



## DR. R. BABUJANARTHANAM

### 1. Designation and Corresponding Information

Professor & Head

Department of Biotechnology,

Thiruvalluvar University,

Serkkadu, Vellore-632115,

Mob: 9787919191.

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### 2. Personal Information

**Date of birth: 01 June 1972**

**Gender** : Male

### 3. Academic Qualification

Degree	Year	Subject	University/Institution
PGDEM	2011	Environmental Management	Anna University
Ph.D.	2010	Biotechnology	Periyar University
M.Phil.	1998	Biochemistry-Zoology	University of Madras
M.Sc.	1996	Biochemistry	University of Madras
B.Sc.	1993	Biochemistry	University of Madras

### 4. Major Area of Research

- Energy Biosciences (Biofuel production)
- Nano Biotechnology
- Environmental Biotechnology

### 5. Teaching Experience: 25 Years

S.No	Position held	Name of the Department & institution	Duration
1.	Lecturer	Department of Biochemistry, C. Abdul Hakeem College, Melvisharam, Vellore, Tamilnadu, India.	1996-2003

2.	<b>Head</b>	Department of Biochemistry, KMG College, Gudiyattam, Vellore, Tamilnadu, India.	2003-2013
3.	<b>Associate Professor</b>	Department of Biotechnology, Thiruvalluvar University, Vellore, Tamilnadu, India	2013-2016
4.	<b>Professor</b>	Department of Biotechnology, Thiruvalluvar University, Vellore, Tamilnadu, India	28.2.2016-till date
5.	<b>Professor &amp; Head</b>	Department of Biotechnology, Thiruvalluvar University, Vellore, Tamilnadu, India	21.05.2020-till date

**Research Experience : 14 years**

## 6. List of projects

S. No	Project title	Agency	Duration	Fund Received (Lakhs)
1.	“Chemosensitizing efficacy of capsaicin in paclitaxel induced drug resistance during breast cancer treatment: A study on the regulation of ABC transporters”	Tamil Nadu State Council for Higher Education	3 years 2020-2023 (On going)	20.05
2	Identification, Characterization and In silico prediction of human seminal plasma proteins and monoclonal antibody synthesis for treatment of human male infertility	UGC(DSK-PDF Scheme) No.F.4-2/2006 (BSR)/BL/19-20/0246	2021 to 2024 ( Ongoing)	19.00
3	Codelivery of ruxolitinib and docetaxel loaded liposomes to improve the chemotherapy in triple negative breast cancer cells and tumour xenograft models”	UGC(DSK-PDF Scheme)	2019 to 2022 Completed	23.00

## 7. Professional recognition

1. **Member**- Question paper setting board, Dept of biotechnology, Periyar University, Salem.
2. **Member**- Question paper setting board, Dept of biotechnology, Mother Teresa University, Kodaikanal.

3. **Member**- Question paper setting board, Auxillium College (Autonomous), Katpadi, Vellore.
4. **Member**- Question paper setting board, DKM College for women, (Autonomous), Vellore.
5. **Member**- Question paper setting board, St Joseph college of Arts and Science (Autonomous), Cuddalore.
6. **Member**- Question paper setting board, Sacred Heart College (Autonomous), Thirupattur.
7. **Member**- Question paper setting board, Kaleeswari college for women (Autonomous), Sivakasi.
8. **Member** – University Examinations inspection squad, Thiruvalluvar University, Vellore
9. **Member** – Board of Studies in Biochemistry (UG), Thiruvalluvar University, Vellore, (16.04.2010 to 15.04.2013).
10. **Member** – Selection Committee for the arrangement of the Guest lecturer in constituent colleges and PG extension center of Thiruvalluvar University, Thittakudi, 2013-2014
11. **Member** - Board of Studies in Department of Biotechnology, Thiruvalluvar University, from 27.01.2014 - till date.
12. **Member** – Selection committee for Guest lecturers in department of English for constituent Colleges and PG extension centers, Thiruvalluvar University (2014-2015).
13. **Member** – Academic Council, Sacred Heart College (Autonomous), Thirupattur. (2015-2017)
14. **Member** – Passing Board for PG Biotechnology, Thiruvalluvar University.
15. **Member**: New Courses affiliation committee, Thiruvalluvar University affiliated Colleges.
16. **Member**: Academic Council, Thiruvalluvar University, Vellore.
17. **Member**: Anti Ragging Committees, Squads and Monitoring Cell, Thiruvalluvar University
18. **Member**: RUSA, Thiruvalluvar University, Vellore
19. **Member**: Thiruvalluvar University Science Forum, Thiruvalluvar University, Vellore.
20. **Member**: Question paper setting board, Sacred Heart College (Autonomous), Thirupattur.
21. **Member**: Academic Council, DKM College for Women, Vellore
22. **Director In-charge**: Centre for Legal Affairs, Thiruvalluvar University (6 Jun 2019– till date)
23. **Vigilance Officer**: Thiruvalluvar University, Vellore. (6 Jun 2019– till date)
24. **Public information officer**: Thiruvalluvar University, Vellore. (4 Jan 2020– till date)
25. **Nodal Officer**: Thiruvalluvar University, Vellore. (4 Jan 2020 – till date)
26. **Member**: Academic Council, Adiparasakthi College of Arts and Science (Autonomous), Kalavai. (07.01.2021 – till date)
27. **Member**: Board of studies, Theivanai Ammal College for Women (Autonomous), Villupuram. (18.02.2021 – till date)
28. **Member**: Building construction monitoring committee, Thiruvalluvar University, Vellore. (03. 02. 2021)

