Department Publications

2021

1. Ila Joshi, Habeeb Shaik Mohideen and Rasool Abdul Nazeer, 2021. A *Meretrix meretrix* visceral mass derived peptide inhibits lipopolysaccharides-stimulated responses in RAW264.7 cells and adult zebrafish model. International Immunopharmacology, 90:107140. (DOI:10.1016/j.intimp.2020.107140).
2. Pandian S., S.N. Sivaswamy, W. Hopper 2021. *In silico* studies on pancreatic lipase and cholesterol esterase inhibitor 2,6-di-tert-butyl phenol: A Novel molecule for Antiobesity. Research Journal of Pharmacy and Technology 14(2):763-768. doi: 10.5958/0974-360X.2021.00133.5.
3. Divya S.R., C.P.D. Kottaisamy, W. Hopper, U. Sankaran 2021. Identification of immucillin analogue natural compounds to inhibit *Helicobacter pylori* MTAN through high throughput virtual screening and molecular dynamics simulation. *In Silico* Pharmacology 9: 22. doi.org/10.1007/s40203-021-00081-2
4. Valproic acid, A Potential Inducer of Osteogenesis in Mouse Mesenchymal Stem Cells Akshaya N, Prasith P, Abinaya B, Ashwin B, Chandran SV, Selvamurugan N. (2021) Current Molecular Pharmacology 14: 27-35; Impact Factor: 3.283
5. Histone acetyl transferases and their epigenetic impact on bone remodeling Gomathi K, Akshaya N, Srinaath N, Rohini M, Selvamurugan N. (2021) International Journal of Biological Macromolecules 170: 326-335; Impact factor: 5.162
6. Polycaprolactone fibrous electrospun scaffolds reinforced with copper doped wollastonite for bone tissue engineering applications Abudhahir M, Saleem A, Paramita P, Kumar SD, Tze-Wen C, Selvamurugan N, Moorthi A. (2021) Journal of Biomedical Materials Research Part B: Applied Biomaterials 109: 654-664; Impact Factor: 2.831
7. Metal doped calcium silicate biomaterial for skin tissue regeneration in vitro Mohamed Abudhahir K, Murugesan R, Vijayashree R, Selvamurugan N, Chung TW, Moorthi A. (2021) Journal of Biomaterials Applications (In press). Impact Factor: 2.220
8. Regulation of Runx2 and its signaling pathways by microRNAs in breast cancer metastasis Pranavkrishna, S., Sanjeev, G., Akshaya, R.L., Rohini, M., and Selvamurugan, N. (2021) Current Protein & Peptide Science (In press). Impact Factor: 2.520
9. Synthesis and Characterization of Magnesium Diboride Nanosheets in Alginate/Polyvinyl Alcohol Scaffolds for Bone Tissue Engineering R. Abhinandan, S. Pranav Adithya, D. Saleth Sidharthan, K. Balagangadharan, and N. Selvamurugan (2021) Colloids and Surfaces B: Biointerfaces (in press). Impact Factor: 4.389

10. Sambrinath C, Betsy Ann Varghese, A. V. Sudarsan and E. Berla Thangam, Therapeutic Role of Cytokines in Infectious and Non-Infectious Diseases, In: Cytokines: Roles and Therapeutic Implications; Page No: 97-120, ISBN: 978-1-53619-036-6 Editor: Erik Krueger © 2021 Nova Science Publishers, Inc.
11. Investigation of therapeutic potential of cerium oxide nanoparticles in Alzheimer's disease using transgenic *Drosophila* Sundararajan V, Venkatasubbu GD, Sheik Mohideen S. (2021) 3 Biotech. Apr, 11(4):159. 2021.
12. Thymoquinone as a potential therapeutic for Alzheimer's disease in transgenic *Drosophila melanogaster* model Narayanan NV P, Vignesh S, Pallavi D, G. Devanand V, Sahabudeen S (2021), Biocell (In Press)
13. Karan N, Rajaguru P, koustav Sarkar, Ganesh MR, Suzuki T, Ali D, Ramkumar KM*. Pharmacological activation of Nrf2 by rosolic acid attenuates endoplasmic reticulum stress in endothelial cells. Oxidative medicine and cellular longevity, 2021; 2732435: 1-20. (I.F.: 5.07)
14. Jayasuriya R, Ramkumar KM*. Role of long non-coding RNAs on the regulation of Nrf2 in chronic diseases. Life Sci. 2021:119025. (I.F.: 3.64)
15. Padmavathi G and Ramkumar KM*. MicroRNA mediated regulation of the major redox homeostasis switch, Nrf2, and its impact on oxidative stress-induced ischemic/reperfusion injury. Archives of Biochemistry and Biophysics, 2021; 698:108725 (I.F.: 3.39; Citation: 1)
16. Victor P, Sarada DVL, Ramkumar KM*. Crosstalk between endoplasmic reticulum stress and oxidative stress: Focus on protein disulfide isomerase and endoplasmic reticulum oxidase 1. Eur J Pharmacol. 2021; 892: 173749. (I.F.: 3.26, Citation: 2)
17. Teena R, Dhamodharan U, Jayasuriya R, Rajesh K, Ramkumar KM*. Analysis of the exonic single nucleotide polymorphism rs182428269 of the NRF2 gene in patients with Diabetic Foot Ulcer. Archives of Medical Research. 2021;52(2):224-232 (I.F.: 2.09)
18. Paul V, Dhamodharan U, Leema G, Udyama J, Goutham V, Karan Amin, Vijay V, Ramkumar KM*. Crosstalk between Endoplasmic Reticulum stress and Oxidative stress in the Progression of Diabetic Nephropathy. Cell Stress and Chaperones, 2021; 26(2): 311-321. (I.F.: 2.89)
19. Ramya P, Inmozhi R, Sivakamasundari, Dhamodharan U, Sethupathy S, Ramkumar KM, Nalini N. Association between tumor prognosis marker visfatin and proinflammatory cytokines in hypertensive patients. BioMed Research International. 2021; 8568926: 1-7. (I.F.: 2.27)

20. Karan N, Palanisamy R, Sarada DVL, Ali D, Suzuki T and Ramkumar KM *. Effect of Rosolic acid on endothelial dysfunction under ER stress in pancreatic microenvironment. Free Radical Research 2021; 31:1-16 (I.F.: 2.77)

21. Venugopal R. Bovilla, Preethi G. Anantharaju, Sireesh Dornadula, Prashanthkumar M. Veeresh, Mahadevaswamy G. Kuruburu, Vidya G. Bettada, Ramkumar KM*, SubbaRao V. Madhunapantula*. Nuclear factor erythroid 2-related factor 2-modulating caffeic acid and protocatechuic acid retard Ehrlich ascites carcinomas in mice. Asian Pacific Journal of Tropical Biomedicine. 2021 (In press) (I.F.: 1.90)

22. M.P. Das, G. Pandey, B. Neppolian, **J. Das***. **Design of poly(L-glutamic acid) embedded mesoporous bioactive glass nanospheres for pH-simulated chemotherapeutic drug delivery and antibacterial susceptibility**. Colloid and Surfaces B. 111700 (**2021**) **IF-4.3**. https://doi.org/10.1016/j.colsurfb.2021.111700

23. S. Bhattacharjee, P. Subha, M.P. Das, M.-R. Ganesh, Y.-B. Shim, B Neppolian, **J. Das***. **Fabrication of silver-grafted silica nanohybrids via aminosilane-inspired surface functionalization for enhanced electrochemical performance towards gastric cancer biomarker**. Applied Surface Science. 541 (**2021**) 148517. **IF - 6.2** https://www.sciencedirect.com/science/article/abs/pii/S016943322033275X
24. P. Velusamy*, Chia-Hung Su, K. Kannan, G. Venkat Kumar, P. Anbu4, S.C.B. Gopinath (2021). Surface engineered iron oxide nanoparticles as efficient materials for antibiofilm application. Biotechnology and Applied Biochemistry. (In Press)
25. Victor P, **Sarada DVL**, Ramkumar KM* (2021). Crosstalk between endoplasmic reticulum stress and oxidative stress: Focus on protein disulfide isomerase and endoplasmic reticulum oxidase 1. Eur J Pharmacol. 2021; 892: 173749. http://doi.org.10.1016/j.ejphar.2020.173749

26. Karan N, Palanisamy R, **Sarada DVL**, Ali D, Suzuki T and Ramkumar KM * (2021). Effect of Rosolic acid on endothelial dysfunction under ER stress in pancreatic microenvironment. Free Radical Research 31:1-16. https://doi.org/10.1155/2021/2732435
27. Sai Bharadwaja, Praveen kumar, Rakesh,Jocelyn Cleta, Sneha chandrakumar, **Sujatha S.** An in vitro mechanistic approach towards understanding the distinct pathways regulating Insulin resistance and adipogenesis by apocynin. **Journal of Biosciences.** 46,8 (2021). doi: 10.1007/s12038-020-00134-2. (IF: 1.89)

28. Amala R, **Sujatha S.** Presence of pyrroloquinoline alkaloid in Adhatoda vasica attenuates inflammatory response through the downregulation of proinflammatory mediators in LPS stimulated RAW 264.7 macrophages. **Bioimpacts.** 11(1)(2021), 15-22. doi: 10.34172/bi.2021. (IF: 3.48)

29. Vidya Venkateswaran, Vinduja Vasudevan, Aradhana Karthikeyan, Vrithi Sundararaman, Ineya Madhavan, Samantha Prathab, Aakash John Peter, Nagasathiya Krishnan, Velmurugan Devadasan, & **Pachaiappan Raman**. (2021). Traditional Indian plants as the source of compounds to treat a respiratory viral infection. *International Journal of Research in Pharmaceutical Sciences*, *12*(1), 446-455. https://doi.org/10.26452/ijrps.v12i1.4089

30. S. Velayutham, S.K. Jayaraj, **P. Raman** and T. Paramasivam. (2021). Transition metal ion-doped In2O3 nanocubes: investigation of their photocatalytic degradation activity under sunlight. ***Nanoscale Adv.***, **3**, 471-485. doi: 10.1039/d0na00694g.

31. R Beura, **R Pachaiappan**, and T Paramasivam. (2021). Photocatalytic degradation studies of organic dyes over novel Ag-loaded ZnO-graphene hybrid nanocomposites. *Journal of Physics and Chemistry of Solids,* 148, 109689. https://doi.org/10.1016/j.jpcs.2020.109689. ***Impact Factor: 2.048***
32. R. Muneeswari, K. V. Swathi, G. Sekaran, **K. Ramani*** Microbial-induced biosurfactant-mediated biocatalytic approach for the bioremediation of simulated marine oil spill. *International Journal of Environmental Science and Technology*, Article in press. https://doi.org/10.1007/s13762-020-03086-0 (2021) (IF: 2.540)
33. **Kandasamy Ramani***, Maseed Uddin, Krishnan Venkatesan Swathi, Rajasekaran Muneeswari, and Mohan Thanmaya. Recent Advances in Understanding the Role of Wastewater Treatment Processes for the Removal of Plastic Derived Nitrogen Compounds in Municipal Landfill Leachate. *Title of the Book: Soil and Recycling Management in the Anthropocene Era. Springer Nature,* (2021) PP 1-26. ISBN 978-3-030-51885-1 https://doi.org/10.1007/978-3-030-51886-8
34. Saikia K., Kumar A.K.R., **Kumar V.V.,** Cabana H., Vaithyanathan V.K., (2021) "Preparation of highly diffusible porous cross-linked lipase B from *Candida antarctica* conjugates: Advances in mass transfer and application in transesterification of 5-Hydroxymethylfurfural", *International Journal of Biological Macromolecules*, 170, 583 – 592. (IF - 5.1) https://doi.org/10.1016/j.ijbiomac.2020.12.178.
35. Saikia K., Kumar A.K.R., **Kumar V.V.,** (2021) "Recent advances in biotransformation of 5-Hydroxymethylfurfural: Challenges and future aspects", Journal of Chemical Technology and Biotechnology, (IF – 2.75). https://doi.org/10.1002/jctb.6670
36. Saikia K., Kumar A.K.R., Kumar P.S., Varjani S., George J., Nizar M., Lenin R., **Kumar V.V.,** (2021) "Surfactant aided mycoremediation of soil contaminated with polycyclic aromatic hydrocarbon (PAHs): Progress, limitation and countermeasures", *Journal of Chemical Technology and Biotechnology*, (IF – 2.75). https://doi.org/10.1002/jctb.6721
37. Kumar A.K.R., Saikia K., Ribeiro M. H., Cheng C.K., Purushothaman M., **Kumar V.V.,** (2021) "Application of statistical modeling for the production of highly pure rhamnolipids using magnetic biocatalysts: Evaluating its efficiency as a bioremediation

agent", *Journal of Hazardous Materials*, 412, 125323 (IF – 9.14). https://doi.org/10.1016/j.jhazmat.2021.125323

38. Natarajan R, Banerjee K, Kumar P.S., Somanna T., Tannani D., Arvind V, Raj R.I, Dai-Viet N., Saikia K., **Kumar V.V.,** (2021) "Performance study on adsorptive removal of acetaminophen from wastewater using silica microspheres: Kinetic and Isotherm studies", *Chemosphere*, 272, 129896 (IF – 5.14). https://doi.org/10.1016/j.chemosphere.2021.129896
39. Saikia K., Radhakrishnan H., Kumar A.K.R., Kumar P.S., Gokul S., George J., Kalita S., Subramanian S., **Kumar V.V.,** (2021) "Development of a sustainable route for the production of high fructose syrup from the polyfructan inulin", *IET Nanobiotechnology*, 1–8 (IF – 1.86). https://doi.org/10.1049/nbt2.12031

40. Narayanan, Sanjana, Sameena Anjum, Angana Chaudhuri, and **P. Radha***. "A Sustainable Approach for the Synthesis of Poly (3-hydroxybutyrate-co-3-hydroxyvalerate) Biocomposite by Employing Corncob-Derived Nanocellulose as a Reinforcing Agent." **Journal of Polymers and the Environment, 2021**: 1-16. **(Impact factor: 2.572).**
41. Biocontrol potential; antifungal activity and plant growth promoting activities of endophytic bacteria from *Raphanus sativus* **Lavanya J**, Chanthosh S, Reshma Shrii, Viknesh V, Deepika S, Subhashini sivaji (2021) International Journal of Research in Pharmaceutical Sciences 12(2),1143-1150. DOI: https://doi.org/10.26452/ijrps.v12i2.4646

42. Biocontrol potential; antifungal activity and plant growth promoting activities of endophytic bacteria from Raphanus sativus. Lavanya J, Chanthosh S, Reshma Shrii, Viknesh V, Deepika S, **Subhashini Sivaji** Int. J. Res. Pharm. Sci., 12(2), 1143-1150 (2021).

43. Amala Reddy, Dysregulation of nitric oxide synthases during early and late pathophysiological conditions of diabetes mellitus leads to amassing of microvascular impediment. Journal of Diabetes and Metabolic disorders. Doi- 10.1007/s40200-021-00799-y
44. Amala Reddy, S.Sujatha. Pyrroloquinazoline alkaloids of *Adathoda vasica* attenuates inflammatory response via downregulation of pro inflammatory mediators in LPS stimulated RAW 264.7 macrophages. Bioimpacts 2021; 11(1):15-22.
45. Amin KN, Rajagru P, **Sarkar K**, Ganesh MR, Suzuki T, Ali D, Ramkumar KM. Pharmacological Activation of Nrf2 by Rosolic Acid Attenuates Endoplasmic Reticulum Stress in Endothelial Cells. *Oxidative Medicine and Cellular Longevity*, 2021, Article ID 2732435, ISSN: 1942-0900. https://doi.org/10.1155/2021/2732435
46. Nirmal, L.A., Vishal, R., Bhakthochidan, S.A. **Samuel Jacob**. Cell leakage minimization by immobilization modulation of Chlorella sorokiniana NCIM 5561 and phosphate

removal from wastewater. Int. J. Environ. Sci. Technol. (2021). https://doi.org/10.1007/s13762-021-03260-y

47. Manish Dash, **Kanagaraj Palaniyandi**, Satish Ramalingam, Sahabudeen S, Raja Natesan Sella, Exosomes isolated from two different cell lines using three different isolation techniques show variation in physical and molecular characteristics. BBA Biomembranes, 1863: 2 2021. **Impact factor 3.8. doi:** https://doi.org/ 10.1016/j.bbamem.2020.183490
48. Archana Vishwakarma, Gayathri Rethinavelu, Rathinsabapthi Pasupathi and Mohandass Ramya **(2021)**. "Development of a Multiplex PCR Assay for Detection and Discrimination of Pathogenic and Saprophytic Leptospira in Water". Journal of Pure and Applied Microbiology.
49. Kaliraj, S., Jeyalakshmi, R., Kathiravan, M.K., Madhavan, T., Devi, A **(2021).** Design, molecular docking and biological evaluation of fused thienopyrimidines and quinazoline. *Asian J of Chem.* 33(3), pp. 537–544
50. Patni, A.P., Harishankar, M.K., Joseph, J.P., Sreeshma B, Jayaraj R, Devi A **(2021)**. Comprehending the crosstalk between Notch, Wnt and Hedgehog signaling pathways in oral squamous cell carcinoma - clinical implications. Cell Oncol**.**
51. Santhosh N, Sathya B, Kulkarni SA, Vadivelu A, Devaraju P Sohn H, Madhavan T. **(2021).** "Understanding the influence of lipid bilayers and ligand molecules in determining the conformational dynamics of somatostatin receptor 2" Scientific Reports 11: 7677.
52. Pradeep KY, Kalaivani V, K.Rajapandian, Priyanka C, Deepavalli A, Thilgavathi N, Honglae S, Madhavan T **(2021).** "Antiviral Essential Oil Components Against SARS-CoV-2 in Pre-procedural Mouth Rinses for Dental Settings During COVID-19: A Computational Study" Frontiers in Chemistry.
53. Seema AK , S. Periyar S, Anitha DPM, Madhavan T **(2021)**."In vitro and in silico evaluation of antifungal activity of cassia (*Cinnamomum cassia*) and holy basil (*Ocimum tenuiflorum*) essential oils for the control of anthracnose and crown-rot postharvest diseases of banana fruits" Chemical Papers
54. Ila Joshi, Habeeb Shaik Mohideen, Rasool Abdul Nazeer A **(2021)**. "Meretrix meretrix visceral mass derived peptide inhibits lipopolysaccharide-stimulated responses in RAW264. 7 cells and adult zebrafish model". International Immunopharmacology, 90, pp 107-140

