murugan K. and Sivaramakrishnan S. (2006) Larvicidal, pupicidal and repellency effect of *Murraya koenigii* and *Bacillus thuringiensis* var israelensis against dengue vector, *Aedes aegypti.*

Paper presented at the International Conference in Zoology, was held during 19-22, 2006, at the Department of Zoology, Bangalore, India.

122. Murugan K. and Kamalakannan S. (2006) Effect of Novel Insecticide Spinosad and Azadiracthin for the control of malarial vector, *Anopheles stephensi* Liston

123. Kamalakannan S. and Murugan K. (2006) Larvicidal and adulticidal effect of fungal pathogen, *Beauveria bassianna* on malarial vector, *Anopheles stephensi Liston.*

124. Murugan K. and Kuppusamy C. (2006) Mosquitocidal effect of Cassia *fistula* against Bancraftian filariasis vector, *Culex quinquefasciatus*

Papers presented at the International conference on Biotechnological Approaches in Bioresoruce management (ICBABM-07) at Department of

Biotechnology, Bharathiar University, Tiruchirappalli, 620 024, Tamil Nadu, India. 23rd-26th, January, 2007.

125. A. Vineetha and K. Murugan (2007) Smoke Toxicity Effect of *Aegle marmelos* and *Toddalia asiatica* against dengue vector, *Aedes aegypti.*

Paper presented at the International Conference on "Opportunities & Challenges in Biotechnology and Environmental Sciences" at Vellalar College for Women, Erode, Tamil Nadu, India from 22 and 23, Feburary, 2007.118.

126. A. Vineetha and K. Murugan Evaluation of repellent activity of *Aegle marmelos* and *Toddalia asiatica* against dengue vector, *Aedes aegypti.*

127. K. Murugan (2007) Paper presented on "Butterfly diversity and conservation" at the International Natural Resource management at the Department of Animal Science, Bharathidasan Univeristy, Tiruchy, India during 23-26, January, 2007.

128. Sivaramakrishnan, K Murugan, P. Thiyagarajan. (2007) Exploration of Neem limonoids & entomophagous nematodes for the control of *Plutella xylostella L.* paper presented at the 5th World Neem Conference, 21-24, November, 2007, Coimbatore-India.

129. Thiyagarajan, K. Murugan, and S. Sivaramakrishnan (2007) Amalgamation of Neem Principles & Entomopathogenic Nematode for Termites Management. Paper presented at the 5th World Neem Conference, 21-24, November, 2007, Coimbatore-India.

130. Murugan K. (2007) Neem and its effect on the mosquito vectors with special reference to development of Biopesticides. Paper presented at the 5th World Neem Conference, 21-24, November, 2007, Coimbatore-India.

131. Vineetha A. and Murugan K. (2008). Oviposition deterrent and skin repellent activities of clove oil against the dengue vector, *Aedes aegypti* Paper presented at the National Seminar on Current Trends in Environment and Biosafety (SCEB, 2008) 8TH and 9th March, 2008, Department of Environment Science, Bharathiar University, Coimbatore-641 046, India.

132. P.Thiyagarajan, K.Murugan, S.Sivaramakrishnan "Larvicidal, Pupicidal and Repellency effect of *Murraya koenigii* and *bacillus thuringiensis* var.*isrealensis* against the dengue vector *Aedes aegypti*". Proceeding of 8th International conference symposium on vector and vector borne diseases organized by Center for research in Medical Entomology, Indian Council of Medical Research at Madurai from 13 to 15th October, 2006.Pp.188.

133. S.Kamalakannan, K.Murugan, P.Thiyagarajan. "Entomopathogenic fungi and neem based biopesticide for the control of Malarial, Filarial and Dengue vector in the endemic area of Tamil Nadu. International conference on Disaster Management at Eastern University of Sri Lanka, Sri Lanka on 9th to 11th December 2006.

134. Kadarkarai Murugan - Use of plant oil for the control of cockroach, *Periplaneta americana* (Linnaeus) presented at the 6th ICUP International Conference on Urban Pests 13-16 July, 2008 - Budapest, Hungary.

Papers presented at International Congress of Global Warming on "Biodiversity of Insects: Management and Conservation" during 9th to 12th, February, 2009 at Bharathiar University Campus, Coimbatore-641 046, India.

135. Aarthi N and K.Murugan. Larvicidal and repellent activity of citrus peel against filarial vector, *Culex quinquefasciatus* (Insecta: Diptera: Culicidae).

136. G. Nithya, T.Thangaraj and N.Aarthi. Influence of vermicompost on germination and growth of some edible plants.

137. A. Nareshkumar and K.Murugan .Impact of Climate Change on the Malarial Vector, *Anopheles stephensi*.

138. A. Nareshkumar, M.Jeyanthi and K.Murugan Larvicidal, Fecundity and Longevity Effect of Bacterial Pesticide, *Bacillus sphaericus* on the Malarial Vector, *Anopheles stephensi*

139. M. Jeyanthi, A.Nareshkumar and K.Murugan Bacterial pesticide, *Bacillus sphaericus* showing larval toxicity, Fecundity and Longevity on the Dengue Vector, *Aedes aegypti*

140. P.Madhiyazhalagan, A.Naresh kumar and K.Murugan.Larvicidal, Pupicidal, Repellency and Developmental Activity of Spinosad on the Malarial Vector, *Anopheles stephensi*

141. K.Prabhu, K.Murugan, Ramasubramanian, and A.Naresh kumar Larvicidal and

Pupicidal Activity of *Moringa oleifera* and Spinosad on the Malarial Vector *Anopheles stephensi* Listn.

142. C.Reejeth, A.Nareshkumar and K.Murugan Larvicidal and Pupicidal Activity of Nimbicidine on the Malarial Vector, *Anopheles stephensi*

143. P.R.Philips, A.Nareshkumar and K.Murugan Mosquitocidal Activity of *Aloe vera* extract on the Malarial Vector, *Anopheles stephensi*

144. D.Abirami, A.Nareshkumar and K.Murugan. Effect of *Kaempheria galangal* on the Larvicidal, Pupicidal and Repellent Potential on Dengue Vector, *Aedes aegypti* (Insecta: Diptera: Culicidae)

145. K.Kovendan, K.Murugan, P.Thiagarajan, A.Nareshkumar, D.Abirami and A.Asaikkutti. Impact of Climate change on the Filarial Vector, *Culex quinquefasicatus.*
146. Aarthi.N, K.Murugan P.Thiagarajan, A.Nareshkumar, K.Prasanna kumar, P.Maheshkumar,K.Kovendan,A.Parandaman,T.Natraj and Abirami.Larvicidal and Mosquito Repellent Activities of Pine oil (*Pinus longifolia*, Family: Pinaceae)
147. The Repellency and Larvicidal Effect of Certain Native Medicinal Plant's Extracts on the Chikungyna Vector *Aedes aegypti*
148. P.Thiagarajan, K.Murugan and A.Nareshkumar. Effect of *Cissus quadrangularis* L. Against the Filarial Vector, *Culex quinquefasciatus* (Insecta: Diptera: Culicidae)
149. V.Arun kumar, K.Murugan, A.Nareshkumar, D.Abirami, M.Salahudeen, C.Reejeth and Hemalatha. *Moringa oleifera* showing water purification and Mosquitocidal activity against Chikunguniya Vector, *Aedes aegypti*
150. D.Amerasan, K.Murugan, A.Naresh kumar, A.Asaikkutti, P.Mahesh kumar, T.Nataraj and V.Arunkumar.Impact of Global Warming on the Biology and Infestation Pattern of Mealy Bug, *Paracoccus marginatus* on Cotton, *Gossypium hirusutum*
151. D.Hemalatha, K.Murugan, A.Naresh kumar, D.Abirami, P.Mahesh kumar, T.Nataraj and V. Arunkumar. Effect of Global Warming on the Infection pattern Entomopathogenic Fungi on Mealy Bug, at different Agroclimatic Zone of Tamil Nadu, India
152. K.Prasanna kumar, K.Murugan, D.Abirami, N.Aarthi, A.Naresh kumar, P.Thiagarajan and K.Kovendan. Biology and Host Plant Preference on Mealy Bug

153. M.Salahudeen, K.Murugan, A.Naresh kumar, D.Abirami, P.Mahesh kumar,T.Nataraj and V.Arunkumar.Effect of Neem on Control of Cotton Mealy Bug, *Ferrisia virgata*

154. T.Nataraj, K.Murugan , A.Naresh kumar, D.Amerasan, G.Mahendran, P.Mahesh kumar, V.Arunkumar, D.Abirami and N.Aarthi.Effect of NPV on Biology of Cotton Pest, *Spodoptera litura.*

155. P.Mahesh kumar, K.Murugan, A.Naresh kumar, D.Abirami, M.Salahudeen, C.Reejeth, Hemalatha and N.Aarthi, Use of GIS for the Prediction of Mosquito Breeding and Botanical Management of Larvicidal and Pupicidal Population of Filarial vector, *Culex quinquefasciatus.*

156. K.Murugan, R.Radha and K.Shobana. Effect of *Anisomeles malabarica* on the feeding, damage potential and repellency of *Tribolium casteneum* (Herbst) (Coleoptera: Tenebrionidae).

157. P.Murugan and K.Murugan.Larvicidal and repellent activity of *Glycosmis pentaphylla* Hook and Ocimum basilicum Linn against malarial vector, *Anopheles stephensi* liston, (Insecta: Diptera: Culicidae).

158. Murugan K. International Forum on Mosquito Surveillance to attend International Forum for Surveillance and Control of Mosquitoes and Mosquito-Borne Diseases Beijing, China, May 25-28, 2009.

159. International Forum on Water Resources and Sustainable Development, and attend "International Forum on Water Resources and Sustainable Development" to be held at Wuhan University, China during September 22-24, 2009 and present a Invited paper on "Sustainable mosquito management and water purification using botanicals in different aquatic ecosystem".

160. Institute of Marine Biology National Taiwan Ocean University, Keelung, Taiwan, to attend International Conferences (1) Dormancy in crustaceans: basic research and applied science conference will be held on Oct. 6 and Oct. 7 Morning. (2) Zooplankton Behavior, Ecology and Aquaculture Conference will be held from Oct. 7 Afternoon and Oct. 8, 2009 to present a invited paper on "Use Of Plant Products And Copepod For The Control Of Dengue Vector, *Aedes aegypti.*

Papers presented at the 6th Asia-Pacific Congress of Entomology (APCE) from October 18-22, 2009 in Beijing, China

161. Murugan K Fajun Chen ., Feng Ge and Hui Wei [4] Climate change on the biodiversity conservation and host plant selection on butterflies/moths in the Western Ghats, Southern India

162. Murugan K., Fajun Chen, and Hui Wei Combined effect of spinosad and Azadiracthin on the toxicity, feeding, growth and nutritional physiology of *Spodoptera litura* Fab.

Papers presented at the Tenth International Symposium on Vectors and Vector Borne Diseases 4-6, November, 2009, Goa, India.

163. K. Kovendan, K. Murugan, A. Naresh Kumar And P. Thiyagarajan (2009) Larvicidal Activity Of *Cliestanthus collinus* Against Three Different Species Of Vector Mosquitoes.

164. Naresh Kumar, K. Murugan, K. Kovendan and P. Thiyagarajan (2009) Mapping of Vector Breeding Sites Using Arcview

165. P. Thiyagarajan, K. Murugan, A. Naresh Kumar and K. Kovendan (2009) Larvicidal, Pupicidal and Developmental Effect of *Beauveria bassiana o*n the Dengue Vector, *Aedes aegypti*

Papers presented at the 2nd Biopesticide International Conference (Biocicon - 2009) 26 - 28 November, 2009

166. Aarthi.N, Murugan. K, Larvicidal and repllent activity of *Vetiveria zizanioides* L, *Ocimum basilicum Linn* and the microbial pesticide spinosad against malarial vector, anopheles stephensi Liston (insects: Diptera: Culicidae)

Paper Presented at the 3rd Conference of Medical Arthropodology December 18 - 19, 2009, Madurai, Tamil Nadu, India.

167. Murugan.K and Vincent .S, (2009) Biological Management of Mosquito Vectors
168. A.Naresh Kumar, K.Murugan , P.Thiyagarajan, K.Kovendan, K.Prasanna Kumar D. Amaresh, P.Magesh Kumar ,(2009) Effect Of Jatropha Curcas And *Bacillus thuringiensis Israelesis* For The Control Of Mosquito Vectors
169. N.Aarthi and K. Murugan (2009) Antimalarial and antivectorial potential of medicainal plant *Cassia occidentalis* and *Andrographis paniculata*
170. C. Vasugi, D. Abirami, K. Shobana, K. Murugan, (2009) Use Of *Bacillus sphararicus* And *Mesocyclops leukarti* For The Control Of Dengue Vector, *Aedes Aegypti*
171. P. Thiyagarajan , K.Murugan , A. Naresh Kumar , K. Kovendan , K. Prasannna Kumar, (2009) Studies On The Eddect *Antrographis paniculata* Nees And *Beauveria Bassiana* On The Malarial Vector, *Anopheles Stephensi* (Diptera: Culicidae)
172. K.Prasanna Kumar, K. Murugan, K. Kovendan, A.Naresh Kumar, D.Amerasan and P.Mahesh Kumar, (2009) Larvicidal And Smoke Repellency Effect Of *Aegle marmelos* Against The Malaria Vector, *Anopheles stephensi* (Diptera:Culicidae)

173. K.Shobana, C. Vasgi, D.Abirami, K.Murugan and P.Mahesh Kumar, (2009) Identification of potential pesticide target of *Aedes aegypti* using metabolic pathways

174. K.Kovendan, K.Murugan, P.Thiyagarajan and A.Naresh Kumar, (2009) Control of Filarial Vector, *Culex quinquefasciatus* Using *Metarhizium anisopilae* And *Sphaeranthus indicus*

175. D. Abirami, K.Shobana, C.Vasugi, D.Ameerasan and K.Murugan, (2009) Sustainable Mosquito Management And Water Purification Using Botanicals In Siruvani River.