- 29. Convener:** Fresh affiliation programme, Kind Nandhivarman College of Arts and Science, Thellar. (09.04.2021)
- 30. Convener:** Fresh affiliation programme, Valliammai Women’s College of Arts and Science, Arakandanallur. (20.04.2021 – till date)
- 31. Head In-charge:** Department of Physics, Thiruvallvar University, Vellore. (15.07.2021 – till date)
- 32. Member:** Academic Council, Muthurangam Government Arts College (Autonomous), Vellore. (16.07.2021 – till date)

## 8. Details of membership

1. **Life Member:** Indian Chemical Society (FICS), India – SF/7054(LM).
2. **Life Member:** Society for Biotechnologist, India – (L-460).
3. **Life Member:** Society of Biological Chemists, India (3795)
4. **Life Member:** Society of Pharmaceutical Education and Research- SPER/LM/TN/248
5. **President:** Society of Pharmaceutical Education and Research (Tamil Nadu)

## 9. Details of abroad visit:

1. **Visiting Researcher-** National University of Singapore, **Singapore.** (11- 26 Jun 2015)
2. **Academic Visitor-** University of Nebraska Lincoln, **Nebraska, USA.** (31 Aug-20 Sep 2017)
3. **Academic Visitor-** Chulalongkorn University, **Bangkok, Thailand.** (18-30 Jun 2018)
4. **Invited Speaker-** AIMST University, **Bedong, Kedah, Malaysia.** (21-23 Sep 2018)
5. **Invited Speaker** – Genomic research centre, **Taiwan.** (9-14 Jun 2019)
6. **Academic Visitor-** School of Chinese Medicine, Baptist University, **Hong Kong.** (15 - 18 Jun 2019)

## 10. Honours /awards:

1. **Best Faculty Award:** 2018, Nature Science Foundation, Coimbatore, Tamil Nadu, India.
2. **Outstanding Faculty Award:** 2018, AIMST University, Kedah, Malaysia.