2020

1. Nagaveni, V., Karthikraj, R., Chitumalla, R.K., Bhanuprakash, K., Vairamani, M., Prabhakar, S. Gas-phase basicity and proton affinity measurements of Alzheimer's disease drugs by the extended kinetic method and a theoretical investigation (2020) European Journal of Mass Spectrometry, 26 (6), pp. 388-399.
2. Ashwin, B., Abinaya, B., Prasith, T.P., Chandran, S.V., Yadav, L.R., Vairamani, M., Patil, S., Selvamurugan, N. 3D-poly (lactic acid) scaffolds coated with gelatin and mucic acid for bone tissue engineering (2020) International Journal of Biological Macromolecules, 162, pp. 523-532.
3. Bhooma, V., Nagasathiya, K., Vairamani, M., Parani, M. Identification of synthetic dyes magenta III (new fuchsin) and rhodamine B as common adulterants in commercial saffron (2020) Food Chemistry, 309, art. no. 125793, .
4. Akshad Balde, Abshar Hasan, Ila Joshi and R. A. Nazeer, 2020. Preparation and optimization of chitosan nanoparticles from discarded squilla (Carinosquilla multicarinata) shells for the delivery of anti-inflammatory drug: Diclofenac. Journal of the Air & Waste Management Association, 70:12;1227-1235. (DOI: 10.1080/10962247.2020.1727588).
5. Ila Joshi and Rasool Abdul Nazeer, 2020. EGLLGDVF: A Novel Peptide From Green Mussel Perna viridis Foot Exerts Stability and Anti-Inflammatory Effects on LPS - Stimulated RAW264.7 Cells. Protein and Peptide Letters, 27:9;851-859. (DOI:10.2174/0929866527666200224111832).
6. Peer Mohamed Noorani, K. and Nazeer, R.A., 2020. Enzymatic production of two tri-peptides on ACE-I inhibition and antioxidant activities. International Journal of Peptide Research and Therapeutics, 26:4;2365–2377. (DOI:10.1007/s10989-020-10037-3).
7. Ila Joshi, and Rasool Abdul Nazeer, 2020. Anti-inflammatory potential of novel hexapeptide derived from Meretrix meretrix foot and its functional properties. Amino Acids, 52:10;1391-1401.(DOI: 10.1007/s00726-020-02899-0).
8. Ila Joshi, Janagaraj, K. Peer Mohamed Noorani, K. and Nazeer, R.A., 2020. Isolation and characterization of angiotension I-converting enzyme (ACE-I) inhibition and antioxidant peptide from by-catch shrimp (Oratosquilla woodmasoni) waste. Biocatalysis and Agricultural Biotechnology, 29; 101770. (DOI:10.1016/j.bcab.2020.101770).
9. Aarthi Narayanasamy, Akshad Balde, Prasanna Raghavender, Shashanth D, Joshua Abraham, Ila Joshi, R.A. Nazeer, 2020. Isolation of marine crab (Charybdis natator) leg muscle peptide and its anti-inflammatory effects on macrophage cells. Biocatalysis and Agricultural Biotechnology, 25; 101577 (DOI:10.1016/j.bcab.2020.101577).
10. Sekar Sudhakar, S. Viji Chandran, N. Selvamurugan and Rasool Abdul Nazeer, 2020. Biodistribution and Pharmacokinetics of Thiolated Chitosan Nanoparticles for Oral Delivery of Insulin in vivo. International Journal of Biological Macromolecule, 150: 281-288. (doi.org/10.1016/j.ijbiomac.2020.02.079).

11. Muhammad I., S. Pandian, W. Hopper 2020. Antibacterial and antioxidant activity of p-quinone methide derivative synthesized from 2, 6-di-tert-butylphenol, Chemistry International 6(4): 260-266
12. Sex-Based Differences in the Cytokine Production and Intracellular Signalling Pathways in Patients with Rheumatoid Arthritis Uday P.Pratap, Lalgi Hima, Thangamani Kannan, Chandrashekharan Thyagarajan, Hannah P Priyanka, Ramaswamy Vasanthrekha, Anand Pushparani, Srivasan Thayagarajan, Arch Rheumatol 2020; 35(x);i-xiii doi: 10.46497/ArchRheumatol.2020.7481
13. Age associated decline in neural, endocrine, and immune responses in men and women: Involvement of intracellular signalling pathways Lalgi Hima, Mantavya N Patel, Kannan Thangamani, Shalli Gour, Uday Pratap, Hannah Priyanka, Vasantharekha Ramasamy, Srinivasan Thayagarajan Journal of Neuroimmunology 2020 345:577290. DOI: 10.1016/j.jneuroim.2020.577290
14. Regulation of Runx2 by post-translational modifications in osteoblast differentiation Gomathi K, Akshaya N, Srinaath N, Moorthi A, Selvamurugan N. (2020) Life Sciences 245:117389; Impact Factor: 3.647
15. miR-873-3p targets HDAC4 to stimulate matrix metalloproteinase-13 expression upon parathyroid hormone exposure in rat osteoblasts Malavika D, Shreya S, Raj Priya V, Rohini M, He Z, Partridge NC, Selvamurugan N. (2020) Journal of Cellular Physiology 235: 7996-8009; Impact Factor: 5.546
16. 3D-poly (lactic acid) scaffolds coated with gelatin and mucic acid for bone tissue engineering Ashwin B, Abinaya B, Prasith TP, Chandran SV, Yadav LR, Vairamani M, Patil S, Selvamurugan N. (2020) International journal of biological macromolecules 162: 523-532; Impact Factor: 5.162
17. An osteoinductive effect of phytol on mouse mesenchymal stem cells (C3H10T1/2) towards osteoblasts Sanjeev G, Sidharthan DS, Pranavkrishna S, Pranavadithya S, Abhinandan R, Akshaya RL, Balagangadharan K, Siddabathuni N, Srinivasan S, Selvamurugan N. (2020) Bioorganinc & Medicinal Chemistry Letters 30: 127137; Impact Factor: 2.572
18. The Functional Significance of Endocrine-immune Interactions in Health and Disease Muthusami S, Vidya B, Shankar EM, Vadivelu J, Ramachandran I, Stanley JA, Selvamurugan N. (2020) Current protein and peptide science 21: 52-65; Impact factor: 2.520
19. Temperature- and pH-responsive chitosan-based injectable hydrogels for bone tissue engineering Lavanya K, Chandran SV, Balagangadharan K, Selvamurugan N. (2020) Materials Science and Engineering C 111: 110862; Impact factor: 5.880
20. Nanosheets-incorporated bio-composites containing natural and synthetic polymers/ceramics for bone tissue engineering Adithya SP, Sidharthan DS, Abhinandan

R, Balagangadharan K, Selvamurugan N. (2020) International journal of biological macromolecules 164: 1960-1972; Impact Factor: 5.162

21. Regulation of Breast Cancer Progression by Noncoding RNAs Akshaya RL, Rohini M, Selvamurugan N. (2020) Current Cancer Drug Targets 20: 757-767; Impact Factor: 2.912
22. Nanocomposite chitosan film containing graphene oxide/hydroxyapatite/gold for bone tissue engineering Prakash J, Prema D, Venkataprasanna KS, Balagangadharan K, Selvamurugan N, Venkatasubbu GD. (2020) International journal of biological macromolecules 154: 62-71; Impact Factor: 5.162
23. Biodistribution and pharmacokinetics of thiolated chitosan nanoparticles for oral delivery of insulin in vivo Sudhakar S, Chandran SV, Selvamurugan N, Nazeer RA. (2020) International journal of biological macromolecules 150: 281-288; Impact Factor: 5.162
24. Polycaprolactone/polyvinylpyrrolidone coaxial electrospun fibers containing veratric acid-loaded chitosan nanoparticles for bone regeneration Sruthi R, Balagangadharan K, Selvamurugan N. (2020) Colloids Surface B Biointerfaces 193: 111110; Impact Factor: 4.389
25. An insight into cell-laden 3D-printed constructs for bone tissue engineering Swetha, S., K. Lavanya, R. Sruthi, and Nagarajan Selvamurugan. (2020) Journal of Materials Chemistry B 8: 9836-9862. Impact Factor: 5.344
26. A computational study of non-coding RNAs on the regulation of activating transcription factor 3 in human breast cancer cells R. L. Akshaya, N. Akshaya, N. Selvamurugan (2020) Computational Biology and Chemistry 89: 107386; Impact Factor: 1.850
27. Effect of H4R antagonist N-(2-aminoethyl)-5-Chloro-1H-indole-2 carboxamide in a mouse model of allergic asthma (2020): Gomathi Nagarajan, E. Berla Thangam. Immunological Investigations, 50: 125-138. (IF: 2.511)
28. Jithin SS, Anuradha N, Nisha M, Saleena LM Identifying heat shock response system from the genomic assembly od *Uribacillus thermophilus* LM102 using protein protein interaction network Gene 2020; 737 144449
29. Investigation on photo- induced Mechanistic activity of GO/TiO 2 hybrid nanocomposite against wound pathogens Prakash J, Venkataprasanna KS, Prema D, Debastri, Sahabudeen SM, Devanand V (2020) Toxicology Mechanism and Methods,508-525, 30-7 (I.F.-2.8)
30. Development and behavioural toxicity induced by acrylamide exposure and amelioration using phytochemicals in *Drosophila melanogaster* Swetha S, Rakshika R, Sayooj M, Malini S, Siddhishree S, Shuyash S, Vignesh S, Pallavi D, Sahabudeen SM (2020) Journal of Hazardous Materials. 122533, 394 (I.F.9.1)
31. Photo induced antibacterial activity of CeO2/GO against wound pathogens. Garvit S, Prema D, Venkataprasad KS, Prakash J, Sahabudeen SM, Devanand venkatasubu G (2020) Arabian Journal of Chemistry (I.F.4.7)

32. Exosomes isolated from two different cell lines using three different isolation techniques show variation in physical and molecular chareacteristics ManishD, Palaniyandi K, Satish R, Sahabudeen SM, Raja Ns. (2020) BBA Biomembranes (I.F.3.4)

33. Jayasuriya R, Dhamodharan U, Karan N, Arunkumar A, Rajesh K*, Ramkumar KM*. Role of Nrf2 in MALAT1/ HIF-1α loop on the regulation of angiogenesis in Diabetic foot ulcer. Free Radic Biol Med., 2020; 156: 168-175 (I.F.: 6.17, Citation: 6)

34. Karan N, Bhakkiyalakshmi E, Jayasuriya R, D.V.L. Sarada, Ramkumar KM*. The pivotal role of Nuclear Factor Erythroid 2-Related Factor 2 In Diabetes-Induced Endothelial Dysfunction. Pharmacol Res., 2020; 153: 104601 (I.F.: 5.89, Citation: 13)

35. Goutham V. Ganesh, Ramkumar KM*. Macrophage mediation in normal and diabetic wound healing responses. Inflammation Research, 2020; 69:347–363 (I.F.: 3.17; Citation: 6)

36. Sireesh D, Suganya N, Chatterjee S, Ramkumar KM*. *Gymnema montanum* improves endothelial function by inhibiting endoplasmic reticulum stress through activation of Nrf2 signaling pathway. Asian Pacific Journal of Tropical Biomedicine. 2020; 10(8): 379-386 (IF: 1.90)

37. Chongde Sun, Lei Chen, Chao Zhao, Esra Capanoglu Guven, Paolo Paoli, Jesus Simal-Gandara, Ramkumar KM, Shengpeng Wang, Florina Buleu, Ana Pah, Vladiana Turi, Georgiana Damian, Simona Dragan, Washim Khan, Mingfu Wang, Parsa Dar, Dominique Delmas, Jianbo Xiao, Hui Cao*. Dietary polyphenols as anti-diabetic agents: advances and opportunities. Food Frontiers. 2020; 1: 18–44 (Citation: 25).

38. Paul Victor, Sarada DVL, Ramkumar KM*. Pharmacological Activation of Nrf2 promotes wound healing. European Journal of Pharmacology 2020; 886:173395. (I.F.: 3.04, Citation: 4)

39. Teena R, Dhamodharan U, Daoud Ali, Rajesh K, Ramkumar KM*. Genetic polymorphism of the Nrf2 promoter region (rs35652124) is associated with the risk of Diabetic Foot Ulcers. Oxidative medicine and cellular longevity 2020: 9825028. (I.F.: 5.07; Citation: 3)

40. Kumar G, Ramkumar KM, Baojun Xu. Vitexin Restores Pancreatic β-Cell function and Insulin Signaling through Nrf2 and NF-κB Signaling Pathways. European Journal of Pharmacology 2020; 888:173606 (I.F.: 3.26, Citation: 2)

41. Teena R, Dhamodharan U, Daoud Ali, Rajesh K, Ramkumar KM*. Gene Expression Profiling of Multiple Histone Deacetylases (HDAC) and its Correlation with NRF2-mediated Redox Regulation in the Pathogenesis of Diabetic Foot Ulcers. Biomolecules. 2020;10(10):1466 (I.F.: 4.08, Citation: 2)

42. Jayandra Bushion, Shweta Kailash Pal and Subhashini S., 2020, "Role of electrospun nanofibers in wound dressing efficiency," International Journal of Advanced Research, 8(12), 398-410.
43. Silpa S., Rupachandra S., "Cyclic peptide production from lactic acid bacteria (LAB) and their diverse Applications", Critical Reviews in Food Science and Nutrition (IF - 7.862),https://doi.org/10.1080/10408398.2020.1860900, 2020.
44. Glancis L Raja, C Lite,K. Divya S, W Santosh, S.Barathi "Prenatal bisphenol-A exposure altered exploratory and anxiety-like behaviour and induced non-monotonic, sex-specific changes in the cortical expression of CYP19A1, BDNF and intracellular signaling proteins in F1 rats," Food and Chemical Toxicology, 142, 2020
45. Jaganathan MK, Barathi S "Monocrotophos Based Pesticide Alters the Behavior Response Associated with Oxidative Indices and Transcription of Genes Related to Apoptosis in Adult Zebrafish (*Danio rerio*) Brain," Biomedical and Pharmacology Journal, 142, 2020
46. Jaganathan MK, Barathi S "Mancozeb exposure at sublethal concentration alters the transcription of the genes related to apoptosis in the adult zebrafish (Danio rerio) Brain," Research Journal of Pharmacy and Technology, 13(10), 2020
47. Venkatesan Kotteeswaran, Vidhyutha Srivathsan, Mahima Bhandari, Juanit Thomas E and Trishita Bhattacharya. Characterization of Methotrexate Loaded Fucoidan/Chitosan Nanoparticles. Int. J. Res. Pharm. Sci., 2020, 11 (SPL4), 2644-2654, 2020
48. R.Muthukumar, S. Balasubramanian, Ashish Kapoor, Vijay Vaishampayan and Mihul Gabhane, Detection of adulteration in sunflower oil using paper-based microfluidic lab-on-a-chip devices, 10.1016/j.matpr.2020.03.099
49. Naman Jain, Lily Priyadarshini, Kritika Sharma, Iyappan S, Jaganathan M K, Jai Ganesh R. 2020. Enhancement of Polymeric Poly-(β)-Hydroxy Butyrate (PHB) Production from Alcaligenes Faecalis through the Optimisation Process. International Journal of Research in Pharmaceutical Sciences , 11, 7436-7441
50. **J. Das**, A. Venkat, R. Radhakrishnan, B. Neppolian, M.P. Das*. **Fabrication of silica supported Turkevich silver nanocomposites for efficient photocatalytic performance**. Colloid and Interface Science Communications. 39 (**2020**) 100323. **IF - 2.9** https://www.sciencedirect.com/science/article/abs/pii/S2215038220301035
51. K Seema, N. Santhosh Kumar, R. Veena, P. Velusamy, S. Periyar Selvam, M. Thirumurthy (2020). Computational evaluation of major components from plant essential oils as potent inhibitors of SARS-CoV-2 spike protein. Molecular Structure 1221: 128823.
52. Parthasarathy, S. Vijayakumar, B. Malaikozhundan, M.P.Thangaraj, P. Ekambaram, T. Murugan, P. Velusamy, P. Anbu, B. Vaseeharan (2020). Chitosan-coated silver

nanoparticles promoted antibacterial, antibiofilm, wound-healing of murine macrophages and antiproliferation of human breast cancer MCF7 cells. Polymer Testing. 90; 106675

53. Paul Victor, **Sarada DVL**, Ramkumar KM*(2020). Pharmacological Activation of Nrf2 promotes wound healing. Eur J Pharmacol. 886:173395. https://doi.org/10.1016/j.ejphar.2020.173395

54. Karan N, Bhakkiyalakshmi E, Jayasuriya R, **D.V.L. Sarada**, Ramkumar KM*. The pivotal role of Nuclear Factor Erythroid 2-Related Factor 2 In Diabetes-Induced Endothelial Dysfunction. Pharmacol Res., 2020; 153: 104601 https://doi.org/10.1016/j.phrs.2019.104601

55. Devadass, V., **Raman, P.**, and Gayathri D (2020). Anti-Cancer compounds from terrestrial and marine resources - in silico and experimental studies. *Current computer-aided drug design*, 16: 1. https://doi.org/10.2174/1573409916666200910140801.

56. Nagasathiya Krishnan, Velmurugan Devadasan, and **Pachaiappan Raman**. (2020). Plant-derived alkaloids as anti-viral agents. International Journal of Research in Pharmaceutical Sciences, 11(4), 6174-6182. https://doi.org/10.26452/ijrps.v11i4.3291.

57. Velmurugan, D., **Pachaiappan, R**., and Ramakrishnan, C. (2020). Recent Trends in Drug Design and Discovery. *Current topics in medicinal chemistry*, *20*(19), 1761–1770. https://doi.org/10.2174/1568026620666200622150003. ***Impact Factor: 3.335***

58. Stefi Raju, V., Sarkar, P., **Pachaiappan, R**., Paray, B. A., Al-Sadoon, M. K., and Arockiaraj, J. (2020). Defense involvement of piscidin from striped murrel Channa striatus and its peptides CsRG12 and CsLC11 involvement in an antimicrobial and antibiofilm activity. *Fish & shellfish immunology*, *99*, 368–378. https://doi.org/10.1016/j.fsi.2020.02.027. ***Impact Factor: 3.298***

59. Rakhesh Ramarajan, P.T Ravichandran, **R. Pachaiappan**, and K. Divya Krishnan. (2020) Study on improvement of Permeability Characteristics of Cohessionless Soil using Bioclogging Method, *Journal of Green Engineering,* Vol. 10(5), pp. 2432-2445.