Papers presented at the National Conference on interplay of Biological and Chemical Sciences (NCIBCS - 2010) January 6 - 8, 2010, Vellore, Tamil Nadu, India

176. Murugan.K and Vincent .S. (2010) Integration of neem and microbial pesticides, spinosad for the control of mosquito vectors

177. Kovendan. K, Murugan .K, A. Naresh Kumar, P. Thiyagarajan Effect of *Phyllanthus emblica* and spinosad for the control of malarial vector, *Anopheles stephensi* at the different endemic area of tamilnadu , india.

178. Naresh Kumar .A, K.Murugan , Use of geographical information system (GIS) for the prediction of *Culex quinquefasciatus* breeding sites in Coimbatore, Tamilandu , India.

179. Abirami .D, K. Murugan, Mosquito control and water purification using botanicals in different aquatic ecosystem.

180. Kalimuthu K, K. Murugan, Effect of climate change on the bio efficacy of biopesticide (neem oil and *Beauveria bassiana*) for the control of stord beetle, Callosobruchus maculates at different agro climatic regions of Tamilnadu, india.

181. Prasanna Kumar K, K. Murugan, A. Naresh Kumar, K. Kovendan, Use of *Orthosiphon thymiflorus* for the mosquito vector management in the coastal regions of Tamilnadu , India

182. Subramaniam. J, K. Murugan. , Effect of climate change on the feeding ad host Plant diversity of butterflies in Western Ghats, Southern India.

183. Murugan K. (2010) Impact of climate change on the breeding of mosquito vectors and different agroclimatic zones of Tamil Nadu and Bioeffiacy Biopesticides for the control of mosquito vectors. Pleanary Lectures delivered in the International Conference on Climate Change and Bioresource (ICCCB-20100 at Bharathidasan University, Tiruchirappalli, India from 9-12 Feburary, 2010.

184. K. MURUGAN (2010) "Impact of climate change on biopesticides, mosquito vectors and mosquito borne diseases at the different agroclimatic zones of India". International Conference EDEN 2010 to be held in Montpellier (France) from 10th to 12th May 2010.

185. Coimbatore district Herbal and Tree Growers Association conducted a conference on 1st April 2010. Pleanary Lectures delivered on "Role of medicinal plants in control of insects causing infectious diseases" in Coimbatore, Tamil nadu.

186. XVI Annual convention of India Society for Veterniary immunology and Biotechnology and national symposium on "Novel biotechnological and immunological interventions in mitigation of climate changes on production and protection of livestock and poultry. Lead Lectures delivered on "Climate change on the management of mosquito and flies by using Biopesticides at different agroclimatical regions of Tamil nadu, India" held on 8th-10th April 2010 organized by Department of Veterinary

Microbiology, Veterinary College and Research Institute,Tamil nadu veterinary and Animal sciences University, Namakkal-637 002

Papers presented at the National conference on Impact of Climate Change on Biodiversity of Insects and Environment (CBI,'10), organized by the Department of Zoology, School of Life Sciences, Bharathiar University, Coimbatore, India, on 15th and 16th March, 2010.

187. K. Murugan. Bioefficacy of Plant Derivatives on the Repellency, Damage Assessment and Progeny Production of the Cowpea Weevil, Callosobruchus Maculatus (F) (Coleoptera: Bruchidae).
188. N.Aarthi, K.Murugan and C.Vasugi Larvicidal and Repellent Activity of against the Malarial Vector, *Anopheles stephensi* Liston
189. D.Abirami*, K.murugan and K.Shobana Effect of temperature on the development time and survival of Filarial vector *Culex quinquefasciatus* (Diptera: Culicidae)
190. D. Amerasan, K. Murugan and A. Naresh kumar. Effect of *Solanum tarvum* on the larvicidal, pupicudal and repellent activity on malarial vector, *Anopheles stephensi*.
191. M.Banupriya, Shivapriya shivakumar, G.Pravina and K. Murugan Larivicidal, pupicidal activity of *Euphorbia hirta* on the malarial vector, *Anopheles stephensi.*
192. K. Kalimuthu, K. Murugan, C. Panneerselvam and Subbiramani, Effect Of Temperature On The Bioefficacy Of Fungal Pathogen, *Metarhizim anisopliae* For The Control Of Bruchid Beetle, *Callosobruchus maculates*
193. K. Kovendan and K. Murugan. Impact Of Climate Change On The Malarial Vector, *Anopheles Stephensi* (Diptera: Culicidae)

194. P. Mahesh kumar, K. Murugan and A. Naresh kumar. Impact Of Climate Change And Global Warming On Filarial Vector, *Culex quinquefasciatus*

195. A. Naresh kumar and K. Murugan. GIS In Mapping Mosquito Born Diseases.

196. C.Panneerselvam, V. Mariappan, K.Murugan and K.Kalimuthu. A Study on The Level of Uric Acid and Aminoacid in the excretory material of mulberry Silkworm, *Bombyx Mori*, L.

197. Panneerselvam.C, R.Ramakrishnan, K.Murugan and K.Kalimuthu. Characterization of Lactate Dehydrogenase Enzyme Related To Carbohydrate Catabolism In The Cattle Filarial Worm, *Setaria Digitata* (Nematoda: Onchocercidae)

198. K. Prasanna Kumar, K. Murugan, A. Naresh Kumar, K. Kovendan, P.Thiyagarajan and D.Abirami. Use Of Orthosiphon Thymiflorus For The Mosquito Vector Management In The Coastal Regions Of Tamil Nadu, India.

199. G. Pravina., M. Banupriya., Shivapriya shivakumar and K. Murugan. Larvicidal, Pupicidal Activity Of Andrographis Paniculata On The Malarial Vector, *Anophles stephensi.*

200. Shobana K., Murugan K., Abirami D. and Naresh. In silico Docking of Active Compounds of *Chenopodium ambrosioides* Essential oil with Acetylcholinesterase of S. Litura

201. J.Subramaniam, K. Murugan, K.Kalimuthu and C.Pannerselvam. Effect of Water Temperature on the Predatory Efficiency of Copepod, *Mesocyclops aspericornis* (Copepoda) For the Control of *Aedes Aegypti.*

202. T.Jeyalalitha· K.Murugan and D.Abirami. Climate Change and Insect - Borne Disease.

203. P.Thiyagarajan, K.Murugan, D.Abirami, C. Vasugi and A. Naresh kumar. Impacts of Climate Change in Dengue Vector, *Aedesa aegypti* and Potential Management.

204. C. Vasugi, K. Murugan, A. Naresh and P. Thiyagarajan. Integration of *Bacillus sphaericus, Delonix elata* (Flame of the Forest) and *Mesocyclops Leuckartii* for the Control of Dengue Vector, *Aedes Aegyptii*

205. Shivapriya shivakumar, K.Murugan, M.Banupriya, and G. Pravina. Larvicidal , Pupicidal , Activity Of C .Occidentalis And *Bacillus sphaericus* on the Malarial Vector, *Anopheles stephensi.*

206. C. Vasugi, K. Murugan, P.Thiyagarajan and A.Naresh. *Delonix Elata* (Flame of the Forest) and *Mesocyclops leuckartii* for the Control Of Dengue Vector, *Aedes Aegypti*

207. Murugan et al. (2010) "Mosquitocidal effect of *Andrographis paniculata*, *Euphorbia hirta* and *Cassia occidentalis* on Malarial Vector, *Anopheles stephensi.* At the 4th Asian Congress of Tropical Medicine and Parasitology, 2-4, June, 2010 at Singapore, Organised by Singapore Society of Microbiology and Biotechnology, Environmental Health Institute, Singapore.

208. K. Kovendan and K. Murugan (2010) Antimalarial activity of *Carica papaya* on *Plasmodium falciparam*.

Paper presented at the Korean Society of Applied Entmology, Korea 13th May 2010.

209. Haribalan Perumalsamy, Kadarkarai Murugan and Young-Joon Ahn (2010). Larvicidal activity of compounds identified in Pongamia pinnata against *Aedes aegypti* and *Culex pipiens* pallens.

Papers presented at The XIIth International Congress of Parasitology (ICOPA), Melbourne, Australia, 15th to 20th August 2010.

210. K. Kovendan and K. Murugan (2010) Antimalarial activity of *Carica papaya* on *Plasmodium falciparam*.
211. A. Naresh Kumar and K. Murugan (2010) Antimalarial and antivectorial activity of *Cassia occidentalis* against *Plasmodium berghei* and *Anopheles stephensi*.

Papers presented at the International Federation of Environmental Health (IFEH) and the Canadian Institute of Public Health Inspectors (CIPHI), we are pleased to invite you to speak at the 11th World congress and environmental congress on envronmental health to be held at thew westin bayshore resort and marina (1601 Bayshore Drive, Vancouver, BC) in Vancouver, British Columbia, Canada from September 5th to 10th, 2010.

212. K. Murugan (2010). Integration of Botanical and Microbial Insecticides for the Sustainable Management of Mosquito Vectors of Malaria, Filariasis, Dengue and Chikungunya.

Paper presented at the 3rd Asian Lepidoptera conservation symposium (Convener) during 25-29 October, 2010.

213. Murugan K. (2010) Host plant diversity of butterflies and moths and their conservation stratgeties in Western Ghats, Southern India
214. Impact of climate change on the biodiversity conservation of butterflies in Wester Ghats, Sotuerhn India,

The following papers presented at The 2nd International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses (The 2nd ISMP) Petra-Jordan, 3-4, November 2010.

215. K. Murugan and Wei Hui (2010) Antivectorial and Antimalarial Acvitity *Chenopodium ambrosioides* on malarial vector, *Anopheles stephensi* Liston and Plasmodial parasite, *Plasmodium falciparam.*

216. K. Kovendan and K. Murugan (2010) Effect of medicinal plants on the mosquito vectors from the different Agro-climatic regions of Tamil Nadu, India.

217. A. Naresh Kumar and K. Murugan (2010) Antimalarial and Antivectoral Activities of traditionally used Indigenous medicinal plants.

218. K. Prasanna Kumar and K. Murugan (2010) Effect of Botanicals *Orthosiphon thymiflorus* for the control of mosquito vectors and for the development of Eco-Friendly Biopesticides.

219. Murugan K. (2010) Integration of Botanical and Microbial Insecticides for the Sustainable Management of Mosquito Vectors of Malaria, Filariasis, Dengue and Chikungunya,

220. Kadarkarai Murugan (2011) Toxicity and biological effects of neem limonoids on diamond back moth, *Plutella xylostella.* 6th International Workshop on Cruciferous and other pests, Kasersat University, Thailand, 22-25 March, 2011.

221. Impact of climate change on the biodiversity conservation of butterflies in Western Ghats, Southern India and mosquito vector management by

using biopesticides at dofferent agroclimatic regions of Tamil Nadu, India, Greenhouse 2011 The Science of Climate Change , Cairns Convention Centre, Queensland, Australia, 4-8 April 2011.

222. K. Kovendan, K. Murugan and P. Thiyagarajan (2010) Effect of *Acalypha alnifolia* and *Metarhizium anisopliae* for the control of filarial vector, *Culex quiquefasciatus* at International Conference on Climate Change and Bioresource (ICCCB-2010) 9-12 February 2010, Bharathidasan University, Tiruchirapalli – 620 024.

223. K. Kovendan and K. Murugan (2010) Impact of Climate Change on the malarial vector, *Anopheles stephensi* (Diptera: Culicidae) at National conference on Impact of Climate Change on Biodiversity of Insects and Environment CBI' 2010 15, 16 March 2010.

224. K. Kovendan and K. Murugan (2011) Effect of *Acalypha alnifolia* and *Metarhizium anisopliae* for the control of malarial vector, *Anopheles stephensi* at the different endemic area of Tamil Nadu, India at International Conference Tropical Island Ecosystems: Issues Related to Livelihood, Sustainable Development and Climate Change, CARI, Port Blair, Andaman & Nicobar Islands, India 23-26 March 2011.

The following papers presented at The International Symposium on Recent Advances in Ecology and Management of Vectors and Vector Borne Diseases, 1-3 December, 2010, Gwalior, Madhya Pradesh, India.

225. K. Kovendan and K. Murugan (2010) Integration of botanical pesticides for the control of malarial vector, *Anopheles stephensi* at different Agro-climatic regions of Tamil Nadu.

226. K. Prasanna Kumar, D. Amerasan, K. Kalimuthu, C. Panneerselvam and D. Abirami (2010) Integration of botanicals for the control mosquito vectors in gulf mannar, Tamil Nadu.
227. P. Thiyagarajan and K. Murugan (2010) Effect of Spinosad on the mosquuitocidal activity of Ocimum sanctum against the malarial vector, *Anopheles stephensi*.

The following papers presented at the 2nd INTERNATIONAL CONGRESS ON GLOBAL WARMING ON IODIVERSITY OF INSECTS: MANAGEMENT AND CONSERVATION (GW-BIMC' 11), August 24-26, 2011, Coimbatore, India.