## 11. Research Guidance/ Supervision

Programmes of Study	Completed	Ongoing
Ph.D	08	04
M.Phil	27	00
M.Sc	65	05

**11. List of publication : 53**

**Total Citation: 560; h-index:14; i10:17; Total Impact Factor: 94.943**

1. **Ranganathan Babujanarthanam**, Purushothaman Kavitha, and Moses Rajasekarapandian. “Quercitrin, a Bioflavonoid improves glucose homeostasis in streptozotocin- induced diabetic tissues by altering glycolytic and gluconeogenic enzymes.” *Fundamental and Clinical Pharmacology*, 24(3), 357-64. 2009 - **Impact Factor: 2.748** – UGC approved journal. No - **17851**
2. **Ranganathan Babujanarthanam**, Purushothaman Kavitha, SarikaSasi and Moses RajasekaraPandian (2010) “Ultrasound mediated Biodiesel production from jatropha oil using calcium Alginate Immobilized Rhizopusoryzae.” *Journal of Theoretical and Experimental Biology*, 6 (3 and 4): 225- 34, 2010. **Impact factor: 2.691**
3. **Ranganathan Babujanarthanam**, Purushothaman Kavitha, SarikaSasi and Moses Rajasekara Pandian. “Quercitrin, a bioflavonoid increases glucose utilization and altering the carbohydrate metabolic enzymes in streptozotocin-induced diabetic rat tissues.” *Journal of Theoretical and Experimental Biology*, 6 (3&4):225-234.2010. **Impact factor: 2.691**
4. **Ranganathan Babujanarthanam**, Purushothaman Kavitha, U.S. Mahadevarao and Moses Rajasekara pandian. “Quercitrin a bioflavonoid improves the antioxidant status in streptozotocin induced diabetic rat tissues.” *Molecular and Cellular Biochemistry*, 358(1-2):121-129. 2011 - **Impact Factor: 3.396** – UGC approved journal. No - **31515**
5. U.S. Mahadeva Rao, **R.Babujanarthanam** and B.Arirudran. “Clinical Evaluation to Assess the Efficacy of Ethanolic Extract of Avocado Fruit on Diabetic Dyslipidemia Studied in STZ- Induced Experimental Albino Rats.” *Asian Journal of Research Chemistry*, 4(7) 1131-36. 2011. **Impact factor: 4.056**
6. **R. Babujanarthanam** and R. Balabhaskar, U.S. Mahadeva Rao, “Comparative Biochemical Evaluation of Hyperglycemic and Free Radical Scavenging activities of Noni and Spirulina in Streptozotocin induced Diabetic Rat tissues.” *Journal of Pharmacy Research* 4(10), 3630-3634. 2011 - **Impact Factor: 2.327**
7. **Babujanarthanam** and P. Kavitha, “Anti-hyperglycaemic and Antioxidant Role of Quercitrin, a Bio Flavonoid, in Streptozotocin-Induced Diabetic Wistar Rat tissues.” *Journal of Pharmacy Research*, Vol 4, 3833-3837. 2011 - **Impact Factor: 2.327**
8. Devakumar, R.sankar, R.S.Venkatesan, **R. Babujanarthanam**, V.Rekha. “Antinephrotic effect of Morin on cadmium induced nephrogenic poisoning.” *Asian Journal of Pharmaceutical and clinical Research*. Vol 4, 16-21, 2011 - **Impact Factor: 3.968**
9. **R. Babujanarthanam** and P. Kavitha. “Simultaneous Saccharification and Fermentation of Dilute Acid Pretreated Red Algae (*Gelidiellaacerosa*) for Bioethanol Production.” *Energy Sources*, Part A, 36:1305–1314, 2014 - **Impact Factor: 1.184** - UGC approved journal. No - **19581**