60. Yamini, B., Dhandapani, V. E., **Pachaiappan, R**., Mala, K. K. (2020) COVID-19 and heart failure: sirtuin-1 activation-mediated alleviation. *Current Science; 119(7):1081-1083.* ***Impact Factor: 0.756***

61. Jayarajan, J., Angandoor, S., Vedulla, Sruthi S, Kaliappan G, Ab Rouf, Sivalingam N. Curcumin induces chemosensitization to doxorubicin in Duke's type B coloadenocarcinoma cell line. Mol Biol Rep 47, 7883–7892 (2020).

62. Sruthi S, Sivalingam N. Curcumin induced apoptosis is mediated through oxidative stress in mutated p53 and wild type p53 colon adenocarcinoma cell lines. JBT. 31 August 2020. https://doi.org/10.1002/jbt.22616

63. Radha P, Sanjana Narayanan, Angana Chaudhuri, Sameena Anjum, Deborah Lilly Thomas, Ritwik Pandey, **Ramani Kandasamy***. Synthesis of single cell oil by *Yarrowia lipolytica* MTCC 9520 utilizing slaughterhouse lipid waste for biodiesel production. *Biomass Conversion and Biorefinery* (2020) 1-12. https://doi.org/10.1007/s13399-020-01132-y. (IF: 2.602)

64. K. V. Swathi, R. Muneeswari, **K. Ramani***, G. Sekaran. Biodegradation of petroleum refining industry oil sludge by microbial-assisted biocarrier matrix: process optimization using response surface methodology. *Biodegradation* (4-6) (2020) 385-405 https://doi.org/10.1007/s10532-020-09916-9. (IF: 2.805)

65. P. Radha, Keerthana Prabhu, Anjali Jayakumar, S. Abilash Karthik, **K. Ramani*** Biochemical and kinetic evaluation of lipase and biosurfactant assisted exnovo synthesis of microbial oil for biodiesel production by *Yarrowia lipolytica* utilizing chicken tallow. *Process Biochemistry* 95 (2020) 17–29. https://doi.org/10.1016/j.procbio.2020.05.009 (IF:2.883)

66. Thanmaya Mohan, Noorul Shaheen Sheik Farid, Swathi K V, Sowmya A, **Ramani K*** Sustainable biological system for the removal of high strength ammoniacal nitrogen and organic pollutants in poultry waste processing industrial effluent. *Journal of the Air & Waste Management Association,* 70(12) (2020) 1236–1243 https://doi.org/10.1080/10962247.2020.1731013 (IF: 2.245)

67. P.Radha, Priya Suhazsini, Keerthana Prabhu, Anjali Jayakumar, **Ramani Kandasamy*** Chicken tallow, a renewable source for the production of biosurfactant by *Yarrowia lipolytica* MTCC9520, and its Application in silver nanoparticle synthesis. *Journal of Surfactants and Detergents*, 23 (2020) 119–135 https://doi.org/10.1002/jsde.12357 (IF: 1.450)

68. Kumar A.K.R., Saikia K., Vaithyanathan V.K., Cabana H., **Kumar V.V.,** (2020) Development of efficient and sustainable added-value products from municipal biosolids through an industrially feasible process. *Journal of Cleaner Production*, 266, 121749. (IF – 7.246) https://doi.org/10.1016/j.jclepro.2020.121749

69. Ariste A, Batista-García R.A., **Kumar V.V.,** Folch-Mallol J.L., Jackson S. A., Cabana H, (2020) Mycoremediation of phenols and polycyclic aromatic hydrocarbons from a biorefinery wastewater and concomitant production of lignin modifying enzymes. *Journal of Cleaner Production*, 253, 119810. (IF – 7.246) https://doi.org/10.1016/j.jclepro.2019.119810

70. Vaithyanathan V.K., Ravi S., **Kumar V.V.,** Cabana H, (2020) "Utilization of biosolids for glucose oxidase production: A potential bio-Fenton reagent for advanced oxidation

process for removal of pharmaceutically active compounds", *Journal of Environmental Management*, 271, 110995. https://doi.org/10.1016/j.jenvman.2020.110995 (IF – 5.647)

71. Rathankumar A.K., Saikia K., Batista-García R.A., Cabana H., **Kumar V.V.,** (2020) Effect of soil organic matter (SOM) on the degradation of polycyclic aromatic hydrocarbons using *Pleurotus dryinus* IBB 903-A microcosm study. *Journal of Environmental Management*, 260, 110153. (IF – 5.647) https://doi.org/10.1016/j.jenvman.2020.110153
72. **Kumar V.V.,** Kandasamy R., Jacob S., (2020) Preface for the special grouping of select papers presented at the international conference, "Sustainable technologies for industrial hazardous waste management and bioenergy". *Journal of the Air & Waste Management Association,* 70 (12), 1217-1217. (IF – 2.245)
73. Shobana R., Lonappan L., Touahar I., Fonteneau E., **Kumar V. V.**, Cabana H. (2020) "Evaluation of bio-Fenton oxidation approach for the remediation of trichloroethylene from aqueous solutions", *Journal of Environmental Management*, 270, 110899. (IF – 5.647) https://doi.org/10.1016/j.jenvman.2020.110899
74. Kumar A.K.R., Saikia K., Neeraj G., Cabana H., **Kumar V.V.,** (2020) Remediation of bio-refinery wastewater containing organic and inorganic toxic pollutants by adsorption onto chitosan-based magnetic nanosorbent. *Water Quality Research Journal*, 55(1), 36 – 51. (IF – 0.643) https://doi.org/10.2166/wqrj.2019.003
75. Saikia K., Rathankumar A.K., Ramachadran K., Sridharan H., Bohra P., Bharadwaj N., Vyas A., **Kumar V.V.,** (2020) A comparative study on the chemo-enzymatic upgrading of renewable biomass to 5-Hydroxymethylfurfural. *Journal of the Air & Waste Management Association*, 70 (12), 1218-1226. https://doi.org/10.1080/10962247.2020.1723739 (IF – 2.245)
76. Saikia, K., Rathankumar, A.K., Varghese, B.A., Kalita S., Sivanesan S., Swarnalatha S., **Kumar V.V.,** (2020) Magnetically assisted commercially attractive chemo-enzymatic route for the production of 5-hydroxymethylfurfural from inulin. *Biomass Conversion and Biorefinery*, https://doi.org/10.1007/s13399-020-00622-3 (IF – 2.6)
77. Kumar A.K.R., Saikia K., Batista-García R.A., Folch-Mallol J.L., Somdutt R., Varshini K., **Kumar V.V.,** (2020) Simultaneous pretreatment and saccharification process for fermentable sugars production from *Casuarina equisetifolia* biomass using transgenic *Trichoderma atroviride. Journal of the Air & Waste Management Association,* 70 (12), 1244-1251. (IF – 2.245) https://doi.org/10.1080/10962247.2020.1749730
78. Saikia K., Kumar A.K.R., Vishnu D., Folch-Mallol J.L., Cabana H., **Kumar V.V.,** (2020) Development of a magnetically separable co-immobilized laccase and versatile peroxidase system for the conversion of lignocellulosic biomass to vanillin. *Journal of the Air & Waste Management Association*, 70 (12), 1252-1259. (IF – 2.245) https://doi.org/10.1080/10962247.2020.1760958
79. Kumar A.K.R., Saikia K., **Kumar V.V.,** (2020) "Rhamnolipid-assisted mycoremediation of polycyclic aromatic hydrocarbons by *Trametes hirsuta* coupled with enhanced

lignolytic enzyme production", *Journal of the Air & Waste Management Association,* 70 (12), 1260-1267. (IF – 2.245) https://doi.org/10.1080/10962247.2020.179044

80. González-Abradeloa D., Pérez-Llanoa Y, Folch-Mallol J.L., Aranda E., **Kumar V.V.,** Cabana H, Batista-García R.A., (2020) Transcriptomic analysis of polycyclic aromatic hydrocarbon degradation by the halophillic fungus *Aspergillus sydowii* at hypersaline conditions", *Environmental Microbiology,* https://doi.org/10.1111/1462-2920.15166 (IF – 4.96)
81. Carolin C.F., **Kumar V. V.,** Kumar P.S., (2020) "A review on analytical techniques of pharmaceutical residues and its removal from wastewater using membrane bioreactor", *Environmental Chemistry Letters,* https://doi.org/10.1007/s10311-020-01068-9 (IF – 5.12)
82. Joshiba G.J., Kumar P.S., Christopher F.C., **Kumar V. V.,** (2020) "Fabrication of novel amine-functionalized magnetic silica nanoparticles for toxic metals: kinetic and isotherm modeling" *Environmental Science and Pollution Research,* 27, 27202-27210. (IF – 3.01)
83. Saikia K., Kumar A.K.R., **Kumar V.V.,** Cabana H., Vaithyanathan V.K., (2020) "Amino-functionalised mesoporous silica microspheres for immobilization of *Candida antarctica* lipase B–application towards greener production of 2, 5-furandicarboxylic acid", IET Nanobiotechnology, 14(8), 732 – 738. (IF - 2.24) https://doi.org/10.1049/iet-nbt.2020.0021
84. Kumar V.V., Saikia K., Kumar A.K.R., **Kumar V.V.,** Cabana H., Vaithyanathan V.K., (2020) "Immobilized Laccase: A Promising Bioremediation Tool for the Removal of Organic Contaminants in Wastewater", Laccases in Bioremediation and Waste Valorisation, 115-145.
85. Ramya Devi KT, Sivalingam N. Cichorium intybus attenuates Streptozotocin-induced pancreatic β-cell damage by inhibiting NF-κB activation and oxidative stress. J Appl Biomed X:X | DOI: 10.32725/jab.2020.010. Impact factor: 1.68
86. D V Sridevi Ramya Devi K T Narmadha JayakumarpH dependent synthesis of TiO2 nanoparticles exerts its effect on bacterial growth inhibition and osteoblasts proliferation August 2020 AIP Advances 10(9) DOI: 10.1063/5.0020029 Impact factor: 1.579

87. **Radha, P.,** Sanjana Narayanan, Angana Chaudhuri, Sameena Anjum, Deborah Lilly Thomas, Ritwik Pandey, and K. Ramani. "Synthesis of single-cell oil by Yarrowia lipolytica MTCC 9520 utilizing slaughterhouse lipid waste for biodiesel production." **Biomass Conversion and Biorefinery, 2020:** 1-12. **(Impact Factor: 2.602).**

88. **Radha, P**., Keerthana Prabhu, Anjali Jayakumar, S. AbilashKarthik, and K. Ramani. "Biochemical and kinetic evaluation of lipase and biosurfactant assisted ex novo synthesis of microbial oil for biodiesel production by Yarrowia lipolytica utilizing chicken tallow." **Process Biochemistry,** Volume 95, **August 2020**, Pages 17-29 (2020). **(Impact factor: 2.952).**

89. Suhazsini, Priya, Rukmani Keshav, Sanjana Narayanan, Angana Chaudhuri, and **P. Radha***. "A Study on the Synthesis of Poly (3-hydroxybutyrate-co-3-hydroxyvalerate) by Bacillus megaterium Utilizing Cheese Whey Permeate." **Journal of Polymers and the Environment, 2020:** 1-16. **(Impact factor: 2.76)**

90. Anjali Jayakumar, Keerthana Prabhu, Lajja Shah, **P. Radha***. "Biologically and environmentally benign approach for PHB-Silver Nanocomposite synthesis and its characterization". **Polymer Testing,** 81(2020), 106197, **(Impact factor: 3.275).**

91. Fathima Sameena M, **P. Radha***. "Fish waste gelatin: a renewable substrate for production of gelatinase by S*erratia marcescens* MF599353", **Journal of Solid Waste Management and Technology. 2020. (Cite Score:0.5)**
92. An in silico Workflow that Yields Experimentally Comparable Inhibitors for Human Dihydroorotate Dehydrogenase Poorani B, Sucharita M, **Swaminathan P**,(2020), Current computer-aided drug design 16 (3), 340-350.**(IF:0.935**)
93. Molecular modeling approach to identify inhibitors of Rv2004c (rough morphology and virulent strain gene), a DosR (dormancy survival regulator) regulon protein from Mycobacterium tuberculosis VG Shanmuga Priya, **Swaminathan P,** V Bhandare, UM Muddapur,(2020), Journal of Biomolecular Structure and Dynamics, 1-16.**(IF:4.5)**
94. Advances in Pharmacophore Modeling and Its Role in Drug Designing. **Swaminathan P.** (2020) In: Singh D.B. (eds) Computer-Aided Drug Design, Springer, Singapore.
95. Aparna Kalyanaraman**#**, **Dhanavathy Gnanasampanthapandian#**, Prasad Shanmughan, Puneet Kishore, Satish Ramalingam, Rathnaswami Arunachalam, Selvaraj Jayaraman, Ilango Kaliappan, Ganesh Munuswamy-Ramanujam, Ilangovan Ramachandran, Yuvaraj Sambandam, Muralidharan Anbalagan, Parthasarathy Chandrakesan, Kanagaraj Palaniyandi**.** Tamoxifen induces stem-like phenotypes and multidrug resistance by altering epigenetic regulators in ERα+ breast cancer cells. Stem Cell Investigation, 7(20), 1-12, 2020. **[#First two authors have contributed equally]**
96. Lalgi Hima, Mantavya N. Patel, Thangamani Kannan, Shaili Gour, Uday P. Pratap, Hannah P. Priyanka, **Ramasamy Vasantharekha**, Srinivasan ThyagaRajan. Age-associated decline in neural, endocrine, and immune responses in men and women: Involvement of intracellular signaling pathways, Journal of Neuroimmunology, Volume345,2020,577290,ISSN01655728,https://doi.org/10.1016/j.jneuroim.2020.577290
97. Pratap U, Hima L, Kannan T, Thyagarajan C, Priyanka H, **Vasantharekha R**, et al. Sex-Based Differences in the Cytokine Production and Intracellular Signaling Pathways in Patients With Rheumatoid Arthritis. Arch Rheumatol 2020;35(4):545-557.
98. Naman Jain; Lily Priyadarshini; Kritika Sharma; Iyappan S; **Jaganathan M K**; Jai Ganesh R. **2020**. Enhancement of Polymeric Poly-(β)-Hydroxy Butyrate (PHB) Production from Alcaligenes Faecalis through the Optimisation Process. ijrps , 11, 7436-7441.

99. **Jaganathan.M. K.,** Barathi.S., **2020**. Mancozeb exposure at sublethal concentration alters the transcription of the genes related to apoptosis in the adult zebrafish (*Danio rerio*) brain. Res J Pharm Technol 13, 4801–4804.
100. Napa, Delhiraj., **Jaganathan. M.K.,** A.R, Vijayakumar. **2020**. Evaluation of the hepatoprotective effect of ethanolic extract of *Physali ixocarpa* against rifampicin-isoniazid induced hepatotoxicity in Wistar rats. International Research Journal of Pharmacy. 11. 17-22. **(Non – SCOPUS)**
101. **Jaganathan, M.K.,** Seetharaman, B., **2020**. Monocrotophos Based Pesticide Alters the Behavior Response Associated with Oxidative Indices and Transcription of Genes Related to Apoptosis in Adult Zebrafish (Danio rerio) Brain. Biomed Pharmacol J 13, 1291–1304.
102. Thomas KA, De S, Sultana N, **Sarkar K**, Datta S. Design of Ti composite with bioactive surface for dental implant. *Materials and Manufacturing Processes*, 35, 643–651, 2020. Impact factor: 3.35. ISSN: 1042-6914. https://doi.org/10.1080/10426914.2020.1711927
103. Kumar DC, Ananthan A, Joydev A, Kumar P, **Sarkar K**, Senthil Andavan GT, Vadapalli C. Functionalized Iron Oxide Nanoparticles conjugate of Multi-Anchored Schiff's Base Inorganic Heterocyclic Pendant Groups: Cytotoxicity Studies. *Applied Surface Science*, 501, 143963, 2020. Impact factor: 5.155. ISSN: 0169-4332. https://doi.org/10.1016/j.apsusc.2019.143963
104. Balakrishnan Arutselvy, Gunasekaran Rajeswari, **Samuel Jacob**. Sequential valorization strategies for dairy wastewater and water hyacinth to produce fuel and fertilizer. Journal of Food Process Engineering, e13585 (2020)
105. Gunasekaran Rajeswari, **Samuel Jacob**. Saccharolysis of laccase delignified *Aloe vera* leaf rind and fermentation through free and immobilized yeast for ethanol production. Journal of Food Process Engineering, e13514 (2020)
106. Rajiv Chandra Rajak, **Samuel Jacob,** Beom Soo Kim. A holistic zero waste biorefinery approach for macroalgal biomass utilization: A review. Science of The Total Environment, 716: 137067. https://doi.org/10.1016/j.scitotenv.2020.137067. (2020)
107. Debosmita Chakraborty, Nayanika Sarkar, Indrani Biswas, **Samuel Jacob** (2019). Molecular aspects of prokaryotic and eukaryotic cellulases and their modulation for potential application in biofuel production. In: Genetic and Metabolic Engineering for Improved Biofuel Production from Lignocellulosic Biomass (Ref ID: B978-0-12-817953-6.00006-3), Arindam Kuila and Vinay Sharma (Eds.), Elseiver. (2020).
108. **Samuel Jacob**, Upadrasta L and Banerjee R. Bottlenecks in biomethane production from agro-industrial wastes through anaerobic digestion", Practices and Perspectives in Sustainable Bioenergy: *A Systems Thinking Approach* by Madhumi Mitra and Abhijit Nagchaudhuri (Eds), Springer Publishers. (**2020)**
109. Aparna Kalyanaraman[#], Dhanavathy Gnanasampanthapandian[#], Prasad Shanmughan, Puneet Kishore, Satish Ramalingam, Rathnaswami Arunachalam, Selvaraj Jayaraman, Ilango Kaliappan, Ganesh Munuswamy-Ramanujam, Ilangovan Ramachandran, Yuvaraj Sambandam, Muralidharan Anbalagan, Parthasarathy Chandrakesan, **Kanagaraj**

Palaniyandi, Tamoxifen induces stem-like phenotypes and multidrug resistance by altering epigenetic regulators in ERα+ breast cancer cells, Stem Cell Investigation, 7: 20: 2020 doi: 10.21037/sci-2020-020 Impact factor 1.9 [# Equally contributed].

110. Selvaraj Jayaraman, Ponnulakshmi Rajagopal, Vijayalakshmi Periyasamy, **Kanagaraj Palaniyandi**, R. Ileng Kumaran, James M. Mathew, Sundaravadivel Balasubramanian, Yuvaraj Sambandam. Signaling pathways influencing stem cell self-renewal and differentiation - Special emphasis on cardiomyocytes, Stem cells and Aging. Editor Surajit Pathak, Elsevier Publications, 2020.