228. D. Abirami* and K. Murugan (2011) Oviposition Deterrent, Ovicidal and Deleterious Delayed Mortality Effects Of A-Amyrin Acetate Against The Malarial Vector, *Anopheles stephensi* (Diptera: Culicidae).
229. Kanagarajan Prasanna Kumar* and Kadarkarai Murugan (2011) Combined effect of seaweed *Sargassum wightii* greville and *fungal pathogen Metarhizium anisopliae* against coastal mosquito vector *Anopheles sundaicus (L.)* Tamil Nadu, India
230. Praseeja cheruparambath* and Dr.K.Murugan (2011), studies on the Effect of elevated co2 on the infestation pattern and control of *Spodoptera litura* (Fab.) special reference to *Bacillus thuringiensis* and *Bracon brevicornis* wesmael.
231. P. Madhiyazhagan*, K. Murugan, A. Naresh kumar, S. Thangamani and P. Mahesh Kumar (2011) effect of global warming on the development time and survival of malarial vector, *Culex quinquefasciatus* (Diptera: Culicidae)

232. C. Panneerselvam*, K.Murugan, J. Subramaniam, K. Kalimuthu and S. Thangamani (2011) Antimalarial Potential of Neem Limonoids Against *Plasmodium falciparum*

233. J. Subramaniam, K.Murugan, C.Panneerselvam, S. Thangamani and K. Kalimuthu (2011) Screening For Larvicidal Activity In *Aloe vera* With Microbial Insecticide, *Bacillus thuringiensis* (Bti) Against Dengue Vector, *Aedes Aegypti* (Diptera: Culicidae)

234. P. Mahesh Kumar*, K. Murugan, K.Kalimuthu, A.Naresh Kumar, K.Kovendan, K.PrassanaKumar, C.Panneer Selvam and P. Madhiyazhagan. (2011) Effect of climatic change and global warming on the bioefficacy of *Solanum xanthocarpum and Bacillus sphaericus* against dengue vector, *aedes aegypti (*l.) (Insecta: Diptera: Culicidae)

235. D.Amerasan*, K. Murugan, K, Jayaraj R.S.C, *Balu* A, Feng Ge, and N. Krishna kumar (2011) Effect of Elevated Co2 against Cotton Pest *Paracoccus marginatus* And Bio –Efficacy Of Fungal Toxin *Metarhizium anisopliae*

236. Kalimuthu. K, Murugan.K, Mahesh kumar.P (2011) Repellent activity ofTraditional plant *Plectranthus amboinicus* extract against A*nopheles stephensi* and *Aedes aegypti*

237. N.AARTHI and K.MURUGAN (2011) Studies on the effect of *Euphorbia hirta* And *Vetiveria zizanioides* on the ovicidal and Oviposition Deterrent Activity Against the Malarial Vector, *Anopheles stephensi*.

238. Thangamani S, Murugan K, Jayaraj R.S.C, *Balu* A, Feng Ge, and N. Krishna kumar (2011) Effect of Elevated Co_2 (co_2 open top chamber) on bt cotton (*Gossypium hirsutum*) feeding, growth and development of *Helicoverpa armigera* (hubner) (Insecta: Lepidoptera: Noctuidae).

239. The following papers presented at the THIRD INTERNATIONAL BIOPESTICIDE CONFERENCE (BIOCICON 2011): BIOCICON-2011 is being organized from 28 to 30 November 2011 by Crop Protection Research Centre, Department of Advanced Zoology and Biotechnology, St. Xavier's College (Autonomous), Palayamkottai, Tamil Nadu, India in collaboration with Centre for Plant Protection Studies Tamil Nadu Agricultural University, Coimbatore-641 003, India.

240. Subramanian, J. **Murugan, K.** Kovendan, K. (2011) Larvicidal and pupicidal efficacy of *Momordica charantia* leaf extract and bacterial insecticide, *Bacillus thuringiensis* against malarial vector a *Anopheles stephensi* liston. (Diptera : Culicidae)

241. Panneerselvam, C. P. Aruna, **K. Murugan,** Thangamani, S., Thiyagarajan, P. (2011) Larvicidal and pupicidal propeties if Gaultheria oil and *Agave sisalana* against filarial vector , *Culex quinquefasciatus* (Insecta : Diptera : Culicidae)

242. Kovendan, K. **Murugan K.,** Vincent, S. Donald R, Barnard (2011). Larvicidal and pupicidal properties of *Acalypha alnifolia* Kein ex wild (Euphorbiacae) leafextract and microbial insecticide, *Metarhizium anisopliae* (metsch.) Against lymphatic filarial vector, *Culex quinquefaciatus* Say. (Diptera:Culicidae)

The following papers presented at the International Conference on Biopesticides 6. 11 - 16 December, 2011 CHIANGMAI, THAILAND.

243. Panneerselvam, C and **K. Murugan** (2011) Efficacy of plant-mediated synthesized silvernanoparticles against malarial vector, *Anopheles stephensi* L

244. Prasannakumar K and **K. Murugan** ((2011). Effect Of Temperature On Marine Seaweed Gracillaria Verrucosa And Spinosad Which Act As Natural Bioside For The Control Of Coastal Malarial Vector *Anopheles sundaicus* (L.) In Tamil Nadu, India.

Presented papers at the "National Seminar on Advances in Zoology & Life Processes" Organized by Department of Zoology, Goa University, Goa, 9th to 11th February 2012

245. D. Amerasan, K. Murugan, K. Kovendan, P. Mahesh Kumar, C. Panneerselvam, J. Subramaniam, R.S.C. Jayaraj, A. Balu and N. Krishnakumar (2012) Influence of Elevated CO2 plant chemistry and Bio-chemical changes of Papaya Mealy bug, *Paracoccus marginatus* (Insecta: Hemiptera: Pseudococcidae).
246. K. Kalimuthu, K. Murugan, C. Panneerselvam and P. Mahesh Kumar (2012) Labortaroy evaluation of larvicidal activity of medicinal plant Plectranthus amboinicus (Lamiaceael extracts against *Aedes aegypti* and *Culex quinquefasciatus*
247. K. Kovendan and K. Murugan (2012) Mosquitocidal efficacy of *Orthosiphon thymiflorus* (Roth) Sleesen. leaf extract and Microbial insecticide, *Metarhizium anisopliae*, against dengue vector, *Aedes aegypti* (Diptera: Culicidae)
248. P. Madhiyazhagan, K. Murugan and A. Naresh Kumar (2012) Effect of *Centella asiatica* leaf extract against the malarial vector, *Anopheles stephensi* Liston (Insecta: Diptera: Culicidae)
249. P. Mahesh Kumar, K. Murugan, K. Kovendan, J. Subramaniam, D. Amerasan, K. Kalimuthu and T. Nataraj (2012) Combined effect of

Cadaba trifoliate leaf extract with *Bacillus thuringiensis* against malarial vector, *Anopheles stephensi* Liston. (Diptera: Culicidae)

250. T. Nataraj, K. Murugan, P. Mahesh Kumar and J. Subramaniam (2012) Synergistic effect of NPV, AZA and TiO_2 on the feeding, growth and reproduction of *Spodoptera litura* (Fab).

Presented papers at the "International Conference on Entomology" Organized by Department of Zoology & environmental Sciences Punjabi University, Patiala, Punjab, India February 17th to 19th 2012.

251. C. Panneerselvam, K. Murugan, K. Kovendan, K. Kalimuthu, J. Subramaniam and P. Mahesh Kumar (2012) Screening of Artemisia nilagirica with Bacillus thuringiensis for larvicidal activity *Anopheles stephensi* Liston. (Diptera: Culicidae)

252. K. Kalimuthu, K. Murugan and C. Panneerselvam (2012) Mosquito bio-larvicidal of *Cadaba indica lam* combined with bacterial endotoxins insecticide, Baciallus thuringiensis, against dengue vector, *Aedes aegypti* (Diptera: Culicidae).

253. K. Kovendan and K. Murugan (2012) Efficacy of *Orthosiphon thymiflorus* (Roth) Sleesen. leaf extract and Microbial insecticide, *Metarhizium anisopliae*, against *Anopheles stephensi* Liston. (Diptera: Culicidae).

Presented papers at the "national Conference on FRONTIER AREAS IN APPLIED ZOOLOGY" Organized by Department of Zoology, Ayya Nadar Janaki Ammal College, Autonomous, Affiliated to Madurai kamarajar university, Sivakasi, Tamilnadu, India. March 15th to 17th 2012.

254. Durga devi G, Nathiya V and K.Murugan (2012) Effect of *Tephosia purpurea* and *Adathoda zeylanica* on fecundity and hatchablity of *Culex quinquefasciatus* (Say).

255. Nathiya.V, G.Durga davi, Mathiyalagan and K. Murugan. (2012) Effect of bacterial toxin HD-1 against the larval and adult emergence of oryctes rhinoceros.

256. Praseeja cheruparambath, G.Durga davi, and K. Murugan. (2012) Effect of elevated CO_2 on plant-pest and parasitoid interactions in special referenca with *Gossypium hirsutum* (Bt cotton), *Spodoptera litura* and its parasitoid *Bracon brevicornis*.

257. G.Durga Devi and Murugan, 2012. Studies on the Effect of Elevated CO_2 on the cotton (*Gossypium hirsutum*) plant and cotton Bollworm *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae), National Seminar on "New Frontiers in Biology, 18th & 19th December 2012 at PG Department of Zoology at Jayaraj Annapackiam College for Women (Autonomous), Periyakulam.

Paper presented at the Second Cross Straints Workshop on Marine Biodiversity from 12-14, October, 2012 at National Taiwan Ocean University, Taiwan.

258. Kadarkarai Murugan and Jiang Shiou Hwang (2012) Integrative Use of Marine Seaweed, *Gracilaria verrucosa*, Microbial Insecticide, Spinosad and Copepods for Mosquito Vector Management – A Sustainable Approach.

The following papers were presented at Regional Science Congress Symposium on Animal, Veterinary and Fishery Sciences held by The Indian Science Congress Association, Coimbatore Chapter & Kongunadu Arts and Science College, Coimbatore, India at Kongunadu Arts and Science College, Coimbatore, India on 15-16th December, 2012.

259. Suganya Ayyappan, Kadarkarai Murugan, G.Durga Devi, Mathath Roni, Christina Mary.S and Sivapriyajothi.S. Studies on the Anti-vector activity of *Murraya koenigii* on the malarial vector, *Anopheles stephensi.* P-96.
260. Sivapriyajothi. S, Murugan. K, Christina Mary.S, Roni.M and N.A.Suganya.(2012). Studies on the Antivectorial activity of *Leucas aspera* on the malarial vector, *Anopheles stephensi.* P-97.
261. Roni. M, Murugan. K, G. Durga Devi, S. Christina Mary, S. Sivapriyajothi and N.A.Suganya.(2012). Larvicidal and Pupicidal efficacy of *Nerium oleander* against *Anopheles stephensi.* P-103.
262. Christina Mary. S, Murugan. K, Roni.M, Sivapriyajothi.S and N.A.Suganya (2012). Mosquitocidal activity of *Adiantum capillus-veneris* plant extract for the control of malaria vector, *Anopheles stephensi.* P-99.
263. Madhiyazhagan. P, Murugan. K, Naresh Kumar, A and Nataraj T. (2012). Larvicidal and Pupicidal effect of fungal pathogen, *Verticillium lecanii* against dengue vector, *Aedes aegypti.*P-101.
264. Subramaniam. J, Murugan. K, K.Mahesh Kumar.P, Panneerselvam,C and D.Amerasan. (2012). Sustainable and Eco-friendly approaches for the control of filarial vector, *Culex quinquefasciatus.*P-101.

265. Durga Devi. G, Murugan,K, Subramanian.J and C. Panneerselvam K.(2012). Larvicidal and Pupicidal of *Couroupita guianensis* leaf extract and bacterial insecticide, *Bacillus thuringiensis israelensis* against malarial vector,

266. Nataraj.T, Murugan.K, Madhiyazhagan.P, Naresh Kumar.A and Thiyagarajan. P. (2012). Preparation of *Phyllanthus emblica* plant mosquito coil and its smoke toxicity effect against malarial vector, *Anopheles stephensi.* P-91.

Gurusamy Durga Devi and Kadarkari Murugan, 2013. Studies on the effect of Insecticidal properties of *Alocasia macrorrhiza* (L). Schott (Alismatales:Araceae) against the cotton bollworm *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae). National conference on Advances in Modern Biology and Environment (AMBIEN-2013), 7th -8th February-2013 at Eco-club and Department of Zoology, H.H. The Rajah's Government college (Autonomous B+), Pudukkottai.

The following papers were presented at 100th Indian Science Congress, Kolkata. India. January 3-7, 2013.

267. Subramaniam J, Murugan K, Kovendan K and Mahesh kumar P (2013). Screening of larvicidal activities of *Solanum xanthocarpum* (Family: Solanaceae) leaves extracts against Dimondback moth, *Plutella xylostella* (Lepidoptera: Plutellidae), (Section of Agriculture and Forestry Sciences).

268. Kovendan K, Murugan K and Vincent S (2013) Evaluation of *Morinda citrifolia* leaf extract at different agroclimatic regions of Tamil Nadu, India for the control of mosquito vectors, (Section of Animal, Veterinary and Fishery Sciences).

269. Mahesh Kumar P, Murugan and Kovendan K (2013) Bio efficacy of *Cadaba trifoliata* leaf extract with spinosad against mosquito vectors, *Aedes aegypti* and *Culex quinquefasciatus* (Diptera: Culucidae), (Section of Animal, Veterinary and Fishery Sciences).