10. P. Aswini, P.Kavitha, A.R. Revathy, **R. Babujanarthanam**. "Poly  $\beta$  hydroxyl butyrate (PHB) Biosynthesis in Bacillus." *International journal of Pharmaceutical sciences Review and Research*. 28(1), 8-11, 2014 - **Impact Factor: 2.327**
11. P. Kavitha, **R. BabuJanarthanam** and P. Sekar. "Phytochemical mediated Synthesis of Gold nanoparticles." *International Journal of Pharmaceutical Science Invention*. Volume 3, 17-22, 2014- **Impact Factor: 2.327**
12. P.Sumathy and **R. BabuJanarthanam**. "Formulation and Evaluation of Biodegradable sustained Release Aceprophyline Cow Urine Nanoparticle for the Treatment of Asthma" *International Journal of Pharmacy and Analytical Research*, Vol. - 4(2) 155-167, 2015- **Impact Factor: 2.327**
13. Abilash. D, Praveena. B, **BabuJanarthanam. R** and Murthy. S.D.S. "High light induced alterations in photosynthetic electron transport activities in the cyanobacterium *synechococcus*6301." *International journal of plant, Animal and environmental Science*, Volume-5, Issue-3, 57-58, 2015.
14. Devipriya Anbumani, P. Kavitha, T.N. Baskaran and **R. Babujanarthanam**. "A Case study on Heamatological Parameters and Immune system Alterations in Granite Workers." *Journal of Current Microbiology and Applied Sciences*, Volume 3(4) 85 -95, 2016.
15. Dhandapani Kayal Vizhi, Nookala Supraja, Anbumani Devipriya, Naga Venkata Krishna Vara Prasad Tollamadugu and **Ranganathan Babujanarthanam**. "Evaluation of Antibacterial activity and cytotoxic effects of green AgNps against Breast Cancer cells (MCF 7)." *Advances in Nano Research*, Vol. 4, No. 2 (2016) 129 – 143, 2016 – **Impact factor: 4.583**
16. G. Arumugam, M. Nagalingam, **R. Babujanarthanam** and A. Panneerselvam. "A Review on Anticancer Efficacy of some Folklore Medicinal Plants used in Tamilnadu." *Advanced Research Journal of Life sciences*, Vol 2(4): 1-4, 2016.
17. N. Supraja, T.N.V.K.V. Prasad, M. Soundariya and **R. Babujanarthanam**. "Synthesis, characterization and dose dependent antimicrobial and anticancerous activity of phycogenic silver nanoparticles against human hepatic carcinoma (HepG2) cell line" *Aims Bioengineering*, DOI: 10.3934/bioeng.2016.4.425 – **Impact factor: 0.23**
18. Subramanian Arivoli, Samuel Tennyson, Rajasingh Raveen, Manickkam Jayakumar, Balasubramanian Senthilkumar, Marimuthu Govindarajan, **Ranganathan Babujanarthanam**, Selvaraj Vijayanand, " Larvicidal activity of fractions of *Sphaeranthus indicus* Linnaeus (Asteraceae) ethy acetate whole plant extract against *Aedes aegypti* Linnaeus 1762, *Anopheles stephensi* Liston 1901 and *Culex quinquefasciatus* Say1823 (Diptera: Culicidae), *International Journal of Mosquito Research*, 2016; 3(2): 18-30 – **Impact factor: 0.13**

19. Arumugam Dhanesh Gandhi, Dhandapani Kayal Vizhi , Kubendiran Lavanya , V.N. Kalpana , V. Devi Rajeswari , **Ranganathan Babujanathanam\***, In vitro anti- biofilm and anti-bacterial activity of Sesbania grandiflora extract against Staphylococcus aureus **Biochemistry and Biophysics Reports** .[Elsiver], 12(2017),193-197 – **Impact factor: 2.61** – UGC approved journal. No - **14577**
20. Parthipan P, Sarankumar RK, Jaganathan A, Amuthavalli P, Babujanathanam R, Rahman PK, Murugan K, Higuchi A, Benelli G, Rajasekar A. 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. 2018 Apr 1;25(11):10471-81. doi:10.1007/s11356-017-0105-0. **Impact factor: 4.223** – UGC approved journal. No - **64748**
21. Purandaradas A, Silambarasan T, Murugan K, **Babujanathanam R**, Gandhi AD, Dhandapani KV, Anbumani D, Kavitha P. Development and quantification of biodiesel production from chicken feather meal as a cost-effective feedstock by using green technology. Biochemistry and biophysics reports. 2018 Jul 31; 14:133-9 - **Impact factor: 2.61** – UGC approved journal. No - **14577**
22. Sathishkumar K, Narenkumar J, Selvi A, Murugan K, **Babujanathanam R**, Rajasekar A. Treatment of soak liquor and bioelectricity generation in dual chamber microbial fuel cell. Environmental Science and Pollution Research. 2018 Apr 1;25(12):11424-30 - **Impact factor: 4.223** – UGC approved journal. No - **64748**
23. Supraja N, Prasad TN, Gandhi AD, Anbumani D, Kavitha P, **Babujanathanam R**. Synthesis, characterization and evaluation of antimicrobial efficacy and brine shrimp lethality assay of Alstonia scholaris stem bark extract mediated ZnONPs. Biochemistry and biophysics reports. 2018 Jul 31;14:69-77 - **Impact factor: 2.61** – UGC approved journal. No - **14577**
24. Balasundaram M, Dhanesh Gandhi A, Kavitha P, **Babujanathanam, R**. 2018. Effect of Caesalpinia pulcherrima (L.) Sw. seeds on serum glucose and other metabolic parameters of normal and alloxan - induced diabetic rats. Diabesity 4(2): 9-16. DOI: 10.15562/diabesity.2018.49
25. Pavunraj M, Rajeshkumar S, Bhuvana L, Babujanathanam R. Preparation of Cassia auriculata plant extracts using different solvents and its antibacterial and antifungal activity against clinical pathogens. Drug Invention Today. 2019 Jan 1;11(1).
26. Arumugam DG, Sivaji S, Dhandapani KV, Nookala S, Ranganathan B. Panchagavya mediated copper nanoparticles synthesis, characterization and evaluating cytotoxicity in brine shrimp. Biocatalysis and Agricultural Biotechnology. 2019 May 1;19:101132. UGC approved journal. No – 14549. **Impact factor-3.28**