111. Kavyasudha C., Joseph J.P., Jayaraj R., Pillai A.A., Devi A**. (2020)** "Conventional and Emerging Markers in Stem Cell Isolation and Characterization". Adv Exp Med Biol**.**

112. Kumar, R., Swapna Geetanjali, A., Krishnareddy, M., P. K. Jaiwal & Bikash Mandal **(2020).** "Standardization of Regeneration, *Agrobacterium*-Mediated Transformation, and Introduction of Nucleocapsid Gene of Watermelon Bud Necrosis Virus in Watermelon". Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. **90,** 623–630

113. Singh P, Charles S, Madhavan T, Ramanujame GM, N.T.Saraswathi ,Arasug MV, Al-Dhabig NA ,Arshadh A , Arockiarajj, Mala K **(2020).** "Pharmacologic downregulation of protein arginine methyltransferase1 expression 2 by adenosine dialdehyde increases cell senescence in breast cancer" European Journal of Pharmacology 891.

114. Santhosh N, Sathya B, Sohn H, Madhavan T (2020). "Molecular-Level Understanding of the Somatostatin Receptor 1 (SSTR1)−Ligand Binding: A Structural Biology Study Based on Computational Methods" ACS Omega (2020)

115. Rudra Mishra , Pasupathi Rathinasabapathi **(2020).** "Antibiotics Susceptibility Profile and Synergistic Effects of Flavonoids with Antibiotics against Resistant Staphylococcus aureus from Asymptomatic Individuals". Journal of Pure and Applied Microbiology, 14(4):2669-2676,

116. Venkatesh Varsha, Sitaraman Aishwarya, Sarma Murchana, Gattuboyena Naveen, Mohandass Ramya, Pasupathi Rathinasabapathi **(2020).** "Correction pen based paper fluidic device for the detection of multiple gene targets of Leptospira using Loop Mediated Isothermal Amplification". Journal of Microbiological Methods

117. Seema AK, Santhosh N, Veena R, Velusamy, S. Periyar S, Madhavan T **(2020)**."Computational evaluation of major components from plant essential oils as potent inhibitors of SARS-CoV-2 spike protein" Journal of Molecular structure 12221.

118. Sewali Ghosh, Shaik Habeeb Mohideen **(2020)** "Annonaceous Acetogenin Annonin – I Inhibits HCT 116 Colorectal Cancer Cells Proliferation by Acting on Mitochondrial NADH Dehydrogenase-1". Journal of Bioscience Biotechnology Research Communications, 13 (2), pp 500-507

119. Dharani SR, Srinivasan R, Sarath R, Ramya M. **(2020).** "Recent progress on engineering microbial alginate lyases towards their versatile role in biotechnological applications". Folia Microbiologica. Dec;65(6):937-954. DOI: 10.1007/s12223-020-00802-8. PMID: 32500437

120. Mary Sanitha, Anwar Aliya Fathima, Andrew C. Tolonen & Mohandass Ramya **(2020)**. "Engineering *Clostridium acetobutylicum* to utilize cellulose by heterologous expression of a family 5 cellulase." Biofuels, DOI: 10.1080/17597269.2020.1746123

121. Dharshini, R. S, Fathima, A. A, Dharani, S. R, & Ramya, M. **(2020)**. "Utilization of Alginate from Brown Macroalgae for Ethanol Production by Clostridium phytofermentans". Applied biochemistry and microbiology, *56*, 173-178. doi: 10.1134/S0003683820020040.

122. Matija Stanic, Neil MN Hickerson, Rex Arunraj, Marcus A Samuel (2020). Gene-editing of the strigolactone receptor *BnD14* confers promising shoot architectural changes in *Brassica napus* (canola). Journal of Plant biotechnology

123. Rex Arunraj, Logan Skori, Abhinandan Kumar, Neil MN Hickerson, Naskar Shoma, Marcus A Samuel (2020). "Spatial regulation of alpha-galactosidase activity and its influence on raffinose family oligosaccharides during seed maturation and germination in *Cicer arietinum*". Plant signalling & behaviour 15(8).

124. Pradeep Kumar Yadalam, Anand Thiyagaraj (2020), " An Immune Interaction Network driven approach for identifying biomarkers for Peri-implantitis". Clinical Oral Implants Research 31(S20).

2019

1. Chandran, S.V., Vairamani, M., Selvamurugan, N.Osteostimulatory effect of biocomposite scaffold containing phytomolecule diosmin by Integrin/FAK/ERK signaling pathway in mouse mesenchymal stem cells (2019) Scientific Reports, 9 (1), art. no. 11900, .
2. Shanmugam, H., Dharun, V.N., Biswal, B.K., Chandran, S.V., Vairamani, M., Selvamurugan, N. Osteogenic stimulatory effect of heraclenin purified from bael in mouse mesenchymal stem cells in vitro (2019) Chemico-Biological Interactions, 310, art. no. 108750, .
3. Rohini, M., Arumugam, B., Vairamani, M., Selvamurugan, N. Stimulation of ATF3 interaction with Smad4 via TGF-β1 for matrix metalloproteinase 13 gene activation in human breast cancer cells (2019) International Journal of Biological Macromolecules, 134, pp. 954-961.
4. Balagangadharan, K., Trivedi, R., Vairamani, M., Selvamurugan, N. Sinapic acid-loaded chitosan nanoparticles in polycaprolactone electrospun fibers for bone regeneration in vitro and in vivo (2019) Carbohydrate Polymers, 216, pp. 1-16.
5. Julius A., W. Hopper 2019. A non-invasive, multi-target approach to treat diabetic retinopathy, Biomedicine & Pharmacotherapy, 109: 708-715. DOI:org/10.1016/j.biopha.2018.10.185 (IF: 4.55)
6. Ariya S.S., B. Joseph, S. Vijayasri, W. Hopper 2019. Computational analysis of compounds from *Ocimum sanctum* for anticancer activity against oral squamous cell carcinoma, Asian Journal of Pharmaceutical and Clinical Research 12(1): 168-172.
7. Virgin coconut oil supplementation in diet modulates immunity mediated through survival signalling pathways in rats Lalgi Hima, Uday Pratap, Sunil Karrunathi, Kishore Aravind Ravichandranan, Vasantharekha Ramasamy, Srinivasan Thyagarajan Journal of Complementary and Integrative Medicine 2019 17(1) DOI: 10.1515/jcim-2019-0114
8. Regulation of Immunity by Estrogen Through Sympathetic Nervous System in Aging Vasantharekha Ramasamy, Lalgi Hima, Prabhu Thandapani, Sanjana Kumaraguru, Amritha Priya Ramesh, Poornima Ananthasubramanian, Srinivasan Thyagarajan Turkish Journal of Immunology, 2019, DOI: 10.25002/tji.2019.1013
9. TGF-β1-stimulation of matrix metalloproteinase-13 expression by down-regulation of miR-203a-5p in rat osteoblasts. Saiganesh S, Saathvika R, Arumugam B, Vishal M, Udhaya V, Ilangovan R, Selvamurugan N. (2019). International journal of biological macromolecules 132: 541-549; Impact Factor: 5.162
10. Parathyroid hormone-stimulation of Runx2 during osteoblast differentiation via the regulation of lnc-SUPT3H-1:16 (RUNX2-AS1:32) and miR-6797-5p Arumugam B, Vishal M, Shreya S, Malavika D, Rajpriya V, He Z, Partridge NC, Selvamurugan N. (2019). Biochimie, 158: 43-52; Impact Factor: 3.413
11. Stimulation of ATF3 interaction with Smad4 via TGF-β1 for matrix metalloproteinase 13 gene activation in human breast cancer cells Rohini M, Arumugam B, Vairamani

M, Selvamurugan N. (2019) International journal of biological macromolecules 134:954-961; Impact Factor: 5.162

12. Chitosan and gelatin-based electrospun fibers for bone tissue engineering Ranganathan S, Balagangadharan K, Selvamurugan N. (2019) International journal of biological macromolecules 133:354-364; Impact Factor: 5.162
13. Regulation of histone deacetylases by microRNAs in bone Shreya S, Malavika D, Priya VR, Selvamurugan N. (2019) Current protein and peptide science 20:356-367; Impact Factor: 2.520
14. Sinapic acid-loaded chitosan nanoparticles in polycaprolactone electrospun fibers for bone regeneration in vitro and in vivo Balagangadharan K, Trivedi R, Vairamani M, Selvamurugan N. (2019) Carbohydrate Polymers 216:1-16; Impact Factor: 7.182
15. Osteogenic potential of zingerone, a phenolic compound in mouse mesenchymal stem cells Srinaath N, Balagangadharan K, Pooja V, Paarkavi U, Trishla A, Selvamurugan N. (2019) Biofactors 45: 575-582; Impact Factor: 4.374
16. Osteogenic stimulatory effect of heraclenin purified from bael in mouse mesenchymal stem cells Shanmugam H, Dharun VN, Biswal BK, Chandran SV, Vairamani M, Selvamurugan N. (2019) Chemico-Biological Interactions 310: 108750; Impact Factor: 3.723
17. Regulation of Runx2 by microRNAs in osteoblast differentiation Narayanan A, Srinaath N, Rohini M, Selvamurugan N. (2019) Life Sciences 232: 116676; Impact Factor: 3.647
18. Osteostimulatory effect of biocomposite scaffold containing phytomolecule diosmin by Integrin/FAK/ERK signaling pathway in mouse mesenchymal stem cells Chandran SV, Vairamani M, Selvamurugan N. (2019) Scientific Reports 9: 11900; Impact Factor: 4.525
19. Chitosan in surface modification for bone tissue engineering applications Abinaya B, Prasith TP, Ashwin B, Viji Chandran S, Selvamurugan N. (2019) Biotechnology Journal 14:e1900171; Impact Factor: 3.912.
20. IL-33 mediated amplification of allergic response in human mast cells (2019): Shahana Parveen, Dhivya Bharathi Saravanan, Rohit Saluja, Berla Thangam E. J Recept Signal Transduct Res. 22:1-9. (IF: 2.2)
21. NLRP3 Inflammasome Mediated Production of Th1/Th17 Cytokines in Response to inflammatory Stimulants in Innate Immune Cells (2019): Amrithavarshini K, Akshaya Keerthi Saikumar , Manigandan V , Vishnu Raghuram , Shahana Parveen, Sugitharini V, Rohit Saluja, E.Berla Thangam. Turk J Immunol, 7(Supplement 1):S77−S84. (IF: 0.5)
22. Synthesis of Stable Positively and Negatively Charged Cerium Oxide Nanoparticles: An Investigation of Role of Surface Charge on Growth and Development of *Drosophila Melanogaster* Divya P, Vignesh S, Omer S, Sundaram G, Sahabudeen SM, Anandhakumar S (2019) ACS Omega, 104- 113, 4 (*IF – 2.3).*
23. Evaluation of hydroxyapatite nanoparticles – induced in vivo toxicity in *Drosophila melanogaster* Pallavi D, Vignesh S, Harshana G, Barathan G, ArunKumar S, G.

Devanand V, Ichihara S, *Ichihara G*, Sahabudeen SM (2019). Applied surface Science, 568-577,484 (I.F.6.1).

24. *Drosophila melanogaster* as in vivo model to study the potential toxicity of cerium oxide nanoparticles Vignesh S, Pallavi D, Ajay Kumar, G. Devanand V, Ichihara S, *Ichihara G*, Sahabudeen SM, (2019) Applied surface Science, 70-80, 490 (I.F.6.1).

25. Mechanism of Inhibition of Graphene Oxide/Zinc Oxide nanocomposite against wound infection causing pathogens D. Prema, J. Prakash, S. Vignesh, Pandiyarasan Veluchamy, C. Ramachandran, Debashree Banita Samal, Deog-Hwan Oh, S. Sahabudeen, G. Devanand Venkatasubbu (2019) Applied Nanoscience, 827-849, 10 (3). (I.F.-2.8)

26. Fabrication of Chitosan/PVA/GO/CuO patch for potential wound healing application K. S. Venkataprasanna, J. Prakash, S. Vignesh, G. Bharath, Manigandan Venkatesan, Fawzi Banat, S. Sahabudeen, Saravanan Ramachandran, G. Devanand Venkatasubbu (2019) International Journal of Biological Macromolecules 744-762, 143 (I.F.5.1)

27. Dhamodharan U, Karan A, Sireesh D, Vaishnavi A, Somasundar A, Rajesh K, Ramkumar KM*. Tissue-specific role of Nrf2 in the treatment of diabetic foot ulcers during hyperbaric oxygen therapy. Free Radical Biology and Medicine, 2019; 138:53-62. (I.F.: 6.17, Citation: 17)

28. Umapathy D, Balashanmugam P, Vanniya Subramanyam P, Rajan T, Natarajan P, Krishnamoorthy E, Viswanathan V, Ramkumar KM*. Association of SNP rs7181866 in the nuclear respiratory factor-2 beta subunit encoding GABPB1 gene with obesity and type-2 diabetes mellitus in South Indian population. International Journal of Biological Macromolecules, 2019; 132:606-614. (I.F.: 5.16, Citation: 1)

29. Dornadula S, Thiruppathi S, Palanisamy R, Umapathy D, Suzuki T, Ramkumar KM*. Differential proteomic profiling identifies novel molecular targets of pterostilbene against experimental diabetes. Journal of Cellular Physiology, 2019;234(3):1996-2012 (I.F.: 5.54; Citation: 5)

30. Dhamodharan U, Teena R, Vimal Kumar R, Changam SS, Ramkumar KM*, Rajesh K. Circulatory levels of B-cell activating factor of the TNF family in patients with diabetic foot ulcer: Association with disease progression. Wound Repair and Regeneration, 2019; 27(5):442-449 (I.F.: 2.47; Citation: 4)

31. Amin KN, Umapathy D, Anandharaj A, Ravichandran J, Sasikumar CS, Chandra SKR, Kesavan R, Ramkumar KM*. miR-23c regulates wound healing by targeting stromal cell-derived factor-1α (SDF-1α/CXCL12) among patients with diabetic foot ulcer. Microvascular Research. 2019; 127:103924 (I.F.: 2.73; Citation: 8)

32. Namrata UD, Malavika SN, Aparna Singh, Dhamodharan U, Ramkumar KM*. Role of Cytokines on Fetal Immune Programming. Turkish Journal of Immunology, 2019; 7(1): S108−S118 (I.F.: 0.5)

33. SubbaRao V. Madhunapantula, Rashmi Rajappa, Sireesh D, Magesh B, Ramkumar KM, Suriyanarayanan S. Treatment with naringenin elevates the activity of transcription factor Nrf2 to protect pancreatic β-cells from Streptozotocin-induced diabetes in vitro and in vivo. Frontiers in Pharmacology, 2019;9:1562-70. (I.F.: 3.83, Citation: 16)

34. Paridhy Vanniya S, Ramkumar KM, Srikumari Srisailapathy CR. Immune-mediated sensorineural hearing loss: pathomechanisms and therapeutic strategies. Turkish Journal of Immunology, 2019;7(1): S92−S98 (I.F.: 0.5).

35. Narayanan Santhanam , Aravind Arivazhagan , Krithiga Mohan Kennedy, Subhashini Swaminathan, 2019, "Silver nanoparticles synthesized from *Aloe barbadensis* leaf extract induces G0/G1 cell cycle arrest in THP-1 acute monocytic leukemia cells," Asian Journal of Pharmacy and Pharmacology, 5(4):701-713. Impact Factor: 0.166
36. Porkodi S., Davina Joann M., Jagadeeshwari S., and Rupachandra S., "Evaluation of Anti-inflammatory Efficacy of RA-V: a Natural Cyclopeptide", Applied Biochemistry and Biotechnology,(IF- 2.277), doi.org/10.1007/s12010-019-03124-9, 1-13, 2019
37. Shruthi Chandra, Rupachandra. S., Porkodi, S., Joann Davina M., .and Jagadeeshwari, S., "Antiproliferative Activity of Two Protein Fractions from the Seeds of *Momordica dioica* (Cucurbitaceae family)", Journal of Biologically Active Products from Nature(Scopus indexed), 9(4), 311-319, 2019.
38. Luzeena R, G., Subhashree, K., Lite, C., Santosh, W., Barathi, S "Transient exposure of methylparaben to zebrafish (*Daniorerio*) embryos altered cortisol levels, acetylcholinesterase activity and induced anxiety-like behavior," Gen Comp Endocrinol. 279(1), 2019
39. Lite C, Ahmed SSSJ, Santosh W, Barathi, S "Prenatal exposure to bisphenol-A altered miRNA-224 and protein expression of aromatase in ovarian granulosa cells concomitant with elevated serum estradiol levels in F1 adult offspring," J Biochem Mol Toxicol, 33(6), 2019
40. Raviteja Chavata, Sumathy Datchanamurthy and Venkatesan Kotteeswaran. Biofabrication of silver nanoparticles from aqueous leaf extract of Leucas aspera and their anticancer activity on human cervical cancer cells. Advances in Natural Sciences: Nanoscience and Nanotechnology. 10. 045008, 2019.
41. Jaiganesh, R., Tattwaprakash, C., Rahul Kumar, G., Iyappan, S., , 2019.Characterization and optimization of process parameter for maximum poly (-β-) hydroxyl butyrate production by bacteria isolated from the soil. Research Journal of Pharmacy and Technology, 2019, 12(10), pp. 4926–4930

42. Kannan Kamala Pitchiah Sivaperumal Richard Thilagaraj Elayaperumal Natarajan, "Bioremediation of Sr^{2+} ion radionuclide by using marine *Streptomyces sp.* CuOff24 extracellular polymeric substances" Journal of Chemical Technology and Biotechnology, (2019).

43. Record of the aquatic leech *Poecelobdella manilensis* from Porur Lake, Chennai, , Invertebrate Conservation & Information Network of South Asia (ICINSA), Pg.172-173, (2019).

44. W. Richard Thilagaraj, P. Sivaperumal K. Kamala C. Gopalakrishnan R. Rajaram, A Chapter on "Applicability of Agro Waste for Remediation of Chemical Contaminants in Water", (2019).