270. G.Durga Devi, K. Murugan, P.Madhiyazhagan, P.Mahesh Kumar, D.Amaresh and T.Nataraj, Studies on the effect of *Bacillus thuringiensis* Subsp. kurstaki, and *Couroupita guianensis* on the feeding, growth, reproduction and biochemical changes of *Spodoptera litura* Fab (Lepidoptera: Noctuidae). International Conference on Advances in Biotechnology and Patenting (ICABP-2013), 18th to 21st February 2013. Organized by School of Biotechnology and School of Chemistry, Bharathidasan University, Tiruchirappalli,

271. G.Durga Devi, S.Ilango and K.Murugan, 2013. Plant products Inhibit Adult emergence of *Culex quinquefasciatus* say. National seminar on "Recent trends in Bioactive substances -2013(RTBASS-2013), 5th -6th, March-2013 at PG and Research Department of Botany, Government Arts College (Autonomous), Karur,

272. G.Durga Devi, K. Murugan, 2013. Larvicidal and Pupicidal Efficacy of *Alocasia macrorrhiza* (L.) (Araceae) Leaf methanolic extract and Bacterial Insecticide, *Bacillus thuringiensis israelensis* against the Dengue Vector, *Aedes aegypti* Liston. (Diptera: Culicidae). First International and Third National Conference Biotechnology, Bioinformatics and Bioengineering held at Hotel Udayee International, Tirupati, Andra Pradesh, South India during June 28th – 29th, 2013.

273. Priya, K. Murugan P. Aruna and G. Durga Devi, 2013. Mosquito larvicidal and pupicidal activity of *Pongamia pinnata* L. Methanolic leaf extract against the malarial vector, *Anopheles stephensi* (Diptera:

Culicidae) 3nd International Congress on Global Warming on Biodiversity of insects: Management and conservation (GW-BIMC, 2013), 26th– 28th November, 2013 at Department of Zoology, Bharathiar University, Coimbatore.

The following papers were presented at "International Conference on Challenges in Aquatic Sciences", organized by Professor Dr. Jiang Shiou Hwang, Institute of Marine Biology, National Taiwan Ocean Univeristy, Taiwan from March 15-18, 2013.

274. Subramaniam J, Murugan K, and Jiang Shiou Hwang (2013). Evaluation of sustainable and ecofriendly approahces of Indian seaweed against the coastal malarial vector, *Anopheles sundaicus.*
275. Subramaniam J, Murugan K, Kovendan K and Mahesh kumar Jiang Shiou Hwang Kandasamy Kalimuthu (2013). Control of mosquito vectors, *Aedes aeygpti, Anopheles stephensi and Culex quinquefasciatus using seaweed, Valoniopsis pachynema*
276. Kandasamy Kalimuthu, Jiang Shiou Hwang, Lin Show Mei, Kadarkarai Murugan, Li-Chun Tseng (2013). Bioefficacy potential of seaweed Gracilaria firma with copepod, *Megacyclops formasanus* for the control of *Dengue vector Aedes Aegypti*
277. James Pitchai G, Kadarkarai Murugan, and Jiang Shiou Hwang (2013) Impact of fish pond effluent irrigations on soil properties and yield of Rice
278. Santhosh Sarkar, Kadarkarai Murugan, and Jiang Shiou Hwang (2013) Distribution of dissolved trace metals in coastal regions of sundarban mangrove wetland, West Bengal, India

279. Kadarkarai Murugan, and Nataraj.T, Murugan.K, Madhiyazhagan.P, Naresh Kumar.A Jiang Shiou Hwang (2013) Climate change on the mosquito prevalence in aquatic system and their management by biological insecticides

280. Kovendan K, **Murugan K** and Vincent S. Evaluation of *Morinda citrifolia* leaf extract at different agro-climatic regions of Tamil Nadu, India for the control of mosquito vectors Paper presented at the "100th Indian Science Congress" Organized by Calcutta University, Kolkata, during 3rd -7th January 2013

281. Kovendan K, Praseeja C, **Murugan K** and Vincent S. Mosquitocidal activity of *Morinda citrifolia* leaf extract and *Metarhizium anisopliae* against malaria vector, *Anopheles stephensi* (Diptera: Culicidae) Paper presented at the "National level conference on Biological Conference, 2013" Organized by Department of Zoology, Calicut University, Kerala, during 11th -13th March 2013.

282. Kovendan K, **Murugan K** and Vincent S. Mosquitocidal properties of *Acalypha alnifolia* and *Metarhizium anisopliae* against dengue vector, *Aedes aegypti* (Diptera: Culicidae) Paper presented at the "International Conference on Advances in biotechnology and Patenting (ICABP-2013)" Organized by Bharthidasan University, Trichy, during 18th – 21st February 2013.

283. Kovendan K, **Murugan K** and Vincent S. Evaluation of *Morinda citrifolia* leaf extract at different agro-climatic regions of Tamil Nadu, India for the control of mosquito vectors. Paper presented at the "3rd Annual Conference of Clinical Infectious Diseases Society", Organized by CIDSCON 2013, Mumbai during 30th August – 1st September 2013.

284. Kovendan K, **Murugan K,** Vincent S. Bio-efficacy of *Morinda citrifolia* leaf extract and *Metarhizium anisopliae* against dengue vector, *Aedes aegypti* (Diptera: Culicidae) Paper presented at the "XII International Conference on Vector and Vector Borne Diseases", Organized by Department of Zoology, Mohanlal Sukhadia University, Udaipur, Rajasthan, and National Academy of Vector Borne Diseases, Bhubaneswar India, during 16th – 18th September 2013.

285. Kovendan K, **Murugan K** and Vincent S. Impact of Climate Change on the malarial vector, *Anopheles stephensi* in different Agro-Climatic Zones of Tamil Nadu, India. Paper presented at the "XXth World Congress on Parkinson's Diseases and Related Disorders", Organized by Congress Secretariat, International Association of Parkinsonism and related Disorders, Amsterdam, Netherlands at Palexpo Geneva, Switzerland during 8th – 11th December 2013.

286. Kovendan K, **Murugan K** and Vincent S. Mosquitocidal properties of *Morinda citrifolia* leaf extract against malarial vector, *Anopheles stephensi* and dengue vector, *Aedes aegypti*. Paper presented at the "International Conference on Vector Borne Diseases - Combat and Control" Organized by Department of Zoology, Justice Basheer Ahmed Sayeed College for Women, Chennai, during 22nd - 23rd January 2014.

287. Kovendan K, Mahesh Kumar P, **Murugan K** and Vincent S. Impact of Climate Change on the dengue vector, *Aedes aegypti* in Different Agro-Climatic Zones of Tamil Nadu, India. Paper presented at the "6th ASEAN Congress of Tropical Medicine and Parasitology (ACTMP) 2014" Organized by 6th ACTMP 2014 Congress Secretariat, Intercontinental Hotel, Kuala Lumpur, Malaysia, during 5th -7th March 2014.

288. Presented a Poster **in "International Conference on Advances in Biotechnology and Patenting (ICABP-2013)"**, 18th to 21st February 2013. Organized by School of Biotechnology and School of Chemistry, Bharathidasan University, Tiruchirappalli. J. Subramaniam, K. Murugan, K. Kovendan, P. Mahes Kumar, K. Prasanna kumar and **G. Durga Devi.,** Larvicidal Activity Of Botanical Insecticide And Microbial Insecticide against Dengue Vector, *Aedes Aegypti* And Asian Army Worm *Spodoptera Litura*.

289. Presented a Poster in **"International Conference on Advances in Biotechnology and Patenting (ICABP-2013)"**, 18th to 21st February 2013. Organized by School of Biotechnology and School of Chemistry, Bharathidasan University, Tiruchirappalli. C. Panneerselvam, K. Murugan, K. Kovendan, P. Mahesh Kumar, D. Amerasan, J. Subramaniam, **G. Durga Devi** and S. Vivek, Anti-Malarial Potential Of Neem Limonoids Against *Plasmodium Falciparum.*

290. C.Panneer selvam, K.Murugan, K.Kalimuthu, D.Amerasan, P.Madhiyazhagan, T.Nataraj, **G.Durga Devi** and Chandra Mohan,2013. Mosquito Larvicidal, Pupicidal activity of *Euphorbia hirta* and bacterial insecticide, *Bacillus sphaericus* against the malarial vector, *Anopheles stephensi* (Diptera: Culicidae) 3nd International Congress on Global Warming on Biodiversity of insects: Management and conservation (GW-BIMC, 2013), 26th - 28th November, 2013 at Department of Zoology, Bharathiar University, Coimbatore.

291. P.Aruna, K. Murugan, A. Priya, **G. Durga Devi** and V. Sujitha, 2013. Larvicidal, Pupicidal, and Repellent Activities Of *Agave sisalana* plant extract against the filarial vector, *Culex quinquefasciatus* (Diptera: Culicidae) 3nd International Congress on Global Warming on Biodiversity

of insects: Management and conservation (GW-BIMC, 2013), 26th - 28th November, 2013 at Department of Zoology, Bharathiar University, Coimbatore.

292. **G. Durga Devi,** K. Murugan and C. Panneer selvam,2013. Green synthesis of silver nanoparticles using *Euphorbia hirta* (Malpighiales:Euphorbiaceae) leaf extract against crop pest of cotton bollworm, *Helicoverpa armigera* (Insecta: Lepidoptera: Noctuidae**),** 4th Biopesticide International Conference BIOCICON 2013, November 28-30, 2013 at Crop Protection Research Centre (CPRC), Department of Zoology, St.Xavier's College (Autonomous), Palayamkottai.

293. A.Priya, **G. Durga Devi,** P. Aruna and K. Murugan, 2013. Larvicidal and Pupicidal activity of *Musa paradisiaca* stem extract against the malarial vector, *Anopheles stephensi* (L) (Diptera: Culcidae). 4th Biopesticide International Conference BIOCICON 2013, November 28-30, 2013 at Crop Protection Research Centre (CPRC), Department of Zoology, St.Xavier's College (Autonomous), Palayamkottai.

294. P, Aruna, G. Durga Devi, A. Priya and K. Murugan, 2013. Larvicidal, pupicidal and repellency activities of *Gaultheria* oil against filarial Vector, *Culex quinquefasciatus* (Insecta: Diptera: Culicidae). 4th Biopesticide International Conference BIOCICON 2013, November 28-30, 2013 at Crop Protection Research Centre (CPRC), Department of Zoology, St.Xavier's College (Autonomous), Palayamkottai.

295. **G. Durga Devi,** A. Priya P, Aruna and K. Murugan, 2013. Adulticidal, Ovicidal, Smoke and Repellent activities of *Alocasia macrorrhiza* (L.) Schott (Plantae: Araceae) methanolic leaf extract against the Malarial Vector, *Anopheles stephensi* Liston. (Diptera: Culicidae). International Conference on Green India: Strategic Knowledge for combating climate

change: Prospects & challenges (GISKCCC-2013) December 5th - 7th at Department of Ecology and Environmental Sciences, Pondicherry University. Pondicherry.

296. Priya, **G. Durga Devi,** P. Aruna and K. Murugan, 2013. Mosquito Larvicidal and Pupicidal of *Melia azedarach* L. (Plantae:Meliaceae) methanolic leaf extract against the malarial vector, *Anopheles stephensi* (Diptera: Culicidae), International Conference On Green India: Strategic Knowledge for combating climate change: Prospects & challenges (GISKCCC- 2013) December 5th -7th at Department of Ecology and Environmental Sciences, Pondicherry University. Pondicherry.

297. G. Durga Devi, T. Jeyalalitha, K. Murugan, A.Priya, P.Aruna and V.Sujitha, 2014. Evaluation of Green Synthesized Silver Nanoparticles Using *Anthocepholus cadamba* leaf extract and Its Larvicidal and Pupicidal Activity against the Malarial Vector, *Anopheles stephensi* L. (Diptera: Culicidae), **BEST PAPER PRESENTATION AWARD** "International Conference on Vector Borne diseases- Combat and control" organized by the Post graduate and Research Department of Zoology, 22nd and 23rd January, 2014, Justice Basheer Ahmed Sayeed College for women (Autonomous), Chennai-18.

298. G.Durga Devi and K. Murugan, 2014. Effect of Elevated Carbon Dioxide on the Bioefficacy of *Couroupita guianensis* (Plantae: Lecythidaceae) flower extract against the crop pest, Cotton Bollworm *Helicoverpa armigera* (Hubner) (Insecta: Lepidoptera: Noctuidae), National Conference on "Zoology for future Education and Research" organized by Department of Zoology, Queen Mary's College (Autonomous), Chennai- 4.22nd and 23rd January, 2014.

299. G. Durga Devi, K. Murugan, A. Priya, P.Aruna and V. Sujitha, 2014. Mosquito Larvicidal, Pupicidal, Adulticidal and Repellent Properties of *Couroupita guianensis* (Plantae: Lecythidaceae) Methanolic leaf extract against *Aedes aegypti* And *Anopheles stephensi* (Diptera: Culicidae), **101st Indian Science Congress,** February 3rd -7th, 2014 at University of Jammu, Jammu and The Indian Science Congress, Kolkata.

300. G.Durga Devi, K.Murugan, Chandra Mohan, A. Priya, V. Sujitha and P.Aruna, 2014. Biosynthesis of silver nanoparticles using *Anisomeles malabarica* leaf extract and its larvicidal and pupicidal activity against *Anopheles stephensi,* International Conference on Entomology, February 21st - 23rd, 2014 at Department of Zoology and Environmental Sciences, Punjabi University, Patiala, Punjab, India.