27. Gandhi AD, Murugan K, Umamahesh K, **Babujanarthanam R**, Kavitha P, Selvi A. Lichen *Parmelia sulcata* mediated synthesis of gold nanoparticles: an eco-friendly tool against *Anopheles stephensi* and *Aedes aegypti*. *Environmental Science and Pollution Research*. 2019 Jun 19;1-3. **Impact factor: 4.223**
28. Saravanan N, Rajendiran P, Sankar S, Ramamurthy M, Jesudason MV, Varghese G, Idikula MJ, Mangalakumar RR, Nair A, Babujanarthanam R, Nandagopal B. A novel multiplex real-time PCR for the detection of *Salmonella Typhi*, *Salmonella Paratyphi A* and *Burkholderia pseudomallei* in clinical samples. *Asian Pacific Journal of Health Sciences*. 2019 Jun 30;6(2):88-95. **Impact factor: 0.44**
29. Mani M, Pavithra S, Babujanarthanam R, Devi NS, Kumaresan S, Selvaraj S. Rapid Synthesis, Characterization and Antibacterial Activities of Ag-NPs Derived from *Marsilea quadrifolia*. *The International journal of analytical and experimental modal analysis*. 2019 9(11) ISSN NO: 0886-9367
30. US MR, Kausar SA, Kumar SS, Janarthanam RB. Is Kaasini Plant (*Cichorium Intybus L.*) Panacea to Modified Life Style Causing Diseases in Traditional Medicine?: A Review. *International Medical Journal*. 2020 Feb 1;27(1). **Impact factor: 0.20**
31. Suriyakala G, Sathiyaraj S, Dhanesh GA, Kavitha P, Babujanarthanam R. Bioremediation of tannery effluent- A eco-friendly tool. *Scientific aids for sustainable business*. Mahi publications. ISBN: 978-93-89339-37-6.
32. Dhandapani KV, Anbumani D, Gandhi AD, Annamalai P, Muthuvenkatachalam BS, Kavitha P, Ranganathan B. Green route for the synthesis of zinc oxide nanoparticles from *Melia azedarach* leaf extract and evaluation of their antioxidant and antibacterial activities. *Biocatalysis and Agricultural Biotechnology*. 2020 Jan 31;101517. UGC approved journal. No – 14549. **Impact factor-3.28**
33. Arumugam Dhanesh Gandhi, Sivaji Sathiyaraj, Gunasekaran Suriyakala, Sivakumar Saranya, Tirumalpur Neelakandan Baskaran, Balasubramani Ravindran and Ranganathan Babujanrthanam\*, “Lichens in Genus *Parmelia*: An Overview and their Application”, *Current Pharmaceutical Biotechnology* (2020) 21: 1. **Impact factor – 2.837**
34. Rao US, Kausar SA, Janarthanam RB, Djearmane S, Kumar SS. Biochemical Evaluation of Antidiabetic Effect of Kasini ashshifa, a Polyherbal formulation in High Fat Diet Fed-Low Dose STZ Induced Diabetes in Rats. *Research Journal of Pharmacy and Technology*. 2020;13(3):1474-82.
35. Saranya S., Selvi A., Babujanarthanam R., Rajasekar A., Madhavan J. (2020) Insecticidal Activity of Nanoparticles and Mechanism of Action. In: Siddhardha B., Dyavaiah M.,