45. ANTIOXIDANT AND ANTIMICROBIAL ACTIVITIES OF CITRUS LEMON PEELS ENCAPSULATED IN PVA. Anjalie K Nair, Madhura Mukherjee, Saptaki Nag, M Pandimadevi Carpathian Journal of Food Science & Technology, 2019, 11(2)

46. S. Vijayakumar, B. Vaseeharan, R. Sudhakaran, J. Jeyakandan, P. Ramasamy, A. Sonawane, A. Padhi, P. Velusamy, P. Anbu, C. Faggio (2019). Bioinspired Zinc Oxide Nanoparticles Using Lycopersicon esculentum for Antimicrobial and Anticancer Applications. Journal of Cluster Science. Vol. 30:1465–1479.
47. S.C.B. Gopinath, L. Wang, R.D.A.A. Rajapaksha, P. Anbu, P. Velusamy, K. Pandian, M.K. Md Arshad, T. Lakshmipriya, C-G. Lee (2019). Photovoltaic and Antimicrobial Potentials of Electrodeposited Copper Nanoparticle. Biochemical Engineering Journal. Vol. 142, 97-104.
48. Subhashini, S and **Sarada, DVL** (2019). *Scenedesnus rotundus* isolated from the petroleum effluent employs alternate mechanisms of tolerance to elevated levels of Cadmium and Zinc. Scientific Reports 9 8485 https://doi.org/10.1038/s41598-019-44374-1
49. S. Hepziba Suganthi, K.V. Swathi, Raagini Biswas, Sneha Basker, **K.Ramani*** Co-immobilization of multiple enzymes onto surface-functionalized magnetic nanoparticle for the simultaneous hydrolysis of multiple substrates containing industrial wastes. *Applied Nanoscience*, 9(7) (2019) 1439–1457 https://doi.org/10.1080/10962247.2020.1731013 (IF: 3.198)
50. Ramadoss DP, **Sivalingam N.** Vanillin extracted from Proso and Barnyard millets induce apoptotic cell death in HT-29 human colon cancer cell line. Nutr Cancer. 2019 Oct 11:1-16. doi: 10.1080/01635581.2019.1672763. [Epub ahead of print]. **Impact factor : 2.02**
51. **Ramani Kandasmy***, Muneeswari Rajasekaran, Swathi Krishnan Venkatesan, and Maseed Uddin. New Trends in the bimanufacturing of Green surfactants: Bio-based Surfactants and Biosurfactants. *Title of the book: Next Generation Biomanufacturing Technologies. ACS Publications (ACS symposium series)* (2019), *ISBN13: 9780841235007, Vol. 1329, pp: 24* 10.1021/bk-2019-1329.ch011.

52. **Ramani Kandasamy***, Swathi Krishnan Venkatesan, Maseed Imam Uddin, Sekaran Ganesan, 2019. Anaerobic biovalorization of leather industry solid waste and production of high value-added biomolecules and biofuels. Title of the book: *Biovalorisation of Wastes to Renewable Chemicals and Biofuels. Elsevier publications,* ISBN: 9780128179512 (2019) pp.3-25. https://doi.org/10.1016/B978-0-12-817951-2.00001-8.
53. Rathankumar A.K., Sailavanyaa S., Saikia K., Anusha G., Sivanesan S., Gosselin M., Cabana H., **Kumar V.V.,** (2019) "Systemic concocting of cross-linked enzyme aggregates of *Candida antarctica* Lipase B for the biomanufacturing of rhamnolipids", *Journal of Surfactants and Detergents*, 22(3), 477-90. https://doi.org/10.1002/jsde.12266 (IF – 1.654)
54. González-Abradeloa D., Pérez-Llanoa Y, Folch-Mallol J.L., Aranda E., **Kumar V.V.,** Cabana H, Batista-García R.A., (2019) "First demonstration that ascomycetous halophilic fungi (*Aspergillus sydowii* and *Aspergillus destruens*) are useful in xenobiotic mycoremediation under high salinity conditions", *Bioresource Technology*, 279, 287-296. https://pubmed.ncbi.nlm.nih.gov/30738355/ (IF – 7.539)

55. P.Radha, Priya Suhazsini, Keerthana Prabhu, Anjali Jayakumar, K. Ramani. "Chicken tallow, a renewable source for the production of biosurfactant by *Yarrowia lipolytica* MTCC9520 and its application in silver nanoparticle synthesis". **Journal of Surfactants and Detergents (2019), (Impact factor: 1.654)**

56. Bhakta Sarbari, Debnath Krishanu, Sriram Aditi, Keshav Rukmani, Maitra Meghna and **Panjanathan Radha***. "Acetone-Butanol-Ethanol production from paper mill sludge by separate hydrolysis and fermentation". **Research Journal of Chemistry and Environment.** Vol. 23 (6) June **, 2019. (Scopus indexed).**

57. Prabhu, Keerthana, Anjali Jayakumar, K. P. Sreelakshmi, Arnab Raha, Meghna Maitra, and **P. Radha***. "Utilization of microbial oil produced from Pichia kudriavzevii NCIM 3653 using paper mill sludge as an alternative substrate for biodiesel synthesis." **Biofuels (2019):** 1-8. **(Impact factor: 1.496)**

58. Sameena, M. Fathima, Ria Goel, Abhilash Karthik, Priya Suhazsini, and **P. Radha***. "Brevundimonas vesicularis MF276770, a new strain for gelatinase production by utilizing chicken feet gelatin." ***Biocatalysis and Biotransformation*** 37, no. 4, **2019:** 278-290. **(Citations: Impact factor: 1.863).**
59. Development of specific DHODH inhibitors for Plasmodium and Human species **Swaminathan P,** LM Saleena, International Journal of Computational Biology and Drug Design, (2019),12 (1), 1-15.(**SNIP: 0.181**)
60. Letter to the Editor regarding, "The prognostic role of PD-L1 expression for survival in head and neck squamous cell carcinoma: A systematic review and meta-analysis" Rama

Jayaraj , Chellan Kumarasamy, Suja Samiappan ,**Priya Swaminathan**, Oral Oncology (2019),90:139-140 (**IF: 3.98**)

61. Peptide Similarity Search Based and Virtual Screening Based Strategies to Identify Small Molecules to Inhibit CarD–RNAP Interaction in M. tuberculosis VGS Priya, **Swaminathan P**, UM Muddapur, PM Fandilolu, RS Parulekar, (2019), International Journal of Peptide Research and Therapeutics ,25 (2), 697-709.**(IF:1.5)**

62. Scenedesnus rotundus isolated from the petroleum efuent employs alternate mechanisms of tolerance to elevated levels of Cadmium and Zinc. **Subhashini Shivaji** & Sarada D.V. L. Dronamaraju . Scientific Report 9:8485 (2019).

63. Hima, Lalgi & Pratap, Uday & Karrunanithi, Sunil & Ravichandran, Kishore & **Vasantharekha, Ramasamy** & Thyagarajan, Srinivasan. (2019). Virgin coconut oil supplementation in diet modulates immunity mediated through survival signaling pathways in rats. Journal of Complementary and Integrative Medicine. 17. 10.1515/jcim-2019-0114.
64. Karrunanithi, Sunil & Ravichandran, Kishore & Hima, Lalgi & Pratap, Uday & **Vasantharekha, Ramasamy** & Thyagarajan, Srinivasan. (2019). Virgin coconut oil enhances neuroprotective and anti-inflammatory factors in the thymus and mesenteric lymph nodes of rats. Clinical and Experimental Neuroimmunology. 10.1111/cen3.12540.
65. **Vasantharekha, Ramasamy** & Hima, Lalgi & Thandapani, Prabu & K, Sanjana & Ramesh, Amirtha Priya & A. Poornima & Thyagarajan, Srinivasan. (2019). Regulation of Immunity by Estrogen Through Sympathetic Nervous System in Aging. Turkish Journal of Immunology. 7. 10.25002/tji.2019.1013.
66. ThyagaRajan, S., Hima, L., Pratap, U.P., Priyanka, H.P., **Vasantharekha, R**. (2019) Estrogen-induced neuroimmunomodulation as facilitator of and barrier to reproductive aging in brain and lymphoid organs. Journal of chemical neuroanatomy. Volume 95, January 2019, Pages 6-12. https://doi.org/10.1016/j.jchemneu.2018.02.008
67. Jaiganesh, R., Tattwaprakash, C., Kumar, G.R., Iyappan, S., **Jaganathan, M.K**., **2019**. Characterization and Optimization of process parameter for maximum Poly (−β-) hydroxyl butyrate production by bacteria isolated from the soil. Res J Pharm Technol 12, 4926–4930.
68. Saraswathi, T.S., Mothilal, M., **Jaganathan, M.K**., **2019**. Niosomes as an emerging formulation tool for drug delivery-a review. Int J Appl Pharm 11, 7–15.
69. Pramanik S, Agarwala P, Vasudevan K, **Sarkar K**. Human-Lymphocyte Cell Friendly Starch-Hydroxyapatite Biodegradable Composites: Hydrophilic Mechanism, Mechanical and Structural Impact. *Journal of Applied Polymer Science*, 137, 48913, 2019. Impact factor: 2.188. ISSN: 1097-4628. https://doi.org/10.1002/app.48913
70. Rai A†, Akshaya MS†, Krithika Sonali KN, Bose S, Sanyal S, Mondal S, Mukherjee S, **Sarkar K**. Neem leaf glycoprotein facilitates lung carcinoma-associated antigen-specific anti-cancer immune response utilizing macrophage-mediated antigen presentation and

induction of type 1 cytokines coupled with nitric oxide production. Turk J Immunol, 7, S69−S76, 2019. ISSN: 1301-109X. †Contributed equally. 10.25002/tji.2019.1012

71. Dineshkumar Ramalingam, **Samuel Jacob**. Pollution abatement through Algal based green technology, In: Green Technology for Bioremediation of Environmental Pollution, Nova Science Publishers, New York, USA. (2019)

72. Rintu Banerjee, **Samuel Jacob**. Implication of anaerobic digestion for large scale implementations, In : **Different Types of Biofuel Production from Lignocellulosic Biomass,** Apple Academic Press, CRC Press, Taylor and Francis Group, New Jersey, USA**. (2019)**

73. Gunasekaran Rajeswari, Rintu Banerjee, **Samuel Jacob**. Perspectives of liquid and gaseous fuel production from Aquatic Energy Crops, In: **Different Types of Biofuel Production from Lignocellulosic Biomass, Apple Academic Press,** CRC Press, Taylor and Francis Group, New Jersey, USA**. (2019)**

74. Gunasekaran Rajeswari, **Samuel Jacob**. Deciphering the aloe vera leaf rind as potent feedstock for bioethanol through enzymatic delignification and its enhanced saccharification. Industrial Crops & Products, Elseiver. DOI: https://doi.org/10.1016/j.indcrop.2019.111876 (2019)

75. Gunasekaran Rajeswari, Balakrishnan Arutselvy, **Samuel Jacob**. Delignification of Aloe Vera Rind by Mild Acid Associated Microwave Pretreatment to Persuade Enhanced Enzymatic Saccharification. Waste and Biomass Valorization, Springer. DOI: https://doi.org/10.1007/s12649-019-00830-7 (2019)

76. Sridevi DV, Sundaravadivel E, **Kanagaraj P**. Influence of Fe doping on structural, Physicochemical and biological properties of CdSe nanoparticles. Material Science in Semiconductor Processing. 2019: 101; 67-75. **Impact factor 2.5**

77. Jaiganesh R, Tattwaprakash C, Rahul Kumar G**,** Iyappan S, Jaganathan M.K **(2019).** "Characterization and optimization of process parameter for maximum poly (-β-) hydroxyl butyrate production by bacteria isolated from the soil". Research Journal of Pharmacy and Technology, 2019, 12(10), pp. 4926-4930

78. Aishwarya SS, Selvarajan E, Iyappan S, Rajnish KN (2019). "Recombinant l-Asparaginase II from Lactobacillus casei subsp. casei ATCC 393 and Its Anticancer Activity". Indian Journal of Microbiology, 59(3), pp. 313-320

79. Preethi Sudhakara, Iyappan Sellamuthu and A. Wilson Aruni **(2019).** Bacterial sialoglycosidases in Virulence and Pathogenesis. Pathogens, 8, 39.

80. Vinoth P., Subramani K., Natarajan R.K., Subaiya S.V., Mahesh S., Usha B and Sellamuthu Iyappan **(2019)**. "Screening of plant growth promoting rhizobacteria for antifungal activity against *Fusarium oxysporum"*. J. Environ. Biol., 40, 235-239.

81. Nathan Immaculate Monica, Pasupathi Rathinasabapathi, Mohandass Ramya **(2019).** "Development of real-time loop-mediated isothermal amplification (RealAmp) method for sensitive and rapid detection of pathogenic and non-pathogenic Leptospira". Letters in Applied Microbiology. 68(2):196-203.

82. Srinivasan R, Chaitanyakumar A, Subramanian P, Mageswari A, Gomathi A, Aswini V, Sankar AM , Ramya M, Gothandam KM **(2019)**. "Recombinant engineered phage-derived enzybiotic in *Pichia pastoris* X- 33 as whole cell biocatalyst for effective biocontrol of *Vibrio parahaemolyticus* in aquaculture".Int J Biol Macromol.

83. Radha S, Renuka Dharani S, Gayathri Devi S& Ramya M **(2019)**. "Screening and characterization of high lipid accumulating microalga *Ankistrodesmus* sp. from freshwater environment". Indian Journal of Experimental Biology Vol. 57, pp. 931-936.
84. Monica, N., Rathinasabapathi, P. and Ramya, M. **(2019)**. "Development of real-time loop-mediated isothermal amplification (RealAmp) method for sensitive and rapid detection of pathogenic and nonpathogenic *Leptospira"*. Lett Appl Microbiol, 68: 196-203.
85. Mary Sanitha, Anwar Aliya Fathima & Mohandass Ramya **(2019).** "Microbial diversity analysis of wood degrading microbiome and screening of natural consortia for bioalcohol production". Journal of Biofuels
86. Kumar T, Xavier N, Ramya M **(2019)**. "A High-Performance Liquid Chromatography Method for Determination of Genotoxic Impurity Hydroxylamine in Drug Substances". J Chromatogr Sci. 1;57(1):63-70.
87. Sathya B, Santhosh N, Madhavan T**. (2019)** "Investigation of Empirical and Semi-Empirical Charges to Study the Effects of Partial Charges on Quality and Prediction Accuracy in 3D-QSAR" ChemistrySelect 4:3990-4002
88. Macrin D, Alghadeer A, Zhao YT, Miklas JW, Hussein AM, Detraux D, Robitaille AM, Madan A, Moon RT, Wang Y, Devi A, Mathieu J, Ruohola-Baker H **(2019)**. Metabolism as an early predictor of DPSCs aging. Sci Rep. 9(1):2195.
89. Harishankar MK, Mohan AM, Krishnan AV, **Devi A (2019)**. "Downregulation of Notch4 - a prognostic marker in distinguishing oral verrucous carcinoma from oral squamous cell carcinoma". Braz J Otorhinolaryngol**.** 85(1):11-16.
90. Sabarimurugan S, Kumarasamy C, Baxi S, Devi A, Jayaraj R. **(2019).** "Systematic review and meta-analysis of prognostic microRNA biomarkers for survival outcome in nasopharyngeal carcinoma". PLoS One**.**
91. Kamath Mukund Manali, Rex Arunraj, Gautham Subramaniam Ramakrishnan, Mohandass Ramya **(2019).**"Development of sensitive and specific multiplex PCR method for the detection of microcystin producing cyanobacteria in spirulina food supplements". Journal of food science and biotechnology. 28(2), pp-609-614.
92. Seethalakshmi Sakthivel, SKM Habeeb, Chandrasekar Raman (2019). "Screening of broad spectrum natural pesticides against conserved target arginine kinase in cotton pests by molecular modelling". Journal of Biomolecular Structure and dynamics. 37(4), pp 1022-1042

2018

1. Suganya, N., Mani, K.P., Sireesh, D., Rajaguru, P., Vairamani, M., Suresh, T., Suzuki, T., Chatterjee, S., Ramkumar, K.M. Establishment of pancreatic microenvironment model of ER stress: Quercetin attenuates β-cell apoptosis by invoking nitric oxide-cGMP signaling in endothelial cells (2018) Journal of Nutritional Biochemistry, 55, pp. 142-156.
2. Arumugam, B., Vairamani, M., Partridge, N.C., Selvamurugan, N. Characterization of Runx2 phosphorylation sites required for TGF-β1-mediated stimulation of matrix metalloproteinase-13 expression in osteoblastic cells (2018) Journal of Cellular Physiology, 233 (2), pp. 1082-1094.
3. Champalal, L., Kumar, U.S., Krishnan, N., Vaseeharan, B., Mariappanadar, V., Raman, P. Modulation of quorum sensing-controlled virulence factors in Chromobacterium violaceum by selective amino acids (2018) FEMS Microbiology Letters, 365 (23), art. no. fny252,
4. Umapathy, D., Dornadula, S., Krishnamoorthy, E., Mariappanadar, V., Viswanathan, V., Ramkumar, K.M. YKL-40: A biomarker for early nephropathy in type 2 diabetic patients and its association with inflammatory cytokines (2018) Immunobiology, 223 (11), pp. 718-727.
5. Umapathy, D., Dornadula, S., Rajagopalan, A., Murthy, N., Mariappanadar, V., Kesavan, R., Kunka Mohanram, R. Potential of circulatory procalcitonin as a biomarker reflecting inflammation among South Indian diabetic foot ulcers (2018) Journal of Vascular Surgery, 67 (4), pp. 1283-1291.e2.
6. Umapathy, D., Krishnamoorthy, E., Mariappanadar, V., Viswanathan, V., Ramkumar, K.M. Increased levels of circulating (TNF-α) is associated with (-308G/A) promoter polymorphism of TNF-α gene in Diabetic Nephropathy (2018) International Journal of Biological Macromolecules, 107, pp. 2113-2121.
7. Dhivya, S., Keshav Narayan, A., Logith Kumar, R., Viji Chandran, S., Vairamani, M., Selvamurugan, N. Proliferation and differentiation of mesenchymal stem cells on scaffolds containing chitosan, calcium polyphosphate and pigeonite for bone tissue engineering (2018) Cell Proliferation, 51 (1), art. no. e12408, .
8. Lourthuraj A.A., M.M. Selvam, B. Ravikrishnan. M. Vinoth, W. Hopper 2118. Analysis of molecular docking efficiency of cleistanthin-a, as an alternative for nicotine addiction, International Journal of Pharmacy and Pharmaceutical Sciences 10(4):98-100.
9. Sheema J.B., W. Hopper 2018. Energy-based pharmacophore modeling, virtual screening, and molecular dynamics to identify potential inhibitors for Glycogen synthase kinase 3 beta, Asian Journal of Pharmaceutical and Clinical Research 11(2):181-188.