301. G.Durga Devi, and K.Murugan, 2014. Synthesis of plant-mediated silver nanoparticles using *Morinda citrifolia* L. (Family: Rubiaceae) leaf extract against the bioefficacy of larvicidal and pupicidal activity of *Spodoptera litura* (lepidoptera: noctuidae). National Conference onRecent trends In BIOPROSPECTING OF PLANTS, 28th to 29th March 2014. Organized by Department of Plant Science, Bharathidasan University, Tiruchirappalli.

302. Poster Presented In **"Regional Science Congress On Science For Shaping The Future Of India"**, 15th -16th December, 2012. Organized By Indian Science Congress Association, Coimbatore And Kongunadu Arts And Science College (Autonomous) Coimbatore. **G.Durga Devi**, K.Murugan, J.Subramaniam and C. Pannerselvam. Larvicidal and Pupicidal Efficacy of *Couroupita guianensis* leaf extract and bacterial Insecticide, *Bacillus thuringiensis israelensis* against Malarial Vector, *Anophles stephensi* Liston. (Diptera: Culicidae)

303. Poster presented in **"Regional Science congress on Science for shaping the Future of India",** 15th-16th December, 2012. Organized by Indian science Congress Association, Coimbatore and Kongunadu arts and Science College (Autonomous) Coimbatore. M. Roni, K. Murugan, **G. Durga Devi**, S. Christina Mary, S. Sivapriyajothi, N.A.Suganya. Larvicidal and Pupicidal Efficacy of *Nerium oleander* against *Anopheles stephensi.*

304. Presented a Poster in **"International Conference on Advances in Biotechnology and Patenting (ICABP-2013)"**, 18th to 21st February 2013. Organized by School of Biotechnology and School of Chemistry, Bharathidasan University, Tiruchirappalli. J. Subramaniam, K. Murugan, K. Kovendan, P. Mahes Kumar, K. Prasanna kumar and **G. Durga Devi.,** Larvicidal Activity Of Botanical Insecticide And Microbial Insecticide against Dengue Vector, *Aedes aegypti* And Asian Army Worm *Spodoptera litura*.

305. Presented a Poster in **"International Conference on Advances in Biotechnology and Patenting (ICABP-2013)"**, 18th to 21st February 2013. Organized by School of Biotechnology and School of Chemistry, Bharathidasan University, Tiruchirappalli. C. Panneerselvam, K. Murugan, K. Kovendan, P. Mahesh Kumar, D. Amerasan, J. Subramaniam, **G. Durga Devi** and S. Vivek, Anti-Malarial Potential of Neem limonoids against *Plasmodium falciparum.*

The following papers were at - The 12th International Conference on Copepoda July 14th - 18th, 2014; Hanyang Institute of Technology (HIT); Hanyang University; Seoul, Korea.

306. Murugan K, Mahesh kumar P, James Pitchai G, Sivapriyajothi S, J. Subramaniam,Jiang-Shiou Hwang, Durga Devi G, D. Dinesh1, B.

Chandramohan, A. Priya andKalimuthu K (2014) **Predatory efficiency of *Mesocyclops thermocyclopodes,* combined withseaweed mediated silver nano particles using *Codium tomentosum* against dengue vector, *Aedes aegypti.***

307. Kandasamy Kalimuthu,, PalanisamyMahesh Kumar Li-Chun Tseng,Kadarkarai Murugan and Jiang-Shiou Hwang (2014)**The predatory efficiency of copepod *Mesocyclops aspericornis* and toxicity effect of *Madhuca longifolia* cake against dengue vector, *Aedes aegypti.***

308. Murugan K, Mahesh Kumar P, James Pitchai G, Sivapriyajothi S, J. Subramaniam,Jiang-Shiou Hwang, Durga Devi G, D. Dinesh1, B. Chandramohan and Kalimuthu K (2014) **Laboratory and field efficacy of Biosynthesized Silver nanoparticles from*Aloe vera* and predatory copepod, *Mesocyclops aspercornis* for the controlof malarial vector, *Anopheles stephensi.***

309. Chellasamy Panneerselvam, Kadarkarai Murugan, Palanisamy Mahesh Kumar, Gurusamy Durga Devi, Jiang-Shiou Hwang and Kandasamy Kalimuthu (2014) **Mosquito larvicidal activity of *Pteridium aquilinum* and predatory copepod, *Mesocyclops aspericornis* against dengue vector *A. aegypti.***

310. Kandasamy Kalimuthu, Kadarkarai Murugan, Li-Chun Tseng and Jiang-Shiou Hwang **(2014) Mosquitocidal activity of *Hedychium coronarium* rhizome extract andcopepod *Megacyclops formosanus* for the control of dengue vector *Aedes aegypti.***

Papers presented at the International Conference on Multidisciplinary Biology, at National Taiwan Ocean University, Keelung, Taiwan from 14-18, June, 2015.

311. James Pitchai G, Kadarkarai Murugan, Jiang Shiou Hwang (2015) Use of biological insecticides and copepods for the management of dengue vector at the different agro-climatic regions of Tamil Nadu, India.
312. James Pitchai, Kadarkarai Murugan· Jayapal Subramaniam· Jiang-Shiou Hwan*g* (2015) Use of biological insecticides and copepods for the management of dengue vector at the different agro-climatic regions of Tamil Nadu, India.
313. James Pitchai G, Kadarkarai Murugan, Jayapal Subramaniam, Jiang-Shiou Hwang (2015) The combined effect of microbial insecticide, *Spinosad* on the predatory copepods *Mesocyclops aspericornis*, against the dengue and Chikungunya vector, *Aedes albopictus*.
314. Kadarkarai Murugan, Devakumar Dinesh, Jayabal Subramaniam, Pari Madhiyazhagan, Kandasamy Kalimuthu, Jiang-Shiou Hwang (2015) Green-synthesized mosquitocidal nanoparticles and copepods for the control of dengue vector, Aedes aegypti and Aedes albopictus.

Paper presented at the "104th Indian Science Congress (ISCA), Organized by Sri Venkateshwara University, Tirupati during 3rd–7th January, 2017.

315. Kovendan K, Chandramohan B, **Murugan K,** and Vincent S. Characterization of silver nanoparticles fabricated using *Psychotria*

nigiriensis: toxicity effect of *Bacillus sphaericus* on the mosquitocidal potential against dengue, malaria and filarial vectors.

316. Rajaganesh R, **Murugan K,** Suresh U, and Panneerselvam C. Mosquitocidal properties of *Conyza ambigua* extract against the dengue vector, *Aedes aegypti*
317. **Murugan K,** and Amuthavalli P. Larvicidal and pupicidal activity of fabricated mosquitocidal nanoparticles from leaf *Lawsonia inermis* extract against mosquito vector, *Anopheles stephensi*.
318. Subramaniam J, **Murugan K,** Jebanesan A, and Senthamaraiselvan P. Green synthesized silver nanoparticles using *Chenopodium ambrosiodes*: Potential against the dengue vector, *Aedes albopictus* with *Gambusia affinis* predators
319. Jayasanthini S, and **Murugan K.** Mushroom-Bioencapsulated silver nanocrystals: A potent mosquitocidal and antiplasmodial agent

BOARD OF EXAMINERS: (National)

1.	Microbiology, Biochemistry and Physiology	- Bharathidasan University Tiruchirapalli, India.
2.	Animal Physiology, Evolution, and Entomology	- Annamalai University, India.
3.	Entomology and Ecology	- Madurai Kamaraj University Madurai, India.
4.	Biotechnology, Entomology, Immunology and Genetics	- University of Madras, India

5. Insect Pest Management and Sericulture - Tamil Nadu Agriculture University, Coimbatore, India

6. Biotechnology - Periyar University, Salem

EXTERNAL EXAMINER - Vivekananda College of Arts & Science for Women, Elayampalayam,
27-06-2011, 11.00 a.m
Name of the Candidate:
C. Shalini, C. Sathya, P. Jayasri, R. Ambika.

BOARD OF EXAMINERS: (International)

a. Board of Studies members and external examiner Ph.D. student's thesis evaluation at Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan.

b. Board of Studies members and external examiner Ph.D. student's thesis Evaluation at Institute of Zoology, Chinese Academy of Sciences, Beijing, China.

NUMBER OF CSIR FELLOWSHIP RECEIVED BY THE STUDENTS (CSIR-SRF, RA):–

1. Dr. R. Babu - 1997.
2. Dr. N. Senthil Kumar - 1998.
3. Dr. D. Jeybabalan - 1998.
4. Dr. A. Nareshkumar – 2012

UGC-Post Doctoral Fellows

1. **Dr. Ponnan Arumugam - Transgenic plants and Insect control - (2015-2020)**
2. **Dr. Siva Kamalakannan–Fungi as Biological control of mosquito - (2015-2020)**
3. **Dr. Jaganathan Anitha – Bioencapsulation and mosquito control- (2015-2020)**
4. **Dr. M. Palpandi - Nanomaterials and mosquito control - (2015-2020)**
5. **Dr. Ramar Marimuthu – Nano-emulsion and mosquito control - (2015-2020)**

TECHNICAL PAPER HANDLING FOR M.Sc., M.Phil and Ph.D:

M.Sc. (Animal Science): Applied Entomology, Environmental Biology, Sericulture, Biodiversity and Conservation Biotechnology, and Bio-Statistics.

M.Sc. (Animal Biotechnology): Molecular Entomology and Entomo biotechnology.

M.Phil. and Ph.D.: Research Methodology, Recent Trends in Biology, Advances in Insect Biology and Pest Control.

PROJECT EVALUATION COMMITTEE MEMBER:

1. Council of Scientific and Industrial Research (CSIR), New Delhi, India.
2. Central Sericultural Research & Training Institute, Central Silk Board, Ministry of Textiles, Government of India, India.
3. Department of Biotechnology, New Delhi, Govt. of India.
4. Department of Science and Technology, New Delhi.

PAST Ph.D STUDENTS AND THEIR PLACEMENTS:

1. Dr. P. Jahanmohini: 1991- 1995 - Jagan Biopesticides Development Centre, Coimbatore, India.
2. Dr. R. Babu: 1992- 1996 - Scientist, Zoological Survey of India, Kolkatta, India.
3. Dr. P.S. Chitra - 1992 -1996 - Lecturer, Department of Microbiology, NGP College, Coimbatore, India.
4. Dr. D. Jeyabalan - 1994-1998 - Lecturer, Govt. Arts College, Ooty, TN, India.
5. Dr. N. Senthil Kumar - 1994 - 1998 - Reader and Head, Department of Biotechnology, The University of Mizoram, Mizoram, North East India.
6. Dr. S. Senthil Nathan - 1997-2000 - Reader, Department of Environmental Sciences, Manonmaniam Sundaranar University, Tirunelveli, TN, India
7. Dr. S. Sivaramakrishnan - 1998-2001 - Lecturer, Department of Biotechnology, Bharathidasan University, Tiruchirappalli, TN, India.
8. Dr. N. Krishnakumar I.F.S. 1999-2003 - Director, Institute Forest Genetics and Tree Breeding, Govt. of India. Coimbatore, TN, India.
9. Dr. Vahitha R 2000-2004 - Lecturer, Govt. Arts College, Dindigul, TN, India.
10. Dr. Thangamathi P- 2000-2004 - Lecturer, Govt. Arts College, Kumbakonam, TN, India.
11. Dr. Sumathi P - 2000-2004 - Lecturer, Vivekanandha Colelge, Arts College, Tirchengode, TN, India.
12. Dr. Amuthadevi P. 2002-2005 - Zonal Entomologists, Tamil Nadu Public Health and Preventive Medicine, Coimbatore, TN, India.
13. Dr. Umamaheswari 2003-2005 - Scientist, Rasi Seeds, Salem, TN, India.

14. Dr. Noortheen A. 2001-2005 - Lecturer, Vivekanandha Colelge Arts and Sceince College, Tirchengode. Arts College, TN, India.
15. Dr. Murugan P. 2004-2006- Lecturer, Govt. Arts College, Tiruppur, TN, India.
16. Dr. Rajalakshmi L. (2006) - Lecturer, Govt. Arts College, Slaem, TN, India.
17. Dr. Thiygarajan P. 2005-2008 - Guest Lecturer, Bharathiar University, Coimbatore, India.
18. Dr. Vineetha A. 2005-2008 - Lecturer, Chikanna Arts College, Tiruppur, TN, India.
19. Dr. Kuppusamy C. (2009) - Post-doc., Malaria Research Centre, ICMR, New Delhi, India.
20. Dr. Shobana, K. (2010) - Assistant Professor, Department of BioInformatics, GRD. Thomadaran College, Coimbatore, India.
21. Dr. Indumathi K, Associate Professor, Sri Vellallar College, Erode, India.
22. Dr. Chitra, C. Associate Professor, Erode Arts College, Erode, India.
23. Dr. Kanagaraj S. Associate Professor, Kandasamy Kandar College, Paramathivellore, Erode District, Tamil Nadu, India.
24. Jeyalalitha, D. Associate Professor, Palaniandavar Arts and Science for Women, Palani, Tamil Nadu, India.
25. Dr. Vasugi S., Lecturer, Department of zoolgy, Sri Vasavi Arts and Science College, Chitthodu, Erode, Tamil Nadu, India.
26. Dr. Abirami. A. Working as Lectuer at School of Biotechnology, PSR Krishnamal College, Coimbatore, India
27. Dr. Naresh Kumar, Assistant |Professor, Department of Zoology, Periyar University, Salem, India.