- Kasinathan K. (eds) Model Organisms to Study Biological Activities and Toxicity of Nanoparticles. Springer, Singapore. DOI [https://doi.org/10.1007/978-981-15-1702-0\\_12](https://doi.org/10.1007/978-981-15-1702-0_12)
36. Saranya S, Gandhi AD, Suriyakala G, Sathiyaraj S, Purandaradas A, Baskaran TN, Kavitha P, Babujanarthanam R. A biotechnological approach of Pb (II) sequestration from synthetic wastewater using floral wastes. *SN Applied Sciences*. 2020 Aug;2(8):1-2.
  37. Sathiyaraj S, Suriyakala G, Gandhi AD, Saranya S, Santhoshkumar M, Kavitha P, Babujanarthanam R. Green Biosynthesis of Silver Nanoparticles Using Vallarai Chooranam and Their Potential Biomedical Applications. *Journal of Inorganic and Organometallic Polymers and Materials*. 2020 Jul 26:1-11. **Impact factor- 3.543**
  38. Suriyakala G, Sathiyaraj S, Kavitha P, Babujanarthanam R. A review of the novel corona disaster in india. *International Research Journal of Modernization in Engineering Technology and Science*. 2020, 2(7). **Impact factor: 0.189**
  39. Sundaram MB, Gandhi AD, Bhaskaran TN, Kavitha P, Navukkarasi T, Babujanarthanam R. In vivo Hypoglycaemic effect of Ethanolic extract of *Momordica charantia* using Albino rats of Wistar strain. *Research Journal of Pharmacy and Technology*. 2020 Oct 12;13(10):4875-82. **Impact factor: 2.327**
  40. Suriyakala G, Sathiyaraj S, Gandhi AD, Vadakkan K, US MR, Babujanarthanam R. *Plumeria pudica* Jacq. flower extract-mediated silver nanoparticles: characterization and evaluation of biomedical applications. *Inorganic Chemistry Communications*. 2021 Jan 21:108470. **Impact factor-2.495**
  41. Thirumalpur Neelakandan Baskaran, Murali Santhosh, Kalaimani Saravanan, Sivaji Sathiyaraj, Gunasekaran Suriyakala, Babujanarthanam. Biologically Fabricated Silver Nanoparticles from Mesophilic Bacteria (*E. coli*) Produces Cytotoxicity Through Apoptotic Signaling in Breast Cancer MCF-7 Cells. *International Journal of Pharmacy and Biological Sciences-IJPBSTM* (2021) 11 (1): 168-175 **Impact factor: 0.298**
  42. Mani M, Pavithra S, Mohanraj K, Kumaresan S, Alotaibi SS, Eraqi MM, Gandhi AD, Babujanarthanam R, Maaza M, Kaviyarasu K. Studies on the spectrometric analysis of metallic silver nanoparticles (Ag NPs) using *Basella alba* leaf for the antibacterial activities. *Environmental Research*. 2021 May 14:111274. **Impact factor- 6.498**
  43. Thirumalpur Neelakandan Baskaran, Sivaji Sathiyaraj, Gunasekaran Suriyakala, Ponnurangam Dhivya and Ranganathan Babujanarthanam. Zinc Oxide Nanoparticles Fabricated and Characterized from Mesophilic Bacteria (*Escherichia coli*) inhibits the growth of pathological microbes. *International Journal of Current Microbiology and Applied Sciences*. (2021) 10(05): 436-447