10. Vijayasri S., W. Hopper 2018. Site partition enhanced shape based docking and molecular dynamics studies of G-protein coupled receptor acting natural ligands. Journal of Applied Pharmaceutical Science 8(1):21-28.
11. Julius A., W. Hopper 2018. Natural Aldose reductase inhibitors act as potent agonists of PPARγ. Journal of Young Pharmacists 10(1): 62-65.

12. Sympathetic neurotransmission in spleens from aging Brown-Norway rats subjected to reduced sympathetic tone Sam D Perez, Christine A Molinaro, Laren Tan, Srinivasan Thyagarajan, Dianne Lorton Journal of Neuroimmunology 2018, DOI: 10.1016/j.jneuroim.2018.08.010

13. Noni (Morinda citrifolia L.) fruit juice delays immunosenescence in the lymphocytes in lymph nodes of old F344 rats Uday Pratap, Hannah Priyanka, Karthik Ramanathan, Vishak Raman, Lalgi Hima, Srinivasan Thyagarajan, Journal of Integrative Medicine 16(3), 2018 DOI: 10.1016/j.joim.2018.04.002

14. Estrogen-induced neuroimmunomodulation as facilitator of and barrier to reproductive aging in brain and lymphoid organs Srinivasan Thyagarajan, Lalgi Hima, Uday Pratap, Hannah Priyanka, Vasantharekha Ramasamy, Journal of Chemical Neuroanatomy 95, 2018, DOI: 10.1016/j.jchemneu.2018.02.008

15. Pulsed electromagnetic fields inhibit human osteoclast formation and gene expression via osteoblasts Z. He♦, N. Selvamurugan♦, J. Warshaw and N. C. Partridge (2018) (♦equally contributed) Bone 106: 194-203; Impact Factor: 4.147
16. Characterization of Runx2 Phosphorylation sites Required for TGF-β1-Mediated stimulation of Matrix Metalloproteinase-13 Expression in Osteoblastic cells B. Arumugam, M. Vairamani, N. C. Partridge and N. Selvamurugan (2018) Journal of Cellular Physiology 233: 1082-1094; Impact Factor: 5.546
17. Proliferation and Differentiation of Mesenchymal Stem Cells on Scaffolds Containing Chitosan, Calcium Polyphosphate, and Pigeonite for Bone Tissue Engineering S. Dhivya, A. Keshav Narayan, R. Logith Kumar, S. Viji Chandran, M. Vairamani and N. Selvamurugan (2018) Cell Proliferation 51(1): e12408; Impact Factor: 5.753
18. Metal metalloproteinase-13: A special focus on its regulation by signaling cascades and microRNAs in bone S. Saiganesh, R. Saathvika, V. Udhaya, B. Arumugam, M. Vishal and N. Selvamurugan (2018) International Journal of Biological Macromolecules 109: 338-349; Impact Factor: 5.162
19. Formulation and biological actions of nano-bioglass ceramic particles doped with Calcarea phosphorica for bone tissue engineering S. Dinesh Kumar, K. Mohamed Abudhahir, N. Selvamurugan, S. Vimalraj, R. Murugesan, N. Srinivasan and A. Moorthi (2018) Materials Science and Engineering 83: 202-209; Impact Factor: 5.880

20. Effects of flavonoids incorporated biological macromolecules based scaffolds in bone tissue engineering S. Preethi Soundarya, V. Sanjay, A. Haritha Menon, S. Dhivya and N. Selvamurugan (2018) International Journal of Biological Macromolecules 110: 74-87; Impact Factor: 5.162
21. Natural and synthetic polymers/bioceramics/bioactive compounds-mediated cell signaling in bone tissue engineering S. H. Rao, B. Harini, R. P.K. Shadamarshan, K. Balagangadharan and N. Selvamurugan (2018) International Journal of Biological Macromolecules 110: 88-96; Impact Factor: 5.162
22. Chitosan/nano-hydroxyapatite/nano-zirconium dioxide scaffolds with miR-590-5p for bone regeneration K. Balagangadharan, S. Viji Chandran, B. Arumugam, S. Saravanan, G. Devanand Venkatasubbu and N. Selvamurugan (2018) International Journal of Biological Macromolecules 111:953-958; Impact Factor: 5.162
23. Parathyroid hormone-induced down-regulation of miR-532-5p for matrix metalloproteinase-13 expression in rat osteoblasts V. Mohanakrishnan, A. Balasubramanian, G. Mahalingam, N. C. Partridge, I. Ramachandran and N. Selvamurugan (2018) Journal of Cellular Biochemistry 119: 6181-6193; Impact Factor: 4.237
24. Syringic acid, a phenolic acid, promotes osteoblast differentiation by stimulation of Runx2 expression and targeting of Smad7 by miR-21 in mouse mesenchymal stem cells B. Arumugam, K. Balagangadharan and N. Selvamurugan (2018) Journal of Cell Signaling and Communication 12: 561-573; Impact Factor: 5.020
25. Sustained release of chrysin from chitosan-based scaffolds promotes mesenchymal stem cell proliferation and osteoblast differentiation A. H. Menon, S. P. Soundarya, V. Sanjay, S. V. Chandran, K. Balagangadharan and N. Selvamurugan (2018) Carbohydrate Polymers 195: 356-367; Impact Factor: 7.182
26. Bone tissue engineering: Scaffold preparation using chitosan and other biomaterials with different design and fabrication techniques S. Preethi Soundarya, A. H. Menon, S. Viji Chandran and N. Selvamurugan (2018) International Journal of Biological Macromolecules 119: 1228-1239; Impact Factor: 5.162
27. Fabrication of PCL/PVP electrospun fibers loaded with trans-anethole for bone regeneration in vitro R. PranavKumar Shadamarshan, H. Balaji, H. S. Rao, K. Balagangadharan, S. Viji Chandran and N.Selvamurugan (2018) Colloids Surface B Biointerfaces 171: 698-706; Impact Factor: 4.389
28. Role of activating transcription factor 3 and its interacting proteins under physiological and pathological conditions M. Rohini, A. H. Menon and N. Selvamurugan (2018) International Journal of Biological Macromolecules 120: 310-317; Impact Factor: 5.162
29. MiR-590-3p inhibits proliferation and promotes apoptosis by targeting activating transcription factor 3 in human breast cancer cells M. Rohini, M. Gokulnath, P. J. Miranda and N. Selvamurugan (2018) Biochimie 154: 10-18; Impact Factor: 3.413

30. The role of histamine and histamine receptors in mast cell-mediated allergy and inflammation: the hunt for new therapeutic targets. Frontiers in immunology (2018):E. Berla Thangam., Jemima, E.A., Singh, H., Bag, M.S., Khan, M., Mathias, C., Church, M.K. and Saluja, R., Frontiers in Immunology 9, 1873. (IF: 6.4)
31. Silencing of H4R inhibits the production of IL-1β through SAPK/JNK signaling in human mast cells (2018). Ebenezer, A.J., Prasad, K., Rajan, S. and E. Berla Thangam. Journal of Receptors and Signal Transduction Res. 38(3), .204-212. (IF: 2.2)
32. Poly herbal formulation with anti-elastase and anti-oxidant properties for skin anti-aging Kalyana Sundaram I, Sarangi DD, Sundararajan V, George S, Sheik Mohideen S (2018) BMC Complement Altern Med. 18:33, (*IF. 2.8).*

33. Dhamodharan U, Ponjayanthi B, Sireesh D, Bhakkiyalakshmi E, Ramkumar KM*. Association of single-nucleotide polymorphisms of the KEAP1 gene with the risk of various human diseases and its functional impact using *in silico* analysis. Pharmacological Research, 2018;137:205-218 (I.F.: 5.89, Citation: 2)

34. Umapathy D, Dornadula S, Krishnamoorthy E, Mariappanadar V, Viswanathan V, Ramkumar KM*. YKL-40: A biomarker for early nephropathy in type 2 diabetic patients and its association with inflammatory cytokines. Immunobiology, 2018;223(11):718-727 (I.F.: 2.78, Citation: 11)

35. Senthil Kumar S, Muthuselvam P, Pugalenthi V, Subramanian N, Ramkumar KM, Suresh T, Suzuki T, Rajaguru P. Toxicoproteomic analysis of human lung epithelial cells exposed to steel industry ambient particulate matter (PM) reveals possible mechanism of PM related carcinogenesis. Environmental Pollution, 2018;239:483-492 (I.F.: 6.79, Citation: 15)

36. Sireesh D, Dhamodharan U, Ezhilarasi K, Vijay V, Ramkumar KM*. Association of NF-E2 Related Factor 2 (Nrf2) and inflammatory cytokines in recent onset Type 2 Diabetes Mellitus. Nature Scientific reports, 2018; 23;8(1):5126. (I.F.: 3.99, Citation: 47)

37. Suganya N, Mani KP, Sireesh D, Rajaguru P, Vairamani M, Suresh T, Suzuki T, Chatterjee S, Ramkumar KM*. Establishment of pancreatic microenvironment model of ER stress: Quercetin attenuates β-cell apoptosis by invoking nitric oxide-cGMP signaling in endothelial cells. The Journal of Nutritional Biochemistry, 2018;55:142-156 (I.F.: 4.873, Citation: 14)

38. Umapathy D, Krishnamoorthy E, Mariappanadar V, Viswanathan V, Ramkumar KM*. Increased levels of circulating (TNF-α) is associated with (-308G/A) promoter polymorphism of TNF-α gene in Diabetic Nephropathy. International Journal of Biological Macromolecules, 2018; 107(Pt B):2113-2121 (I.F.: 5.162, Citation: 40)

39. Dhamodharan U, Sireesh D, Arvind Rajagopalan, Narayana murthy, Vairamani M, Rajesh Kesavan, Ramkumar KM*. Potential of circulatory Procalcitonin as a biomarker reflecting Inflammation among South Indian Diabetic Foot Ulcer. Journal of vascular Surgery, 2018; 67(4):1283-1291 (I.F.: 3.405; Citation: 9)

40. Vanniya S P, Srisailapathy CRS, Ramkumar KM*. The tip link protein Cadherin-23: From Hearing Loss to Cancer. Pharmacological Research. 2018; 130:25-35. (I.F.: 5.89; Citation: 2)

41. Suganya N, Dornadula S, Chatterjee S, Mohanram RK. Quercetin improves endothelial function in diabetic rats through inhibition of endoplasmic reticulum stress-mediated oxidative stress. European Journal of Pharmacology 2018; 819:80-88. (I.F.: 3.04; Citation: 19)

42. Rashmi R, Bojan Magesh S, Ramkumar KM, Suryanarayanan S, Venkata SubbaRao M. Antioxidant Potential of Naringenin Helps to Protect Liver Tissue from Streptozotocin-Induced Damage. Rep Biochem Mol Biol. 2018; 7(1):76-84 (Citation: 15)

43. Madhuri harsha N, Piyushika Dulloo, Rupachandra S, Jagadeeshwari S, Joann Davina M, Porkodi S, "Isolation and Identification of Antimicrobial proteins from the leaves of *Valeriana Hardwickii* and *Senna Obtusifolia*", Asian Journal of Pharmaceutical and Clinical Research (Scopus indexed- SNIP- 0.492), 11(3), 438-440, 2018.
44. Nair R, Santosh W, Barathi, S "Enhanced Biosynthesis of Laccase and Concomitant Degradation of 2, 3-Dichlorodibenzo-p-Dioxin by *Pleurotus florida*," Indian J Sci Tech, 11(23), 2018
45. Sonia Sarkar and Venkatesan Kotteeswaran. Green synthesis of silver nanoparticles from aqueous leaf extract of Pomegranate (*Punica granatum*) and their anticancer activity on human cervical cancer cells. Adv. Nat. Sci: Nanosci. Nanotechnol. 9:025014, 2018.
46. V.Poornima, V.Alexandar, S.Iswariya, A.Dhivyaparameshwari R.Muthukumar and T.S.Uma, Digital image based simple scanometric device for the express detection of aqueous contamination of $Hg^{2+,}$ Sensors and Actuators B: Chemical, 2018, 274: 472-480.
47. Jaiganesh. R and M.K.Jaganathan, 2018. Isolation, purification, and characterization of lipase from bacillus sp. From kitchen grease. Asian Journal of Pharmaceutical and Clinical Research, 11(6):224-227.

48. Gouri Chaudhuri, Gaurav A Shah, Pritam Dey, Ganesh S, P Venu-Babu, W Richard Thilagaraj, "Role of 1-Naphthyl Phosphate on Alkaline Phosphatases for the Treatment of Industrial Effluents". Biodegradation (2018).
49. Uma Selvaraj, Richard Thilagaraj and P. Venu- Babu, "Application of H412R mutant alkaline phosphatase for removal of heavy metals from single ion solutions and effluents'. International Journal of Environmental Science and Technology, (2018).

50. Chemically enhanced coffee husks as biosorbents for the removal of copper and nickel ions from aqueous solutions: study on kinetic parameters. J Arun, R Sushma, BS Darshan, M Pandimadevi 2018, 121 291-304

51. G. Mathew, P. Dey, R. Das, S.D. Chowdhury, M.P. Das, P. Veluswamy, B. Neppolian, **J. Das***. **Direct electrochemical reduction of hematite decorated graphene oxide (α-Fe_2O_3@erGO) nanocomposite for selective detection of Parkinson's disease biomarker**. Biosensors and Bioelectronics. 115 (**2018**) 53–60. **IF- 10.2**
https://www.sciencedirect.com/science/article/pii/S0956566318303634

52. M.P. Das*, J.R. Livingstone, P. Veluswamy, **J. Das**. Exploration of *Wedelia chinensis* leaf-assisted silver nano particles for antioxidant, antibacterial and in vitro cytotoxic applications. Journal of Food and Drug Analysis. 26 (**2018**) 917-925. **IF - 4.7**. https://www.sciencedirect.com/science/article/pii/S1021949817301515

53. M.P. Das, S. Kumar, **J. Das***. Fungal-mediated deterioration and biodegradation study of low-density polyethylene (LDPE) isolated from municipal dump yard in Chennai, India. Energy, Ecology and Environment. 3 (**2018**) 229-236. https://link.springer.com/article/10.1007/s40974-018-0085-z

54. P. Velusamy*, C.M. Srinivasa, G. Venkat Kumar, Y. Qurishi, C-H. Su, S. C. B. Gopinath (2018). A pH Stimuli thiol modified mesoporous silica nanoparticles: doxorubicin carrier for cancer therapy. Journal of the Taiwan Institute of Chemical Engineers. Vol. 87, 264-271

55. S.C.B. Gopinath, S. Ramanathan, K. Hann Suk, P. Anbu, P. Velusamy, K. Pandian (2018). Characterization of reduced graphene oxide obtained from vacuum-assisted low-temperature exfoliated graphite. Microsystem Technologies. Vol.24, 5007-5016.

56. M. Divya, B. Vaseeharan, , M. Anjugam, A. Iswarya, S. Karthikeyan, P. Velusamy, M. Govindaraj N.S. Alharbif S. Kadaikunnan, J.M. Khaled, C. Vágvölgyif (2018). Phenoloxidase activation, antimicrobial, and antibiofilm properties of β-glucan binding protein from Scylla serrata crab hemolymph. International Journal of Biological Macromolecules. Vol. 114, 864-873.

57. R. Pachaiappan, E. Tamboli, A. Acharya, C-H. Su, SCB. Gopinath, Y. Chen, P. Velusamy, (2018). Separation and identification of bioactive peptides from stem of Tinospora cordifolia (Willd.) Miers. PLoS ONE 13(3): e0193717.

58. Abinaya, B. Manish, S. Meenakumari, T. Munusamy, M. Thirumurthy, N. Santhosh Kumar, P. Velusamy, R. Pachaiappan, (2018). Isolation, purification and characterization of proteinaceous fungal α-amylase inhibitor from rhizome of Cheilocostus speciosus (J.Koenig) C.D.Specht. International Journal of Biological Macromolecules. Vol. 111: 39-51.

59. R. Geethalakshmi and **Sarada, DVL** (2018). Anti-inflammatory activity of Dimethyl octenol and Oleanene tetrol isolated from *Trianthema decandra* L" Molecular Biology Reports https://doi.org/10.1007/s11033-018-4193-9
60. R. Geethalakshmi and **Sarada, DVL** (2018). *In vitro* and *in silico* antimicrobial activity of sterol and flavonoid isolated from *Trianthema decandra* L. Microbial Pathogenesis **121**:77-86. https://doi.org/10.1016/j.micpath.2018.05.018
61. R. Geethalakshmi Sundaramurthi, JC and **Sarada, DVL** (2018) *In vitro* and *in silico* antibacterial activity of flavonoid isolated from *Trianthema decandra* against *Pseudomonas aeruginosa* and molecular docking study of FabZ. Microbial Pathogenesis **121**:87-92. https://doi.org/10.1016/j.micpath.2018.05.016
62. Amala R, **Sujatha S.** Phytochemical analysis and suppression of inflammatory targets by Adathoda vasica. **Asian journal of Pharmaceutical and clinical research.** 11(2018):pp.162-166. (SNIP: 0.66)

63. Praveen Kumar I, Arun J, SriSnehaa C, **Sujatha S**. Tannins of Jatropha gossypifolia exert antihyperlipidemic effect in streptozotocin-nicotinamide induced diabetic rats. **European journal of biomedical and pharmaceutical sciences.** 5 (2018) pp. 607-614. (IF: 6.044)

64. Amala reddy, **Sujatha S** and Ramkumar KM. New insights in the management of metabolic disorder in Pharmacology: A review with reference to *Adathoda vasica* for Diabetes mellitus. **Recent progress in medicinal plants. Studium Press** LLC, U.S.A., 2018; 1- 62699-082-42:283-297.