28. Dr. S. Kamalakannan, UGC post-doc., - Fungus mediated silver nanoparticle -Bioactivity relationship for Insect System.
29. Dr. K. Kovendan DST-Young Scientist, Department of Zoology, Bharathiar University, Coimbatore-641046.
30. Dr. J. SUBRAMANIAM DST-SERB-NPDF, Department of Zoology, Annamali University, Annamalai Nagar, Cuddalore-608002.

RESEARCH PERSONAL WORKING WITH Dr. K. MURUGAN FOR DIFFERENT PROJECTS.

1. **Dr. A. Naresh kumar**

   Evaluation of Bacterial Larvicides, *Bacillus sphaericus* (DRL, Tezpur, Isolates) for the control of Mosquito vectors. Funded by, Defence Research Laboratory, Defence R&D Organization, Ministry of Defence, Govt. of India.

2. **Mr. P. Mahesh Kumar**

   Integration of Botanicals and Novel Microbial (Spinosad) Insecticides for the Control Mosquito Vectors and for the Development of Eco-Friendly Biopesticides. Funded by University Grants Commission (UGC), New Delhi, India.

3. **Mr. T. Nataraj**

   Integration of Novel Bacterial Insecticide (Spinosad) and Botanicals for the Control of Mosquito Vectors at the Endemic area of Tamil Nadu, India. Funded by Council of Scientific and Industrial Research, New Delhi, India.

4. **Dr. K. Kovendan**

   Integration of Botanical Pesticides and Entomopathogenic Fungi (*Metarizhium anisopliae*) for the Control Mosquito Vector at different Agro-climatic Regions of Tamil Nadu, India. Funded by DST-Tamil Nadu State Council for Science and Technology, Chennai, India.

5. **Dr. N. Aarthi**

The Research Fellowship in Sciences for *meritorious* students (*NON - SAP*) Schemed by University Grant Commission (U G C), Bahadur Shah Zafar Marg, New Delhi - 110 002, India.

6. **Mr. C. Panneerselvam**

Integration of Nanoparticles with Botanicals and Microbial insecticides for the control of malarial vector, *Anopheles stephensi* and malarial parasites. Funded by Defence Research Laboratory, Defence R&D Organization, Ministry of Defence, Govt. of India.

7. **Mr. P. Madhiyazhagan**

The *Research Fellowship* in Sciences for *meritorious* students (*RFSMS*) Schemed by University Grant Commission (U G C), Bahadur Shah Zafar Marg, New Delhi - 110 002, India.

8. **Dr. P. THIYAGARAJAN**

The malarial disease control: An Ecofriendly approach. Post-doctoral fellow, Funded by Funded by University Grants Commission (UGC), New Delhi, Government of India.

9. **Mr. D. AMARESAN**

Development of navel Neem formulation for the control of Apple codling mouth, *Cydia pomonella*. Funded by Defense Research and Development Organization (DRDO), Defense Institute of High Altitude Research (DIHAR)., Ley, North Eastern India,

10. **L:hN. Arul. Ph.D., Graduate Student**

Dept of biochemistry, school of dentistry, kyungpook national university, rm 211,101 dongin dong 2ga, daegu, 700-422, south korea

11. **Perumalsamy Haribalan, Ph.D. Student**

Bioactive Natural Products Lab, (Lab No. 6110), Department of Agricultural Biotechnology, College of Agriculture and Life Sciences,
Seoul National University, Seoul, 151-741, Republic of Korea.

12. **Dr. K. Prasannakumar Ph.D., Student**

Working as Lecturer at the Department of Zoology, Ayyanadar Janaki Ammal College, Sivakasi, Tamil Nadu, India.

Scientist from Abroad visited to Division of Entomology, Dept. of Zoology, and Bharathiar University.

Dr. Inoue A. Takashi

National Insitute of Agrobiology, Tsukuba, Japan – Butterfly Sciences.

Dr. Jiang-Shiou Hwang, Ph. D. (Copepod and Mosquito Control) Professor, Institute of Marine Biology, National Taiwan Ocean University Taiwan,.

Dr. Trumble. John, T, Professor of Entomology, University of California, Riverside, USA.,

Dr. Megha N. Parajulee, Professor of Cotton Entomology, Texas AgriLife Research, USA.

Dr. David Raubenheimer Professor of Nutritional Ecology, Massey University, Auckland, New Zealand

Dr. Donald R. Barnard, Ph.D. Research Entomologist, USDA-ARS-CMAVE, Gainesville, FL 32608, USA

Dr. Prof. T. Nakamura

Molecular Biology and Immunology (CAMBI) at SUNY, Buffalo, USA.

Dr. ProfessorYoung-Joon Ahn,

School of Agricultural Biotechnology, Seoul National University, Seoul, South Korea

Dr. Professor Wen-Qing Zhang

State Key Laboratory of Biocontrol, Sun Yat-Sen University, Guangzhou, China

Dr. Tenji Konishi

Department of Pharmaceutical Sciences, Doshisha Women's College of Liberal Arts, Kyoto, Japan

Dr. Shigeo Kondo Aichi Medical University, School of Medicine, Nagakute, Japan.

P.D. Dr. Martin Von Bergen Head of Department of Proteomics, Helmholtz Centre for Environmental Research – UFZ, Germany.

Dr. Geoff Folkard, Department of Engineering, University of Leicester, United Kingdom

Dr. Uchiyama Nahaoko

National Institute of Health Sciences, Kamiyoga 1-18-1, Setagaya-ku,, Japan.

Dr. Anne Walter,

Biology Department, St. Olaf College, Minnesota, USA.

Dr. Michael C. Swift

Biology Department, St. Olaf College, Minnesota, USA.

Dr. Perin (Mehru) Fitter (MAMA NEEM)

Neem Foundations, Nairobi, Kenya

Dr. Annette Habluetzel, University of Camerino. Italy.

Dr. Chi Wei-Tsai, Professor, Department of Entomology, National Taiwan University, Coimbatore-641 046, India.

Dr. Herb Nyberg, New Mountain Innovations, Old Lyme, CT 06371, **USA.**

Dr. Henning Hansen, International Federatin of Environmental Health, Denmark.

Prof. Akon Higuchi, Department of Chemical & Materials, National Central University, Taiwan.

Prof. Peter Davey, Env Protection - Griffiths School of Environment (ENV), Brisbane, Australia.

Professor K G Moodley, Director of Research in the Department of Chemistry at the Durban University of Technology, South Africa.

SELECTION COMMITTEE MEMBER FOR THE RECRUITING COLLEGE AND UNIVERSITY TEACHERS AND ADMINISTRATIVE POSTS:

- Selection committee member for the Lecturer at the Erode Arts and Science College, Erode-2007
- Selection committee member for the Lecturer at the C.N College, Erode-2008
- Selection committee member for the the selection of Controller of Examinations at the Bharathiar University on 12-4-2010.
- Selection Committee Member for the selection of Guest Faculty at the Department of
- Zoology, Bharathiar University on 07-08-2010.
- Scrutiny Committee Member to Recruitment of Teaching Faculty at Thiruvalluvar
- University, Serkkadu, Vellore-632 115 on 9-1.2012
- Scrutiny Committee Member to Recruitment of Teaching Faculty at Central University of
- Tamil Nadu, Thiruvarur, Thiruvarur – 610 004, on 10-1.2012
- Selection Committee Member for the Recruitment of Faculty Position at the Department of
- Womens Studies, Bharathiar University, Coimbatore, India at Fore Noon on 26-3-2013.
- Selection Committee Member for Non-Teaching Staff Selection at the Department of
- Womens Studies, Bharathiar University, Coimbatore, India on at After Noon on 26-3-2013.

INTERNATIONAL COLLABORATIONS

I. Post-doc. Research (1996-1997 for one year):

Synergistic effect of neem limonoids, and botanicals on the feeding, growth and reproduction of *Spodoptera litura* Fab. (Insecta: Noctuidae: Lepidoptera).

Host Professor: Dr. HATTORI, Makoto:
Chief, Laboratory of Insect-Plant Interactions,
Department of Insect Genetics and Evolution
National Institute of Agrobiological Sciences,
Ohwashi 1-2, Tsukuba,
Ibaraki, 305-8634 Japan,
E-mail: hatto@affrc.go.jp

II- Post-doc.Research (2000-2001 for one year):

Impact of transgenic plant (*Arabidopsis* spp.) on the feeding strategies on *Locusta migratoria* (ii) Impact of nutrient and allelochemicals (Gramine) interaction on Locust.

Host Professors:

1. **Professor Dr. DAVID RAUBENHEIMER**
   Physiological Ecology Group, Department of Zoology,
   The University of Oxford, UK.
   Present Address:
   Associate Professor Nutritional Ecology
   Liggins Institute & School of Biological Sciences
   2-6 Park Avenue, University of Auckland,
   Private Bag 92019, Auckland Mail Centre, New Zealand.
   Tel. +64 9 3737599 ext 87155, Fax. +64 9 4866231
   e.mail:d.raubenheimer@auckland.ac.nz

2. **Professor Dr. S.J. SIMPSON,**
   ARC Laureate Fellow
   School of Biological Sciences,
   The University of Sydney,
   New South Wales 2006,
   Australia
3. **Dr. Spencer T. Behmer**
   Associate Professor
   Department of Entomology,
   IRP in Ecology and Evolutionary Biology & Institute of Neuroscience
   Minnie Belle Heep Building, Rm 509
   Texas A&M University College Station, TX 77843-2475
   Phone: +001 (979) 845-3411
   Fax: +001 (979) 845-6305, E-mail: s-behmer@tamu.edu

III - Chemical Ecology and Plant Selection of Butterflies.

Host Professor:

Professor Dr. ANDREAS ERHARDT,
Department of Integrative Biology,
Section of Conservation. Biology,
University of Basel,
St Johanns-Vorstadt 10, 4056,
Basel, Switzerland.

IV- Post-doc. Research (2004):

Botanical control of stored products pests.

Host Professor:

Professor Dr. SHWU-BIN HORNG
Department & Graduate Institute of Entomology,
National Taiwan University, 27,
Lane 113, Sec. 4, Roosevelt Rd.,
Taipei, Taiwan 106.

V- Post-doc.Research (2005):

Impact of NPV and neem on the growth, feeding physiology and chitine synthase Enzyme activities in *Spodoptera litura* Fab.

Host Professor:

PROFESSOR DR. WENQING ZHANG
Professor/Deputy Director,
State Key Lab. of Biocontrol,
Sun Yat-sen University Guangzhou,
510275, China
Email: Lsszwq@mail.sysu.edu.cn, wenqingzhang818@yahoo.com.cn

VI- Post-doc.Research (2007)

Impact of Elevated CO2 on Insect Plant Interacations (cotton ecosystem).

Host Professor:

Professor Dr. FENG GE
Group of Population Ecology for Global Change
State Key Laboratory of Integrated Management of Pest Insects and Rodents
Institute of Zoology,
Chinese Academy of Sciences
Datun Road, Chayang,
Beijing, 100101, China.

INSECT PATHOGEN AND MOSQUITO INTERACTIONS:

Dr. James J. Becnel
Lead Scientist and Research Entomologist,
USDA, ARS, Gainesville, FL, USA.
Telephone: (352)374-5961
Fax: (352)374-5922
Email: james.becnel@ars.usda.gov
http://www.ars.usda.gov/saa/cmave/mfru/jbecnel

MOSQUITO REPELLENT RESEARCH

Dr. Donald R. Barnard, Ph.D.
Research Entomologist
USDA-ARS-CMAVE
1600 SW 23rd Drive
Gainesville, FL 32608
USA
(352) 374-5930 (tel)
(352) 374-5870 (fax)
don.barnard@ars.usda.gov
http://www.ars.usda.gov/saa/cmave/mfru/dbarnard

Dr. ULRICH R BERNIER (Uli)
Mosquito and Fly Research Unit
Research Chemist
Uli.Bernier@ars.usda.gov
Phone: (352) 374-5917
Fax: (352) 374-5922
1600-1700 SW 23RD DRIVE
GAINESVILLE, FL, 32608http://www.ars.usda.gov/saa/cmave/mfru/dbarnard

ONGOING COLLABORATION WITH ABROAD UNIVERSITIES:

1. Insect Pests on Wild Legumes and Stored Product Insects

Dr. Midori TUDA
Institute of Biological Control
Faculty of Agriculture, Kyushu University
Fukuoka 812-8581, Japan
E-mail: tuda@grt.kyushu-u.ac.jp
http://www.agr.kyushu-u.ac.jp/bio/mamezo.html

2. Natural product-based toxicants for mosquito vector control: discovery, development, efficacy, and application.

Dr. Donald R. Barnard, Ph.D.
Research Entomologist
USDA-ARS-CMAVE, 1600 SW 23rd Drive
Gainesville, FL 32608
USA don.barnard@ars.usda.gov
http://www.ars.usda.gov/saa/cmave/mfru/dbarnard

Prof. Dr. Rudy Xue, Ph.D.
Director
Anastasia Mosquito Control District,
500 Old Beach Road, St Augustine, FL, USA.
E.mail: xueamcd@yahoo.com