44. Changlu LI, Chunling ZHANG, Yanfei WANG, Alaa Yousef GHIDAN & **Ranganathan BABUJANARTHANAM**. Nobiletin Enhances the Chemotherapeutic Efficacy of Docetaxel through Inhibition of PI3K/AKT and Induction of Apoptosis in Colon Cancer Cells. *Lat. Am. J. Pharm.* 40 (7): 1478-86 (2021). **Impact factor- 0.240**
45. Sathiyaraj S, Suriyakala G, Gandhi AD, **Babujanathanam R**, Almaary KS, Chen TW, Kaviyarasu K. Biosynthesis, characterization, and antibacterial activity of gold nanoparticles. *Journal of Infection and Public Health.* 2021 Oct 14. **Impact factor-7.537**
46. Suriyakala G, Sathiyaraj S, Devanesan S, Alsalhi M S, Rajasekar A, Marimuthu M K, **Babujanathanam R**. Phyto Synthesis of Silver Nanoparticles from *Jatropha integerrima* Jacq. Flower Extract and Their Possible Applications as Antibacterial and Antioxidant Agent. DOI: 10.1016/j.sjbs.2021.12.007. **Impact factor- 4.219**
47. Gandhi AD, Umamahesh K, Sathiyaraj S, Suriyakala G, Velmurugan R, Al Farraj DA, Gawwad MR, Murugan K, **Babujanathanam R**, Saranya R. Isolation of bioactive compounds from lichen *Parmelia sulcata* and evaluation of antimicrobial property. *Journal of Infection and Public Health.* 2022 Apr 1;15(4):491-7. **Impact factor-7.537**
48. Nithiyandanan Saravanan, Prashanth Rajendiran, Sathish Sankar, Mageshbabu Ramamurthy, Kumaran Vadivel, **Ranganathan Babujanathanam**, Mary V. Jesudason, George Varghese, Mercy John, Mathew Mazhavancheril, Rajarajeshwari Mangalakumar, Balaji Nandagopal, & Gopalan Sridharan. (2022). Standardization and Evaluation of an In-house Multiplex Real-time Polymerase Chain Reaction for Simultaneous Detection of Pathogenic Species of *Brucella*, *Rickettsia*, and *Leptospira* in Patients with Acute Febrile Illness. *Asian Pacific Journal of Health Sciences*, 9(2), 14–21.
49. Sathiyaraj S, Suriyakala G, Gandhi AD, **Babujanathanam R**, Kaviyarasu K, Rajakrishnan R, Kuppusamy P, Philippe BE. Chemical composition and mosquitocidal efficacy of panchagavya against *Anopheles stephensi*, *Aedes aegypti* and *Culex quinquefasciatus*. *Journal of King Saud University-Science.* 2022 Jun 1;34(4):101960. **Impact factor – 3.829**
50. Sathiyaraj S, Suriyakala G, Gandhi AD, Baskaran TN, **Babujanathanam R**. In vitro evaluation of antibacterial, antioxidant, and anticancer properties of panchagavya. *Research Journal of Pharmacy and Technology.* 2022;15(4):1631-5.
51. Suriyakala G, Sathiyaraj S, **Babujanathanam R**, Alarjani KM, Hussein DS, Rasheed RA, Kanimozhi K. Green synthesis of gold nanoparticles using *Jatropha integerrima* Jacq. flower extract and their antibacterial activity. *Journal of King Saud University-Science.* 2022 Apr 1;34(3):101830. **Impact factor – 3.829**
52. Zou G, Wan J, Balupillai A, David E, **Ranganathan B**, Saravanan K. Geraniol enhances peroxiredoxin-1, and prevents isoproterenol-induced oxidative stress and inflammation

associated with myocardial infarction in experimental animal models. Journal of Biochemical and Molecular Toxicology. 2022 Aug;36(8):e23098. Impact factor – 3.568

53. Velmurugan R, Kuhad RC, Gandhi AD, **Babujanathanam R**, Incharoensakdi A. Detoxification of Hemicellulosic Hydrolysates for Improved Xylitol Production. In Current Advances in Biotechnological Production of Xylitol 2022 (pp. 33-50). Springer, Cham.

#### **BOOK PUBLISHED:**

**Medical lab Technology – Book – ISBN – 819091235 – 5.**

#### **12. Organized state level seminars:**

1. State level seminar on Bewilder Bio Chem. – 2005 in K.M.G. College, Gudiyattam on 2<sup>nd</sup> - 3<sup>rd</sup> December 2005.
2. State level seminar on Trends in Bio Sciences (TIBS – 06) in K.M.G. College, Gudiyattam. On 21<sup>st</sup> - 22<sup>nd</sup> December 2006.
3. State level seminar on Trends in Biosciences (TIBS – 08) in K.M.G. College of Arts and Science, Gudiyattam on 5<sup>th</sup> March 2008.