65. Champalal, L., Kumar, U. S., Krishnan, N., Vaseeharan, B., Mariappanadar, V., & **Raman, P**. (2018). Modulation of quorum sensing-controlled virulence factors in *Chromobacterium violaceum* by selective amino acids. FEMS Microbiology Letters, 365(23) doi:10.1093/femsle/fny252**. *Impact Factor: 1.987***
66. Balasubramanian Abinaya, Manish Bhattacharjee, Sakthivel Meenakumari, Munusamy Thirumavalavan, Thirumurthy Madhavan, Santhosh Kumar Nagarajan, Velusamy Palaniyandi and **Pachaiappan Raman** (2018) "Isolation, purification and characterization of proteinaceous fungal α-amylase inhibitor from rhizome of *Cheilocostus speciosus* (J.Koenig) C.D.Specht" *International Journal of Biological Macromolecules* Vol. 111, pp. 39–51, https://doi.org/10.1016/j.ijbiomac.2017.12.158. ***Impact Factor: 5.162***
67. Rosalin Beura, **R. Pachaiappan**, P. Thangadurai (2018) "A detailed study on Sn4+ doped ZnO for enhanced photocatalytic degradation" Applied Surface Science Vol. 433, pp. 887–898, https://doi.org/10.1016/j.apsusc.2017.10.127. ***Impact Factor: 6.182***

68. **Raman Pachaiappan**, Ekant Tamboli, Aurovind Acharya, Chia-Hung Su, Subash C. B. Gopinath, Yeng Chen, Palaniyandi Velusamy (2018) "Separation and Identification of

Bioactive Peptides from Stem of *Tinospora cordifolia* (Willd.) Miers" PLoS ONE 13(3): e0193717. https://doi.org/10.1371/journal.pone.0193717. ***Impact Factor: 2.740***

69. *Scope of Pathogenesis-Related Proteins Produced by Plants in Interrupting Quorum Sensing Signalling.* (2018) Book chapter in **Biotechnological Applications of Quorum Sensing Inhibitors,** ISBN: 978-981-10-9025-7, Edited by V. C. Kalia, Springer Nature, Publishing agency, Singapore. https://doi.org/10.1007/978-981-10-9026-4_18.

70. *Applications of Quorum Sensing in Microbial fuel cell.* (2018). Book chapter in **Quorum Sensing and its Biotechnological Applications,** ISBN: 978-981-13-0847-5, Edited by V. C. Kalia, Springer Nature, Publishing agency, Singapore.
71. Ramamoorthi Ganesan, Sivalingam N. Transforming Growth Factor Beta 2 Inhibits Growth and Proliferation Potential of Smad4 and p53 Mutated Human Colon denocarcinoma Cells.Pathology & Oncology Research, 2018, 1-3. https://doi.org/10.1007/s12253-018-0423-7. Impact factor : 1.763
72. Agarwal A, Kasinathan A, Ganesan R, Balasubramanian A, Bhaskaran J, Suresh S, Srinivasan
73. R, Aravind KB, **Sivalingam N**. Curcumin induces apoptosis and cell cycle arrest via the activation of reactive oxygen species-independent mitochondrial apoptotic pathway in Smad4 and p53 mutated colon adenocarcinoma HT29 cells. Nutr Res. 2018 Mar;51:67-81. doi: 10.1016/j.nutres.2017.12.011. Epub 2018 Jan 6. **Impact factor : 2.737**
74. S.Hepziba Suganthi, Shabnam Murshid, Sriswarna Sriram, **K. Ramani***. Enhanced biodegradation of hydrocarbons in petroleum tank bottom oil sludge and characterization of biocatalysts and biosurfactants. *Journal of Environmental Management*, 220 (2018) 87–95. doi: 10.1016/j.jenvman.2018.04.120 (IF: 4.865)
75. Neeraj G., **Kumar V. V.**, (2018) "Immobilized inulinase: A new horizon of paramount importance driving the production of sweetener and prebiotics", *Critical Reviews in Biotechnology*, 38(3), 409-422. (IF – 8.108) https://doi.org/10.1080/07388551.2017.1359146
76. BalasubramanianAbinaya, Manish Bhattacharjee, SakthivelMeenakumari, MunusamyThirumavalavan, ThirumurthyMadhavan, Santhosh Kumar Nagarajan, VelusamyPalaniyandiand **Pachaiappan Raman** (2018) "Isolation, purification and characterization of proteinaceous fungal α-amylase inhibitor from rhizome of *Cheilocostusspeciosus*(J.Koenig) C.D.Specht" *International Journal of Biological Macromolecules* Vol. 111, pp. 39–51, https://doi.org/10.1016/j.ijbiomac.2017.12.158. ***Impact Factor: 5.162***
77. Arin Gucchait, Nikilesh joardar, Pravat Kumar Parida, Priya Roy, Niladri Mukherjee, Annanya Dutta, **Ravichandran Yesuvadian,** Santi P. SinhaBabu, Kuladip Jana, Anup Kumar Mishra. Development of novel anti-filarial agents using

carbamo(dithioperoxo)thioate derivatives. Europian Journal of Medicinal Chemistry. 143 (2018) 598-610.

78. Ramya Devi. K. T (2018). Cichorium intybus L. accords hepatoprotection in Streptozotocin induced diabetes mellitus in Wistar rats. Research Journal of Biotechnology, 13(3), p42-45. Impact factor: 0.9

79. Srija Das, Amrita Majumder, Vasu Shukla, Priya Suhazsini, **P. Radha***. "Biosynthesis of Poly (3- hydroxybutyrate) From Cheese Whey by *Bacillus megaterium* NCIM 5472". **Journal of Polymer and the Environment, 2018. (Impact Factor:2.572)**

80. Harshita Gogoi, V. Nirosha, Anjali Jayakumar, Keerthana Prabhu, Meghna Maitra, **Radha Panjanathan*.** "Paper mill sludge as a renewable substrate for the production of acetone-butanol-ethanol using *Clostridium sporogenes* NCIM 2337". **Energy sources, Part A: Recovery, Utilization and Environmental Effects,** 40 (1), 39-44, **2018. (Impact Factor: 1.184).**

81. Comparison of various cell disruption techniques on cadmium and zinc treated scenedesmus rotundus. **S. Subhashini**, Sarada. D.V.L Malavika vijay, Kamini. C. International Journal of Pharma and Bio Sciences 9(3): (B) 172 – 179, 2018.

82. Jaiganesh, R., **Jaganathan, M.K**., **2018**. Isolation, purification, and characterization of lipase from Bacillus sp. From kitchen grease. Asian J Pharm Clin Res 11, 224.
83. Amala Reddy,S.Sujatha. Phytochemical analysis and suppression of inflammatory targets by Adathoda vasica. Asian journal of Pharmaceutical and clinical research 2018;11(5):162-166
84. Amala Reddy, Role of sequentially extracted fractions of Costus pictus in inhibiting oxidative stress: in vitro study, Res. J. Biotech, Vol. 13 (2) February (2018).
85. Amala Reddy, Sujatha S and Ramkumar KM. New insights in the management of metabolic disorder in pharmacology: A review with reference to Adathoda vasica for Diabetes mellitus. Recent progress in medicinal plants. Studium Press LLC, U.S.A., 2018; 1-62699-082-42:283-297.

86. **Sarkar K**, Han SS, Wen KK, Ochs HD, Dupre L, Seidman MM, Vyas YM. R-loops cause genomic instability in T helper lymphocytes from patients with Wiskott-Aldrich syndrome. *J Allergy Clin Immunol*, 142, 219-234, 2018. Impact factor: 14.11. ISSN: 0091-674. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6003829/

87. SMAR1 inhibits Wnt/β-catenin signaling and prevents colorectal cancer progression Nandraj T, Aftab A, Suvankar G, Deya Ghosh C, Apoorva P, Devraj M,Snahlata S , Pallabi S, Subhrangsu C, Manoj K B, Manas K S, Prabhakar B S, Susan K F, and Samit C Oncotarget, 2018 21322–21336. doi: 10.18632/oncotarget.25093

88. Akshaya N B, **Samuel Jacob**. Unification of Waste Management from Fish and Vegetable Markets Through Anaerobic Co-digestion. Waste and Biomass Valorization, https://doi.org/10.1007/s12649-018-0438-z (2018)

89. Bindusree G., Jayasakthi E. and Iyappan S **(2018)** "Molecular Characterization of Microbial Diversity in Ecologically Unique Niche Vedanthangal Lake by Ribotyping". Res. J. Biotech. Vol. 13 (3):63-65

90. Mohandass Ramya, Muthukrishnan Kayalvizhi, Gopalakrishnan Haripriya,Pasupathi Rathinasabapathi **(2018) "**Detection of microcystin-producing cyanobacteria in water samples using loop-mediated isothermal amplification targetin *mcyB* gene". 3 biotech 8 (378).
91. Rathinasabapathi Pauspathi **(2018)**. "Rapid detection of hemolysin gene of Klebsiella pneumoniae by Loop-Mediated Isothermal Amplification (LAMP)". Research Journal of Biotechnology, 13 (4), 24-28.

92. Ramya M, Kayalvizhi M, Haripriya G, Rathinasabapathi P. **(2018)**. "Detection of microcystin-producing cyanobacteria in water samples using loop-mediated isothermal amplification targeting *mcyB* gene" 3 Biotech. 8(9):378.
93. Kamath Mukund Manali, Rex Arunraj, Gautham Ramakrishnan, Mohandass Ramya, **(2018)** "Development of sensitive and specific multiplex PCR method for the detection of microcystin producing cyanobacteria in Spirulina food supplements". Food Science and Biotechnology. Pp- 1-6 doi: 10.1007/s10068-018-0476-0.
94. Arthi, P., Mahendiran, D., Shobana, S., Srinivasan, P., & Rahiman, A. K. **(2018)**. "Theoretical, biological and in silico studies of pendant-armed heteroleptic copper (II) phenolate complexes". Journal of Molecular Structure, 1161, 306-319.
95. Sathya B, Santhosh N, Madhavan T. **(2018)**. "Understanding the structural features of JAK2 inhibitors: a combined 3D-QSAR, DFT and molecular dynamics study" Molecular Diversity
96. Kumarasamy C, Devi A, Jayaraj R**(2018).**"Prognostic value of microRNAs in head and neck cancers: a systematic review and meta-analysis protocol". Syst Rev.7(1):150. doi: 10.1186/s13643-018-0812-8.PMID: 30285880.
97. Jayaraj R, Kumarasamy C, Ramalingam S, Devi A **(2018)**. "Systematic review and meta-analysis of risk-reductive dental strategies for medication related osteonecrosis of the jaw among cancer patients: Approaches and strategies". Oral Oncol. Nov;86:312-313. doi: 10.1016/j.oraloncology.2018.09.017. Epub 2018 Sep 24. PMID: 30262125.
98. Arikketh Devi, Joseph Joel P., Arul Jothi K.N. and Harishankar M.K **(2018).** Lectin histochemical examination of the mucosal changes in the urinary bladder of rats in cyclophosphamide-induced hemorrhagic cystitis. Res. J Biotech**.** 13 (8):16-21

99. Pandey Ankit, Rao Ankita, Devi A**.** and Arul Jothi K.N **(2018)**. Therapeutic Perspectives of Dyslipidemia and Associated Complications: Phytochemical Alternatives for Statins, Res. J Biotech. 13 (8):116-124.

100. Devi A**.,** Harishankar M.K. and Aruljothi. **(2018)** "Chemoprotective role of garlic extract on GST-Pi expression in the liver of Cyclophosphamide administered rats". Res. J Biotech 13(7): 73-79

101. Jayaraj R, Kumarasamy C, Madurantakam Royam M, Devi A, Baxi S **(2018)**. Letter to the editor: is HIF-1α a viable prognostic indicator in OSCC? A critical review of a meta-analysis study. ***World J*** Surg Oncol**.** 18;16(1):111. doi: 10.1186/s12957-018-1408-4.

102. Kavyasudha C, Joel JP, Devi A **(2018).** Differential expression of nucleostemin in the cytoplasm and nuclei of normal and cancerous cell lines. Turk J Biol42(3):250-258. doi: 10.3906/biy-1712-10.

103. Joseph JP, Harishankar MK, Pillai AA, Devi A **(2018).** "Hypoxia induced EMT: A review on the mechanism of tumor progression and metastasis in OSCC. Oral Oncol**.** 80:23-32. doi: 10.1016/j.oraloncology.2018.03.004. Epub 2018 Mar 21. PMID: 29706185.

104. Kavyasudha C, Macrin D, ArulJothi KN, Joseph JP, Harishankar MK, Devi A **(2018).** "Clinical Applications of Induced Pluripotent Stem Cells - Stato Attuale". Adv Exp Med Biol**.** 2018;1079:127-149. doi: 10.1007/5584_2018_173.

105. Nair Sahana, Budamagunta Vivekananda, Meenakshisundaram Abinaya, Hemapriyanka S., Prabhakaran Pournima, Suruthi B. Abirami, **Devi A.** and ArulJothi K.N **(2018)**. "Association of Plasminogen Activator Inhibitor-1 (PAI-1) 4G/5G and Apolipoprotein E polymorphisms with risk of Myocardial Infarction in Indian Tamil Population". Res. J Biotech. 13 (1):91-98

106. ArulJothi KN, Suruthi Abirami B, Devi A **(2018)**. "Genetic spectrum of low-density lipoprotein receptor gene variations in South Indian population". Clin Chim Acta**.** 478:28-36. doi: 10.1016/j.cca.2017.12.024.

107. K.N.ArulJothi, B.Suruthi Abirami, Sivaraj Irusappan, Amarnath Gautami, C.Swathine, **A.Devi. (2018)**. "L55M and Q192R polymorphism of Paraoxonase gene and the risk of myocardial infarction in South Indian Tamil population". Meta Gene. 15(20):55-59

108. A Tomar, R Mohapatra, S Geetanjali **(2018)**. "Evaluation of cytotoxic and genotoxic effects of PEG 1500 MS in Allium cepa and modulatory action by vitamin C". Research journal of biotechnology-15(5):52-56

109. Thiyagaraj Anand Rathnasagar K (2018). "larvicidal activity of lantana indica and vitex negundo on culex quinquefasciatus". Asian J Pharm Clin Res 11(5), pp 414-418.

110. Priyanka, H. P., Thiyagaraj, A, Nair, R.S., Krithika, G., Hima, L., Hopper, W. , ThyagaRajan, S. (2018)." In silico modeling and simulation of neuroendocrine-immune modulation through adrenergic and 17β-estradiol receptors in lymphocytes show differential activation of cyclic adenosine monophosphate (cAMP)". BioRxiv

111. Pradeep Kumar, PL Ravishankar, EN Anila, Ahamed Suhail, Chakraborty Priyankar, Arunraj Rex (2018)." Persistent HSV and CMV viral load in periodontal pockets after non-surgical therapy". Research Journal of Biotechnology. Vol 13.

112. Rex Arunraj, Marcus A Samuel (2018). "Integration of amplification efficiency in qPCR analysis allows precise and relative quantification of transcript abundance of genes from large gene families using RNA isolated from difficult tissues". *Briefings in Functional Genomics*, 17(3), Pages 147–150, https://doi.org/10.1093/bfgp/elx022

113. Akash Srivaths, Shyam Ramanathan, Seethalakshmi Sakthivel, SKM Habeeb (2018). Insights from the Molecular Modelling and Docking Analysis of AIF-NLS complex to infer Nuclear Translocation of the Protein. Journal of Bioformation. 14(3)

114. S.K.M. Habeeb C. Shruthi Sureshan, Seethalakshmi Sakthivel (2018). "Structure-based Virtual Screening, Docking and Molecular Dynamics Simulation Studies on Human Telomerase Reverse Transcriptase (hTERT) Inhibitors". Current Biotechnology, 7(2), pp 115-124

2017

1. Saravanan, S., Chawla, A., Vairamani, M., Sastry, T.P., Subramanian, K.S., Selvamurugan, N. Scaffolds containing chitosan, gelatin and graphene oxide for bone tissue regeneration in vitro and in vivo (2017) International Journal of Biological Macromolecules, 104, pp. 1975-1985.
2. Chandran, S., Sakthivel, M., Thirumavalavan, M., Thota, J.R., Mariappanadar, V., Raman, P. A facile approach to the isolation of proteins in Ferula asafoetida and their enzyme stabilizing, anti-microbial and anti-oxidant activity (2017) International Journal of Biological Macromolecules, 102, pp. 1211-1219.
3. Nagarajan, G., Mariappanadar, V., Tamizh, M., Kaliappan, I., Elden, B.T. Effect of H4R antagonist N-(2-aminoethyl)-5-chloro-1H-indol-2-carboxamides and 5-chloro-2-(piperazin-1-ylmethyl)-1H-benzimidazole on histamine and 4-methylhistamine-induced mast cell response (2017) Journal of Receptors and Signal Transduction, 37 (3), pp. 304-313.
4. Leena, R.S., Vairamani, M., Selvamurugan, N. Alginate/Gelatin scaffolds incorporated with Silibinin-loaded Chitosan nanoparticles for bone formation in vitro (2017) Colloids and Surfaces B: Biointerfaces, 158, pp. 308-318.
5. Shekhar, S., Sood, S., Showkat, S., Lite, C., Chandrasekhar, A., Vairamani, M., Barathi, S., Santosh, W. Detection of phenolic endocrine disrupting chemicals (EDCs) from maternal blood plasma and amniotic fluid in Indian population (2017) General and Comparative Endocrinology, 241, pp. 100-107.
6. Sekar Sudhakar, and Rasool Abdul Nazeer, 2017. In vitro preparation and assessment of radical reducing peptide from Octopus aegina using digestive proteases. Journal of Bioscience and Bioengineering, 124:1; 36-42. (DOI: 10.1016/j.jbiosc.2017.02.014)
7. Julius A., W. Hopper 2017. Inhibition of advanced glycation end-product formation by quercetin and catechin: an alternative therapy for treating diabetic complications, Asian Journal of Pharmaceutical and Clinical Research 10(11):173-176.
8. Vijayasri S., W. Hopper 2017. Towards the identification of novel phytochemical leads as macrodomain inhibitors of Chikungunya Virus using molecular docking approach. Journal of Applied Pharmaceutical Science 7(4):74-82.
9. Chinnathambi R., V. Santhanam, M. Vadivelu, U.P. Ramachandran, W. Hopper 2017. Synthesis, crystal studies and pharmacological role prediction of 3-iodo-2methyl-1 phenyl sulfonyl-1H indole. Asian Journal of Pharmaceutical and Clinical Research 10(3):341-346.
10. Dineshkumar, K., V. Aparna, W. Hopper 2017. Ligand based-pharmacophore modeling and extended bioactivity prediction for salinosporamide A, B and C from marine actinomycetes *Salinispora tropica*. Combinatorial Chemistry & High Throughput Screening 20(1): 3-19. DOI:10.2174/1386207319666161215154128, (IF: 1.20).