3. Copepod predation on Mosquito larvae - Integration of Biopesticides and copepods for the mosquito control

Dr. Jiang-Shiou Hwang, Ph. D.
Co-guest-editors, proceedings of 8th ICOC (Zoological Studies, 2004)
Co-guest-editors, proceedings of 9th ICOC (Journal of Plankton Research, 2007)
Co-guest-editors, proceedings of 10th ICOC (Hydrobiologia, 2010)
Executive Council Member of World Association of Copepodologists
(2002-2005; 2005-2008)
Professor of Institute of Marine Biology
National Taiwan Ocean University
Keelung, Taiwan, 202
e-mail:Jshwang@mail.ntou.edu.tw

4. <u>Antiplasmodial effect of Plant Compounds.</u>

Prof. Dr. Kevin S. W. Tan BSc (Hons), PhD, CBiol, MIBiol
Assistant Professor, Laboratory of Molecular and Cellular Parasitology
Director, National Malaria Reference Centre
NUS Graduate School for Integrative Sciences and Engineering
Tel: +65 6516 6780, Singapore National University, Singapore.
Email: mictank@nus.edu.sg

5. **Host plant selection of papilionidae from Western Ghats, Southern India and Japan. Comparative aspects of host plant selection of papilionidae from India and Japan.**

a) **Dr Keiichi Honda**, Professor
Division of Environmental ... Arts and Sciences,
Hiroshima University, Higashihiroshima 739-8521, Japan.

b) **Dr. INOUE A TAKASHI**
National Institue of Agrobiological Sceinces
2-1-2 Kan-nondai, Tsukuba, Ibaraki, 305-8602, Japan
Tel: +81-29-838-7406, fax: +81-29-838-740
E-mail: www@nias.affrc.go.jp

6. <u>Cotton Insects and Resistance Programme.</u>

Dr. Megha N. Parajulee
E.mail: megha.parajulee@ttu.edu
Professor of Cotton Entomology with joint appointment with Texas AgriLife Research Texas AgriLife Research 1102 E. FM 1294
Lubbock, TX 79403-9803, USA.
Phone: (806) 746-6101
FAX (806) 746-6528

7. <u>Neem and Finger Printing Technology and Insect Control Strategy</u>

Prof. Dr. Marcello Nicoletti,
Ph.D., Professor,
Pharmaceutical Plant Biology,
La Sapienza University, Italy.

Prof. Giovanni Benelli, Ph.D.
Research Entomologist and Academic Editor,
University of Pisa, Department of Agriculture,
Food and Environment, via del Borghetto 80, 56124 Pisa, Italy.
Tel.: +39-0502216141;
Fax: +39-0502216087
E; -mail: benelli.giovanni@gmail.com

8. **Stem Biology**

Professor Akon Higuchi
Chair (Distinguished) Prof. of National Central University
Department of Chemical & Materials Engineering
National Central University
No. 300 Jung da Rd., Chung-Li, Taoyuan 320, Taiwan, R.O.C.
Fellow, Royal Society of Chemistry (England)
E-mail: higuchi@ncu.edu.tw, akon.higuchi@gmail.com
Home page: http://140.115.55.14/joomla150/
Tel: +886-3-4227151 ext 34257
FAX: +886-3-2804271

Insect Culture Techniques:

Grasshoppers: ***Gesonula punctifrons*** (Water hyacinth grasshopper), feeds on Eichhornia crassipes and unlike other grasshoppers, it lays its eggs in the petiole of the stem of the water hyacinth. It is weed control agent. 2. *Atractomorpha crenultata:* It feeds on Castor (*Ricinus communis*). 3. *Oxya nitidula* (Rice Pest), *Cyrtacanthacris ranacea* (cotton pest) and *Poecilocerus pictus* (Painted grasshopper), it feeds on toxic plant, milkweed, *Calotropis gigantea.* ***Locusta migratoria migratoriodes*** (Lmm) and *Schistocerca gregaria* (Sg), it feeds on wheat plant and culture technique learned at Department of Zoology, University of Oxford, UK.

Lepidopteran Insect Pests: *Helicoverpa armigera* (cotton bollworm), *Spodoptera litura* and *Plutella xylostella.* Ecto-and endoparasitoids of above insects. *Aphis gossypii* (Cotton aphids) and *Aphis nerii* (Calotropis aphids) and its predator interactions (coccinellid beetles.), and *Hyableae puera (Teak defoliator).*

Butterfly species: Papilionidae, Pachliopta aristolochiae, Pachliopta hector, Graphium sarpedon, Graphium Agamemnon, Papilio demoleus, Papilio polytes, **Danaidae:** Danaus chrysippus and Euploea core and from **Pieridae:** Catopsilia pyranthe and *Catopsilia florella.*

Mosquito vectors: Anopheles stephensi, (malarial vector), Aedes aegypti (dengue vector) and Culex quinquefasciatus (filarial vector).

Stored Product Pests: Bruchid beetle: *Callosobruchus maculates and termites.*

Nanomaterial Research: Biosynthesis of nanomaterials (plant and microbes) and synthetic nanomaterials. Application for the insect pest management, anticancer, antimalarial antibacterial activities.

Stem cell Biology: Culture of stem cells on biomaterials under xeno-free conditions and Pluripotent stem cell culture for clinical application

Entomopathogenic nematodes

Techniques Known:

1. Life history parameters of insects, Quantitative food utilization by gravimetric methods, life table analysis, toxicity bio-assay techniques, feeding deterrent, anti-oviposinal studies and repellent bioassay
2. Phytochemical extractions of plant compounds and Nanoparticle extractions etc.,
3. ArcGis 9.3.

Various Committees Established in Thiruvalluvar University during My Tenure (Feb, 2016 till date

COMMITTEES CONSTITUTED :

1. Special Syndicate sub-Committee (to deal with the confidential matters of this University) w.e.f. 20.03.2017

2. Internal Complaints Committee (Reconstituted) w.e.f. 22.03.2017

3. Anti Ragging Committee (w.e.f. 20.12.2017)

4. Anti Ragging Squad (w.e.f. 20.12.2017)

5. Monitoring Cell of Ragging (w.e.f. 20.12.2017)

6. Syndicate Sub Committee (to discuss about the University examination related issues)

7. SC/ST Employees Grievance Redressal Cell (w.e.f. 06.12.2017)

8. Placement Cell (w.e.f. 22.06.2017)

9. Entrepreneurship Development (EDC) & Intellectual Property Rights Cell (w.e.f.27.06.2018)

10. Cultural Club (w.e.f. 12.09.2017)

11. International Relations Cell (IRC) (w.e.f. 12.09.2017)

12. Alumni Association (w.e.f. 12.09.2017)

13. Thiruvalluvar University Science Forum (TUSF) (w.e.f. 03.11.2017)

Website informations of Dr. K. MURUGAN

The Hindu : Managing cotton bollworm menace
https://www.thehindu.com/thehindu/2000/01/27/stories/08270009.htm Jan 27, 2000 - Chemical **pesticides** are not always effectve and improper use has ... The use of botanical **pesticides** for protecting **crops** from **insect** pest ... Neem affects all the larval stages**controls** the more resistant pupal stage. ... **K.Murugan**,D.Jeyabalan. & N.Senthil Kumar. Department of Zoology. **Bharathiar University**.

The Hindu : Oh butterfly! Saturday, Dec 06, 2003
https://www.thehindu.com/thehindu/yw/2003/12/06/stories/2003120600830300.ht Dec 6, 2003 - Preserving host plants is crucial in the effort to conserve **butterflies**. ... **K Murugan**, senior lecturer, **Department of Zoology**, **Bharathiar University**, has found that there has been a sharp decline in their population. "due to the ...

The Hindu : Garden for butterflies
https://www.thehindu.com/lf/2004/02/29/stories/2004022900340200.htm Feb 29, 2004 - A group of research scholars led by K. Murugan**, senior lecturer,** Department of Zoology**,** Bharathiar University**, proposes to set up a butterfly ...**

2006 / 072 - isdehs www.isdehs.com/html/2006___072.html
Dr. K. Murugan. Department of Zoology, **Bharathiar University**, India ... there is an urgent need for developing **biological pesticides** from the plants, microbes and ...

On mosquito control and awareness - TAMIL NADU - The Hindu
https://www.thehindu.com › Today's Paper › NATIONAL › TAMIL NAD Nov 2, 2007 - ... G. Thiruvasagam, Vice-Chancellor, **Bharathiar University**, said here on Tuesday. ... "It is the responsibility of the university and its departments to conduct research ... **K. Murugan**, Reader, **Department of Zoology**, said that the effects of ... their speedy action and long-term residual activity," **Dr**. Murugan said.

National Conference on Impact of Climate Change on Biodiversity of ...
https://www.researchgate.net/.../231612514_National_Conference_on_Impact_of_Clima...

PDF | On Jul 1, **2010**, K Murugan and others published **National Conference on Impact of Climate Change on Biodiversity of Insects and Environment (CBI'** ...by K Murugan - 2010 **world**; we also realize that 80% of the in- sects are ... **Department of Zoology**, **Bharathiar Uni**- versity ... **K Murugan** ... vation of **butterflies** at the Western Ghats.

The Sixth International Workshop on ...
https://books.google.co.in/books?isbn=9290581905

R. Srinivasan, Anthony M. Shelton, Hilda L. Collins - 2011

diamondback. moth,. Plutella. xylostella. **Murugan**, **K**. DEPARTMENT OF ZOOLOGY, **BHARATHIAR UNIVERSITY**, COIMBATORE-641 046, TAMIL NADU, INDIA ...

Untitled - International Federation of Environmental Health
www.ifeh.org/docs/events/GW-BIMC%202011.pdf **Dr. K. MURUGAN**. Professor/Organizing Secretary, GW-BIMC,'11. **Department of Zoology**, School of Life Sciences,. **Bharathiar University**, Coimbatore-641 046, ...

Coimbatore university comes up with a herbal-based mosquito coil ...
https://timesofindia.indiatimes.com/city/...university...a...mosquito.../16597036.cms Sep 29, 2012 - COIMBATORE: There is good **news** for those of us who continue to endure ... The**zoology department** of **Bharathiar University** has come up with a ... **K Murugan**, a professor in the**department** who steered the research, said ...

3rd INTERNATIONAL CONGRESS ON GLOBAL WARMING ON ...
https://www.myklassroom.com/.../3rd-INTERNATIONAL-CONGRESS-ON-GLOBAL...**Global Warming** is a global phenomenon with a number of effects on the global level. ... equipped with the necessary skills to understand and **manage biodiversity** of **insects**, ... double line spacing and sent to the **Organizing Secretary** of the **Congress**. ... Dr. K. **MURUGAN** ... **Bharathiar University**, Coimbatore-641 046, India.

4th INTERNATIONAL CONGRESS OF GLOBAL WARMING ON ...
https://www.mypadnow.com/gwbimc2015GWBIMC2015 **Organizing** Committee ... **Global Warming** is a global phenomenon with a number of effects on the global level. ... important that the world has professionals equipped with the necessary skills to understand and **manage biodiversity** of **insects**, ... Dr. K. **Murugan**. **Organizing Secretary**... **Bharathiar University** ..

'Butterfly-friendly plants are on the wane' - The Hindu
https://www.thehindu.com › News › Cities › Tiruchirapalli Feb 26, 2016 - V. M. Muthukumar, Vice-Chancellor, **Bharathidasan University**, ... **K**. **Murugan**, Vice-Chancellor of Thiruvalluvar University, spoke on the role of ...

Web results for Tsunami Rehabilitation Work – 2004-2005 Biopesticide Spray Operations for the control of mosquito at Tsunami affected areas, India.

Web results

1. "Tsunami Relief Work - Biopesticide Spray Operations - A Case Study ...
dc.engconfintl.org › PROCEEDINGS › GEOHAZARDS › 39

by K Murugan - 2006 - Cited by 4 - Related articles

Tsunami occurred on 26th December, 2004 and in India more than 8000 people were killed due to the massive attack. The worst affected districts in Tamil Nadu ...

You've visited this page many times. Last visit: 17/5/18

2. [PDF]Tsunami Relief Work - Biopesticide Spray Operations - A Case Study
dc.engconfintl.org/cgi/viewcontent.cgi?article=1019&context=geohazards

by K Murugan - 2006 - Cited by 4 - Related articles

Dec 26, 2004 - as we had ***biopesticides*** in our hand which stimulated us to proceed to Tsunami affected areas of. Tamil Nadu for the ***spray operations*** to ...

3. BIOLOGICAL PERSPECTIVE OF TSUNAMI: A RELIEF STRATEGY ...
https://www.worldscientific.com/doi/abs/10.1142/9789812701602_0073

by K MURUGAN - 2005

Abstract: ***Biopesticides spray operations*** have been done at the Tsunami affected areas of Tamil Nadu and Pondicherry for the control of mosquito vectors and ...

Geotechnical Engineering For Disaster Mitigation And Rehabilitation ...
https://books.google.co.in/books?isbn=9814479497

Chu Jian, Phoon Kok Kwang, Yong Kwet Yew - 2005

... Biopesticide Spray Operation for the Mosquitoes, Flies and Disease Control at the **Tsunami** Affected Areas of Tamil Nadu and Pondicherry, India **K. Murugan**, ...

Web results for Crab Shell Chitosan for mosquito Control Research

Fabrication of nano-mosquitocides using chitosan from crab shells ...
https://www.ncbi.nlm.nih.gov/pubmed/27344400

1. Crab shells mix found lethal against mosquitoes - SciDev.Net South ...
https://www.scidev.net/.../crab-shells-mix-spray-lethal-against-mosquitoes-malaria.htm...