#### **13. Organized National Level Conferences**

1. National Conference on Recent Trends in Chemical and Biological Sciences in K.M.G. College of Arts and Science, Gudiyattam on 23<sup>rd</sup>& 24<sup>th</sup> of January 2009 (souvenir released).
2. National Conference on Recent Trends in Biochemistry in K.M.G. College of Arts and Science, Gudiyattam on 24<sup>th</sup> February 2010 & Souvenir released.
3. National Conference on Recent Trends in Biochemistry in K.M.G. College of Arts and Science, Gudiyattam on 15<sup>th</sup> October 2010.
4. Organizing committee member in Recent advances in Biotechnology-2015, Department of Biotechnology, Thiruvalluvar University.

#### **14. Organized International Conferences**

1. Organizing committee member in Recent advances in Bio medical technology-2016, Department of Biotechnology, Thiruvalluvar University.
2. Organizing committee member in Recent advances in Bio resource technology-2017, Department of Biotechnology, Thiruvalluvar University
3. **Organizing Secretary** in Recent advances in Bio medical technology (RABT) on Aug 29<sup>th</sup>-31<sup>st</sup>, 2018, Department of Biotechnology, Thiruvalluvar University
4. **Convener**, International conference on Recent Trends in Science and Technology on 21<sup>st</sup>-23<sup>rd</sup> sep-2018, AIMST University, Bedong, Kedah, Malaysia.

5. **Convener**, International seminar on Recent Advances in Bioremedial Technology (RABT 2020) on 31<sup>st</sup> January, 2020, Department of Biotechnology, Thiruvalluvar University.

#### **15. workshop:**

1. National work shop on antidiabetic medicinal herbs-screening and assessment, department of biochemistry and biotechnology, Annamalai University, 28<sup>th</sup> march 2009
2. Training Program in Gene win Biotech Hosur, 6<sup>th</sup> to 29<sup>th</sup> May 2013
3. Training Program in Bharath Biotech Internationals limited, Hyderabad, India from 14<sup>th</sup> to 28<sup>th</sup> June 2014
4. Lecture workshop on Mining metabolites from plants to microbes from 29<sup>th</sup> to 31<sup>st</sup> Aug 2016 in VIT University, Vellore
5. National Workshop cum Hands on Training on “DNA Barcoding – Molecular Analysis & Bioinformatics Approaches” at Islamiah College (Autonomous), Vaniyambadi, 07<sup>th</sup> – 10<sup>th</sup> September 2016.
6. Popular Lecture on Biotechnology in VIT University on 1<sup>st</sup> September 2016.

#### **16. Refresh Courses:**

1. Refresh Course attended in the Bharathiyar University, Coimbatore Sponsored by the UGC-HRD Center from 5<sup>th</sup> to 26<sup>th</sup> may 2015.

#### **17. Orientation Courses:**

1. DST Familiarization Program for college Teachers, VIT University, Vellore, 11<sup>th</sup> February 2008.
2. Indian Red Cross Society Tamil Nadu branch and Youth Red Cross of Thiruvalluvar University conduct 3 days zonal level orientation program 25<sup>th</sup> to 27<sup>th</sup> Oct 2016 in Thiruvalluvar University.

#### **18. International and National Conferences symposium, congress, seminar (Presented – Oral and Posters / Participated):**

##### **International conferences, symposium, congress, seminar:**

Presented – **10**, Participated – **9**

##### **National conferences, symposium, congress, seminar:**

Presented – **28**, Participated – **21**

##### **State level seminar:**

Presented – **5**, Participated - **4**

#### **19. Special Lecture:**

1. Antidiabetic and Antimicrobial activity of Biosynthesised CuNPs Using panchakavya. Department of Nutrition and Health Science. University of Nebraska Lincoln, **Nebraska, USA.**

#### **20. Invited talk:**

1. Talk on “Bridging Biochemistry and Molecular Biology: A Peek into Future” in an International conference, Theivanai ammal college for women, **Vilupuram** (6<sup>th</sup> Sep 2019).

#### **21. Reviewer**

**Elsevier:** International Journal of Biological Macromolecules, Journal of Engineering and Industrial Chemistry, Toxicology; **Springer:** Archives of Microbiology, Biomass Conversion and Biorefinery, Journal of Genetic Engineering and Biotechnology; **Techno press:** Advances in Nano research; **Taylor and Francis:** Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. **Wiley:** Applied Organometallic Chemistry.

#### **22. Editorial Member:**

1. International Journal of World Research.
2. Asian Journal of medicine and Biomedicine (Regional Editor).