Jun 7, 2017 - [MANILA] A spray consisting of a mix of chitosan, **extracted** from crushed **crab shells**, and silver nanoparticles can reduce **mosquito** populations ...
You've visited this page many times. Last visit: 9/9/18

1. **Can crab shells provide a "green" solution to malaria? - Springer**
https://www.springer.com/gp/about-springer/.../all...crab-shells...-/12279208

May 11, 2017 - A non-**toxic** mixture of chitin-rich **crab shell** powder and nanosized ... **Mosquitoes** carry diseases such as malaria, dengue fever, yellow ... vent **crabs** (*Xenograpsus testudinatus*) before **extracting** the chitin and other minerals.
You've visited this page many times. Last visit: 9/9/18

2. **(PDF) Fabrication of nano-mosquitocides using chitosan from crab ...**
https://www.researchgate.net/.../304245740_Fabrication_of_nano-mosquitocides_usin...

Jul 31, 2018 - Fabrication of nano-**mosquitocides** using chitosan from **crab shells**: Impact on ... Introduction. Arthropods are dangerous vectors of **deadly** diseases, which ..... produced using the aqueous leaf **extract** of *Nerium oleander* ex-.
You've visited this page many times. Last visit: 9/9/18

3. **Crab Shell Substance May Fight Malaria - Research & Development**
https://www.rdmag.com/article/2017/05/crab-shell-substance-may-fight-malaria

May 11, 2017 - A combination of **crab shell** powder and nanosized silver particles may be the newest ... University believe this non-**toxic** mixture could both be environmentally friendly and curb the spread of disease-carrying **mosquitoes**. ... of hydrothermal vent **crabs**—*Xenograpsus testudinatus*—the researchers **extracted** ...
You've visited this page many times. Last visit: 4/8/18

4. **Fabrication of nano-mosquitocides using chitosan from crab shells ...**
https://www.ncbi.nlm.nih.gov/pubmed/27344400

by K Murugan - 2016 - Cited by 5 - Related articles
Jun 24, 2016 - Fabrication of nano-**mosquitocides** using chitosan from **crab shells**: Impact on non-target organisms in the aquatic environment. Murugan K(1) ...
Missing: ~~extract~~ ~~lethal~~
You've visited this page 4 times. Last visit: 5/8/18

5. Crab shells could help fight malaria - New Atlas
https://newatlas.com/chitin-mosquitoes/49507/

May 12, 2017 - **Mosquito** larvae are reportedly no match for chitin/silver ... the **shells** of hydrothermal vent **crabs**, and then **extracting** chitin and other minerals from them. ... feed on **mosquito** larvae – it was found to have no **harmful** effect.

6. Crab shell, green solution to malaria, heart attacks? - Nigerian Tribune
https://www.tribuneonlineng.com › Natural Health

May 18, 2017 - Spray made from **crab shells** and silver nanoparticles may curb the spread of malaria-carrying **mosquitoes**, ... In its preparation, the researchers took chitosan or chitin, a non-**toxic** ... Researchers first crushed and oven-dried the exoskeletons of a number of **crabs** before **extracting** chitin and other min**erals.**

7. Malaria can be prevented with crab shell mixture: study
https://www.deccanchronicle.com/.../malaria-can-be-prevented-with-crab-shell-mixtur...

May 14, 2017 - **Mosquitoes** carry diseases such as malaria, dengue fever, yellow fever, ... that a non-**toxic** mixture of chitin-rich **crab shell** powder and nanosized ... were crushed and oven-dried before **extracting** the chitin and other minerals.
You've visited this page 4 times. Last visit: 2/8/18

8. Crab shell spray may help prevent malaria | Taiwan News
https://www.taiwannews.com.tw/en/news/3223672

Aug 2, 2017 - Scientists from Taiwan and India have made spray from **crab shells** to curb spread of malaria-carrying **mosquitoes**. ... Researchers took chitosan or chitin, a non-**toxic** natural substance, found ... Researchers first crushed and oven-dried the exoskeletons of a number **crabs** before **extracting** chitin and other ...

9. Crab shell spray may help prevent malaria - The Financial Express
https://www.financialexpress.com › Lifestyle › Health

May 15, 2017 - A spray made from **crab shells** and silver nanoparticles may curb the spread of malaria-carrying **mosquitoes**, say ... took chitosan or chitin, a non-**toxic** natural substance that has been ... Researchers first crushed and oven-dried the exoskeletons of a number **crabs** before **extracting** chitin and other minerals.

You've visited this page 2 times. Last visit: 4/8/18

10. Can crab shells provide a 'green' solution to malaria? Study shows ...
https://www.ghdonline.org/malaria/.../can-crab-shells-provide-a-green-solution-to-mal...

May 23, 2017 - 12 posts - 9 authors
"A non-**toxic** mixture of chitin-rich **crab shell** powder and nanosized ... spread of disease-carrying **mosquitoes**, and malaria in particular" ... vent **crabs** (*Xenograpsus testudinatus*) before **extracting** the chitin and other minerals.
You've visited this page 2 times. Last visit: 4/8/18

11. Researchers use crab shells and silver to halt malaria | The Petri Dish
https://thepetridish.my/2017/07/.../researchers-use-crab-shells-and-silver-to-halt-malari...

Jul 19, 2017 - Researchers use ***crab shells*** and silver to halt malaria ... chitosan to kill the malaria-causing ***mosquito*** Anopheles sundaicus. ... Genetic engineering promises cornucopia of future products—but biotechnology critics take ***lethal*** ...

12. Crab shell spray may help prevent malaria | Free Press Journal
www.freepressjournal.in/webspecial/crab-shell-spray-may-help-prevent.../1068346

May 15, 2017 - A spray made from ***crab shells*** and silver nanoparticles may curb the spread of malaria-carrying ***mosquitoes***.

Missing: ~~lethal~~ | Must include: lethal

You've visited this page 5 times. Last visit: 4/8/18

13. Crab shell will save from malaria - शोध: केकड़े के ... - Hindustan
https://www.livehindustan.com › हेल्थ

Translate this page

May 15, 2017 - केकड़े की खोल मलेरिया के वाहक मच्छरों का प्रसार रोकने में कारगर हो सकती है। यह दावा किया है उन***Crab shell*** ...

14. Images for crab shell extract lethal to mosquito
More images for crab shell extract lethal to mosquitoReport images

by KMJAU Suresh - Cited by 5 - Related articles
Apr 10, 2017 - using male **crab shells** as a source of chitosan, which ... causal connection of **mosquito** vectors and the trans- ..... Table 1 Larval and pupal **toxicity** of the **crab shell**-borne chitosan **extract** against young instars of the coastal ...
You've visited this page 3 times. Last visit: 16/7/18

15. Crab shells an eco-friendly way to ward off spread of malaria, say ...
zeenews.india.com › Health

May 16, 2017 - **Mosquitoes** carry diseases such as malaria, dengue fever, yellow fever ... have discovered that a non-**toxic** mixture of chitin-rich **crab shell** powder ... were crushed and oven-dried before **extracting** the chitin and other minerals.
You've visited this page 2 times. Last visit: 4/8/18

16. Living on Earth: Science Note: Crab Shells Fight Malaria
www.loe.org/shows/segments.html?programID=17-P13-00024&segmentID=4

Jun 16, 2017 - The researchers crushed oven-dried **crab shells** to **extract** chitin, a natural non-**toxic** substance also found in birds' beaks and **insect** ...
You've visited this page 2 times. Last visit: 4/8/18

17. Crab shell powder offers novel malaria control method - Nature India
https://www.natureasia.com/en/nindia/article/10.1038/nindia.2017.59

May 26, 2017 - Scientists have developed a non-**toxic** mixture of crushed **crab shells** and ... that can kill larvae and pupa of malaria-spreading **mosquitoes**.
Missing: ~~extract~~ | Must include: extract
You've visited this page 3 times. Last visit: 9/9/18

Web results

1. Cigarette butts can be used to eliminate malaria causing mosquitoes ...
   www.newindianexpress.com/.../cigarette-butts-can-be-used-to-eliminate-malaria-causi...

Sep 22, 2017 - **Cigarette butts** thrown into garbage as trash can be turned into a valuable ... This novel method for **pest control** -- using CBs for the synthesis of silver ... latest issue of the journal **Environmental** Science and **Pollution Research**.
You've visited this page 3 times. Last visit: 30/7/182.

2. **Cigarette butts to eliminate mosquitoes? - Healthpost.in**

www.healthpost.in/news/Cigarette-butts-to-eliminate-mosquitoes--522

Sep 22, 2017 - This novel method for **pest control** has been reported by the ... in the latest issue of the journal **Environmental** Science and **Pollution Research**.

3. **Cigarette butts to eliminate mosquitoes? - The Economic Times**

https://economictimes.indiatimes.com › News › Science

Sep 22, 2017 - Bengaluru, Sep 22 (IANS) **Cigarette butts** (CBs) thrown into garbage as trash can be turned ... This novel method for **pest control** -- using CBs for the synthesis of silver ... **environmental** science and **pollution research** besides.
You've visited this page many times. Last visit: 16/7/18

4. **Managing wastes as green resources: cigarette butt-synthesized ...**

https://europepmc.org/abstract/med/28913784

by K Murugan - 2018 - Related articles
Abstract: The development of novel **mosquito control** tools is a key prerequisite to ... **Environmental** Science and **Pollution Research** International [14 Sep 2017, ...

5. [PDF]**Full Length Research Paper Cigarette Butt Waste and Its Effective ...**

www.ijsrpub.com/uploads/papers/IJSRES/2015/jan/IJSRES-14-88.pdf

International Journal of Scientific **Research** in Environmental Sciences, 3(1), pp. ... the **control** of **mosquito** larval **control** using **cigarette butts**. ..... Currently his is working on Indoor **Air pollution** from solid biomass smoke and associated.

6. **Cigarette Butts May Help Eliminate Mosquitoes: Try These Natural ...**

https://www.ndtv.com › Food

Sep 22, 2017 - Published in the journal **Environmental** Science and **Pollution Research**, this new **study** claims that **cigarette butts** can be used for **pest control**.
You've visited this page 2 times. Last visit: 8/1/18

7. Cigarette butts to eliminate mosquitoes? | Business Standard News
https://www.business-standard.com/.../cigarette-butts-to-eliminate-mosquitoes-117092...

Sep 22, 2017 - **Cigarette butts** (CBs) thrown into garbage as trash can be turned into a ... latest issue of the journal **Environmental** Science and **Pollution Research**. ... of the **Vector Control Research** Centre in Pondicherry, said that nicotine is ...

ADDITIONAL DEGREE COURSES STARTED IN THE UNIVERSITY CONSTITUENT COLLEGES

S.No.	Name of the College	Details of New Courses for the academic year 2016-17	Details of New Courses for the academic year 2017-18
1.	Thiruvalluvar University Constituent College of Arts and Science Senthamangalam to Nemili Road (near Sayanapuram) Attupakkam, Arakkonam-631 051	B.A. Tamil, B.Sc. Zoology, M.A. English, M.Com., M.Sc. Mathematics	B.B.A., M.A. Tamil and M.Sc. Computer Science
2.	Thiruvalluvar University Constituent College of Arts and Science Kajalnaickenpatti, Tirupattur-635 901 Vellore District	B.A. Tamil, M.A. English, M.Com.	B.Com. (Computer Application), B.Sc. Physics, M.Sc. Mathematics and M.Sc. Computer Science
3.	Thiruvalluvar University Constituent College of Arts and Science Thennangur Village, Vandavasi Taluk Tiruvannamalai District-604	B.A. Tamil, M.Com.	B.Sc. Biochemistry, B.Sc. Zoology and M.Sc. Mathematics

	408		
4.	Thiruvalluvar University Constituent College of Arts and Science Thiruvannainallur, Thirukoilur Taluk Villupuram District-607 203	B.Sc. Zoology, M.A. English, M.Com.	B.A. TAMIL, B.SC. BOTANY, B.SC. CHEMISTRY, M.SC. MATHEMATICS, M.Sc. Computer Science
5.	Thiruvalluvar University Constituent College of Arts and Science Siruvangur, Kallakurichi-606 202 Villupuram District	B.A. Tamil, M.A. English, M.Com.	B.Sc. Physics, B.Sc. Chemistry, M.Sc. Mathematics and M.Sc. Computer Science
6.	Thiruvalluvar University Constituent College of Arts and Science Thittagudi, Cuddalore District-606 106	B.C.A., B.Com. (Computer Application), M.Com., M.Sc. Computer Science	B.Sc. Physics, B.Sc. Chemistry, B.Sc. Zoology, M.A. English and M.Sc. Mathematics

Additional PG Degree courses started from the academic year 2017-2018 in the University PG Extension Centre

Thiruvalluvar University PG Extension Centre Arignar Anna Government Arts College Villupuram-605 602	M.Sc. Computer Science, M.Sc. Biotechnology, M.Sc. Zoology, M.B.A.

Industrial Consultation:

Biopesticides and Related Aspects:

- STANES & COMPANY LIMITED, 8/23-24, Race Course Road, Coimbatore-641 018, Tamil Nadu, India.
- Plant based biopesticides for the control of crop insects and mosquito 2 vectors.
- Mosquito repellent products from essential oil and botanical powders.
- Mosquito larvicides from Bt toxins, entomopathogenic fungi and Nuclear Polyhedrosis virus.
- Nanopesticides from botanicals (Green synthesis of silver nanoparticles).
- Novel insecticides with Entomopathogenic nemdatodes and predatory copepods for insect and mosquito larval control.
- New Mountain Innovations, Newyork, USA for Acoustic larvicides for the control of mosquito larval populations at the breeding sites with ultrasonic Device