11. Estrogen differentially regulates the expression of tyrosine hydroxylase and nerve growth factor through free radical generation in the thymus and mesenteric lymph nodes of

middle-aged ovariectomized female Sprague–Dawley rats Kishore Aravind Ravichandran, Sunil Karrunanithi, Lalgi Hima, Uday Pratap, Hannah Priyanka, Srinivasan Thyagarajan, Clinical and Experimental Neuroimmunology,2017, 8(4), DOI:10.1111/cen3.12415

12. Noni (Morinda citrifolia L.) fruit juice reverses age-related decline in neural-immune interactions in the spleens of old F344 rats Uday Pratap, Lalgi Hima, Hannah Priyanka, Srinivasan Thyagarajan, Journal of Ethonopharmacology 198, 2017,10.1016/j.jep.2017.01.034
13. Transforming growth factor-β1 regulation of ATF-3, c-Jun and JunB proteins for activation of matrix metalloproteinase-13 gene in human breast cancer cells Gokulnath M, Swetha R, Thejaswini G, Shilpa P, Selvamurugan N. (2017) International Journal of Biological Macromolecules 94: 370-377; Impact Factor: 5.162
14. Nanoceramics on osteoblast proliferation and differentiation in bone tissue engineering S SN, N S, D S, N S, Tsai WB, N S, R M, A M. (2017) International Journal of Biological Macromolecules 98: 67-74; Impact Factor: 5.162
15. Transforming factor-β1 regulation of ATF-3, c-Jun and JunB proteins for activation of matrix metalloproteinase-13 gene in human breast cancer cells M. Gokulnath, R. Swetha, G. Thejaswini, P. Shilpa and N. Selvamurugan (2017). International Journal of Biological Macromolecules 94: 370-377; Impact Factor: 5.162
16. Role of Runx2 in breast cancer-mediated bone metastasis M. Vishal, R. Swetha, G. Thejaswini, B. Arumugam and N. Selvamurugan (2017) International Journal of Biological Macromolecules 99: 608-614; Impact Factor: 5.162
17. MicroRNA-590-5p stabilizes Runx2 by targeting Smad7 during osteoblast differentiation M. Vishal, S. Vimalraj, R. Ajeetha, M. Gokulnath, R. Keerthana, Z. He, N. C. Partridge and N. Selvamurugan (2017) Journal of Cellular Physiology 232: 371-380; Impact factor: 5.546
18. Chitosan based nanofibers in bone tissue engineering K. Balagangadharan, S. Dhivya and N. Selvamurugan (2017) International Journal of Biological Macromolecules 104: 1372-1382; Impact Factor: 5.162
19. Scaffolds containing Chitosan, Gelatin and Graphene Oxide for Bone Tissue Regeneration *in vitro* and *in vivo* S. Saravanan, C. Anjali, M. Vairamani, T. P. Sastry, K. S. Subramanian and N. Selvamurugan (2017) International Journal of Biological Macromolecules 104: 1975-1982; Impact Factor: 5.162
20. Pulsed Electromagnetic Field Regulates MicroRNA21 Expression to Activate TGF-ß Signaling in Human Bone Marrow Stromal Cells to Enhance Osteoblast Differentiation N. Selvamurugan, Z. He, D. Rifkin, B. Dabovic and N. C. Partridge (2017) Stem Cell International 2017: 2450327; Impact Factor: 3.869

21. Alginate/Gelatin scaffolds incorporated with Silibin-loaded Chitosan nanoparticles for bone formation in vivo R. S. Leena, M. Vairamani and N. Selvamurugan (2017) Colloids Surface B Biointerfaces 158: 308-318; Impact factor: 4.389
22. Effect of H4R antagonist N-(2-aminoethyl)-5-chloro-1H-indol-2-carboxamides and 5-chloro-2-(piperazin-1-ylmethyl)-1H-benzimidazole on histamine and 4-methylhistamine-induced mast cell response (2017). Mariappanadar V, Tamizh M, Kaliappan I, Berla Thangam E. J Recept Signal Transduct Res. Jun;37(3):304-313. (IF: 2.2)
23. Effect of Ocimum tenuiflorum Linn Extract on Histamine Mediated Allergic Inflammation in Human Mast Cells (2017). Prakash A, Jemima Ebenezer A, Vasanth S, Nagarajan G, E. Berla Thangam. Journal of Biologically Active Products from Nature Fe 18:1-8.
24. Local and Systemic Profiles of Inflammatory Cytokines in Carrageenan-induced Paw Inflammation in Rats (2017). Annamalai P, E. Berla Thangam. Immunol Invest. Apr; 46(3):274-283. (IF: 2.511)
25. H4R activation utilizes distinct signaling pathways for the production of RANTES and IL-13 in human mast cells (2017). Angel Jemima E, Prema A and Berla Thangam E. J Recep Sig. Transd. Apr; 37(2):133-140. (IF : 2.2)
26. Nisha M, Saranyah K, Mukund S, Saleena LM Enhanced saccharification of lignocellulosic agricultural biomass and increased bioethanol titer using acclimated Clostridium thermocellum DSM1313 2017 3 Biotech 7:35
27. Investigation of cytotoxicity induced by Nigella sativa and Azadirachta indica using MDA-MB-231, HCT 116 and SHSY5Y cell lines_Banerjee S, PandeyS, Mukherjee P, Sayeed A, Pandurangi AV, George S, Sheik Mohideen S. (2017) Pharmacognosy Journal, 192-195, 9:2 (SNIP 0.5)

28. Sireesh D, Ganesh MR, Dhamodharan U, Sakthivadivel M, Sivasubramanian S, Gunasekaran P, Ramkumar KM*. Role of pterostilbene in attenuating immune mediated devastation of pancreatic beta cells via Nrf2 signaling cascade. Journal of Nutritional Biochemistry, 2017; 44: 11-21. (I.F.: 4.87; Citation: 38)

29. Sarvani C, Sireesh D, Ramkumar KM*. Unraveling the role of ER stress inhibitors in the context of metabolic diseases. Pharmacological Research, 2017;119:412-421. (I.F.: 5.89; Citation: 32)

30. Dhamodharan U, Ezhilarasi K, Ponjayanthi B, Sireesh D, Ramkumar KM*, Viswanathan V*. Association of A1538G and C2437T single nucleotide polymorphisms in heat shock protein-70 genes with diabetic nephropathy among South Indian population. Bioscience Reports, 2017; 27;37(2):1-9. (I.F.: 2.94, Citation: 10)

31. Bojan Magesh S, Rashmi R, Ramkumar KM, Suryanarayanan S, Venkata SubbaRao M. Acetyl-L-Carnitine Restores Abnormal Lipid Metabolism Induced by 2,3,7,8-

Tetrachlorodibenzo-p-dioxin in Mice. Biomedical and Pharmacology Journal 2017; 10(02):569-576. (Citation: 1)

32. Vanitha P, Senthilkumar S, Dornadula S, Anandhakumar S, Rajaguru P, Ramkumar KM*. Morin activates the Nrf2-ARE pathway and reduces oxidative stress-induced DNA damage in pancreatic beta cells. European Journal of Pharmacology, 2017;801:9-18 (I.F.: 3.26; Citation: 35)

33. Anandhakumar S*, Krishnamoorthy G, Ramkumar KM, Raichur AM. Preparation of collagen peptide functionalized chitosan nanoparticles by ionic gelation method: An effective carrier system for encapsulation and release of doxorubicin for cancer drug delivery. Materials Science and Engineering: C, 2017;70: 378-385 (I.F.: 5.88, Citation: 66)

34. Subhashini S., S. Narayanan, Karthika Rejani, Ajee Taksha Kamath, D. Harshavardini Kamak, A. Aravind, 2017, "Studies on the *in vitro* antihepatotoxic activity of *Indigofera tinctoria* (Linn.) against Hep G2 Human liver carcinoma cell lines," Journal of Pharmacy Research, 11(9)1086-1094. Impact Factor: 2.36

35. Subhashini S. and Pandimadevi M., 2017, "Studies on the *in vitro* anticancer activity of *Tabernaemontana divaricata* extract against colon cancer cell line," International Journal of Pharma and Biosciences, 8(2): (B) 316- 323.
36. Anvy Susan Thomas, Rupachandra Saravanakumar, Pratiksha V. Gupta, "Evaluation of cytotoxic activity of protein extracts from the leaves of *Morinda pubescens* on human cancer cell lines", Revista Brasileira de Farmacognosia, 27, 99-104, 2017, (Scopus indexed, IF – 1.754, SNIP- 1.062).
37. Shekhar S, Sood S, Showkat S, Lite C, Chandrasekar A, Vairamani M, Barathi S, Santosh W,(2017) Detection of phenolic endocrine disrupting chemicals (EDCs) from maternal blood plasma and amniotic fluid in Indian population, General and Comparative Endocrinology, 241:100-107.
38. Vrinda Y D, Karthikeyan P S, Lite C, Barathi S, Santosh W, "Developmental toxicity and induction of vitellogenin in embryo-larval stages of zebrafish (Danio rerio) exposed to methyl Paraben"(2017) Ecotoxicology and Environmental Safety 141: 113-118.
39. Jade Dhananjay D, Ramamoorthi G, Janani K, Venkatesan K, Sivalingam N. Curcumin inhibits growth potential by G1 cell cycle arrest and induces apoptosis in p53-mutated COLO 320DM human colon adenocarcinoma cells. Biomed Pharmacother. 86:373-380, 2017.

40. Felicia Katherine. R, Muthukumaran.G, Sharmila. G, Manoj Kumar. N, Tamilarasan.K and R. Jaiganesh,2017. Xanthan gum production using jackfruitseed-powder- based medium: optimization and characterization. 3 Biotech, 7:1-10.

41. D Jothinathan, Richard Thilagaraj Wilson, “Production of bioelectricity in MFC by *Pseudomonas fragi* DRR-2 (psychrophilic) isolated from goat rumen fluid”, Energy Sources, Part A: Recovery, Utilization, and Environmental Effect, 39: 433-440, (2017).
42. 2. D Jothinathan, Richard Thilagaraj Wilson, “Comparative analysis of power production of pure, coculture, and mixed culture in a microbial fuel cell”, Energy Sources, Part A: Recovery, Utilization, and Environmental Effect, 39: 520 – 527, (2017).
43. 3. D Jothinathan, Richard Thilagaraj Wilson, “Performance of *Paracoccus homiensis* DRR-3 in Microbial fuel cell with membranes”, International Journal of Ambient Energy, 10 : 1-8, (2017).
44. 4. D Jothinathan, Richard Thilagaraj Wilson, “Degradation of oleic acid and simultaneous bioelectricity production by *Klebsiella oxytoca* ADR”, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 39: 874 – 882, (2017).
45. Gouri Chaudhuri, P. Venu-Babu, W. Richard Thilagaraj, “A new approach using Polyvinylidene Difluoride (PVDF) Embedded Calf Intestinal Alkaline Phosphatase for Uranium Bioprecipitation’, International Journal of Environmental Science and Technology, (2017).
46. Chokkalingam Priya, Ganessin Aravind, Richard Thilagaraj Wilson, “Prevalence of *Bacillus sp.* among the biofilm forming community on Ti surface in marine environment”, Acta Oceanologica Sinica, (2017).
47. Gouri Chaudhuri, P. Venu-Babu, W. Richard Thilagaraj Gouri Chaudhuri, P. Venu-Babu, W. Richard Thilagaraj , A Chapter on “Recent Trends in Phosphatase-Mediated Bioremediation” Phosphoric Acid Industry – Problems and Solutions, Intech Open Science Publications, (2017).
48. Kannan Radhakrishnan, Sruthi Kalyanasundharam, Nandini Ravichandran, Subramanian Thiyagarajan & Wilson Richard Thilagaraj, “A novel method of unburned hydrocarbons and NOx gases capture from vehicular exhaust using natural biosorbent” Separation Science and Technology, (2017).
49. Ultrasound assisted enhanced extraction of lutein (β, ε-carotene3, 3'-diol) from Mircroalga (Chlorella pyrenoidosa) grown in wastewater: Optimization through Response Surface Methodology Arun J, Avinash U., Arun Krishna B, Pandimadevi M. and Gopinath K.P, Global Nest Journal, 2017, 19(4), 574-583
50. Studies on the invitro anticancer of tabenamontana divaricata extract against colon cancer cell line, S.Subhashini and M.Pandiamadevi, International Journal of Pharma and Biosciences, 2017, 8(2), 316-323, DOI: http://dx.doi.org/10.22376/ijpbs.2017.8.2.b316-323
51. Chia-Hung Su, G. Venkat Kumar, S. Adhikary, P. Velusamy*, K. Pandian, P. Anbu, (2017). Preparation of cotton fabric using sodium alginate-coated nanoparticles to protect against nosocomial pathogens. Biochemical Engineering Journal. Vol. 117, 15: 28–35.

52. 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. Vol. 102, 173–183.

53. V. Gopinath, S. Priyadarshini, M F Loke, J. Arunkumar, E. Marsili, D. MubarakAli, P. Velusamy*, J. Vadivelu, 2017. Biogenic synthesis, characterization of antibacterial silver nanoparticles and its cell cytotoxicity. Arabian Journal of Chemistry. Vol. 10,: 1107-1117

54. Chia-Hung Su, P. Velusamy*, G. Venkat Kumar, S. Adhikary, K. Pandian, P. Anbu, 2017. Studies of antibacterial efficacy of different biopolymer protected silver nanoparticles synthesized under reflux condition. Journal of Molecular Structure. Vol. 57, 15: 8–15.

55. Sangeetha KN, **Sujatha S**, Muthusamy VS, Anand S, Shilpa K, Kumari PJ, Sarathkumar B, Thiyagarajan G, Lakshmi BS. Current trends in small molecule discovery targeting key cellular signaling events towards the combined management of diabetes and obesity. **Bioinformation.** 2017 Dec 31;13(12) pp.394-399. (IF: 1.52)

56. Kamaraj N., Rajaguru P.Y., Issac P.K., **Sujatha S**. Fabrication, characterization, in vitro drug release and glucose uptake activity of 14-deoxy, 11, 12-didehydroandrographolide loaded polycaprolactone nanoparticles, **Asian journal of pharmaceutical sciences.** 12 (2017) no. 4, pp.353-362. (IF: 3.968)

57. Nagalakshmi K, Alwin D, **Sujatha S.** DDA loaded PCL nanoparticles enhances the oral bioavailability of DDA in diabetes induced experimental rats. **International journal of pharmacy and pharmaceutical sciences.** 9 (2017), pp.198-202. (IF: 1.32)

58. Praveen Kumar I, Isaan M, Alwin D, **Sujatha S**. Antihyperglycemic and antihyperlipidemic activity of Jatropha gossypifolia methanolic extract in streptozotocin-nicotinamide induced diabetic rats. **Asian journal of pharmaceutical and clinical research.**10 (2017)11,pp.326-330. (SNIP: 0.66)

59. Nagalakshmi k., **Sujatha S.** Nanoencapsulation augments release efficacy and glucose tolerance of 14-deoxy, 11, 12-didehydro andrographolide loaded polycaprolactone nanoparticles in streptozotocin-nicotinamide induced type 2 diabetes, **International journal of applied pharmaceutics.** vol. 9, (2017) no. 6, pp.51-53. (IF: 1.26)

60. Sanjana Chandran, Meenakumari Sakthivel, Munusamy Thirumavalavan, Jagadeshwar Reddy Thota, Vairamani Mariappanadar and **Pachaiappan Raman** (2017) "A facile approach to the isolation of proteins in Ferula asafoetida andtheir enzyme stabilizing,

anti-microbial and anti-oxidant activity" *International Journal of Biological Macromolecules* Vol. 102, pp. 1211–1219, http://dx.doi.org/10.1016/j.ijbiomac.2017.05.010. ***Impact Factor: 5.162***

61. Christopher Meera, Sakthivel Meenakumari, Munusamy Thirumavalavan and **Raman Pachaiappan** (2017) "Isolation and characterization of α-amylase inhibitor from *Leucas aspera* (Willd) Link: α- amylase assay combined with FPLC chromatography for expedited identification" *J. Plant Biochem. Biotechnol.* Vol. 26 (3), pp. 346 - 355 DOI 10.1007/s13562-017-0397-7*(January 2017) IF* 1.352.

62. Vijayakumar. S, 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* Vol. 102, pp. 173-183 http://dx.doi.org/10.1016/j.micpath.2016.11.029 *(December 2016) IF 2.914*
63. Deepa priya Ramadoss, **Sivalingam N**. Vanillin extracted from proso millet and barnyard millet induce apoptosis in HT-29 and MCF-7 cell line through mitochondria mediated pathway. Asian J Pharm Clin Res, Vol 10, Issue 12, 2017, 226-229
64. Jade Dhananjay D, Ramamoorthi G, Janani K, Venkatesan K, **Sivalingam N**. Curcumin inhibits growth potential by G1 cell cycle arrest and induces apoptosis in p53-mutated COLO 320DM human colon adenocarcinoma cells. Biomed Pharmacother. 2017 Feb;86:373-380. http://dx.doi.org/10.1016/j.biopha.2016.12.034. **Impact factor : 2.326**
65. Hepziba Suganthi S, **Ramani Kandasamy***. A novel single step synthesis and surface functionalization of iron oxide magnetic nanoparticles and thereof for the copper removal from pigment industry effluent. *Separation and Purification Technology,* 188 (2017) 458–467. https://doi.org/10.1016/j.seppur.2017.07.059 (IF: 5.107)
66. Ba S., **Kumar V.V.,** (2017) "Recent developments in the use of tyrosinase and laccase in environmental applications", *Critical Reviews in Biotechnology*, 22, 1-14. (IF – 8.108) https://doi.org/10.1080/07388551.2016.1261081
67. Vandana M.J. Shriaiaishvarya K.R., Thekkudan V.N., Hridya R., **Kumar V.V.,** (2017) "Mesoporous titanium dioxide nanocatalyst: A recyclable approach for one-pot synthesis of 5-hydroxymethylfurfural", *IET Nanobiotechnology*, 11(6), 690-694. (IF – 1.859) https://doi.org/10.1049/iet-nbt.2016.0216
68. Batista-García R.A., **Kumar V.V,** Ariste A, Tovar-Herrera O.E., Savary O., Cabana H., Herrera-Estrella A., Folch-Mallol J.L. (2017) Simple screening protocol for identification of potential mycoremediation tools for the elimination of polycyclic aromatic hydrocarbons and phenols from hyperalkalophile industrial effluents, *Journal of*

Environmental Management, 198, 1-11. (IF – 5.647) https://doi.org/10.1016/j.jenvman.2017.05.010

69. Vishnu D., Neeraj G., Swaroopini R., Shobana R., **Kumar V. V.**, Cabana H. (2017) "Synergetic integration of laccase and versatile peroxidase with magnetic silica microspheres towards remediation of biorefinery wastewater", *Environment Science and Pollution Research*, 24(22), 17993-18009. (IF – 3.056) https://doi.org/10.1007/s11356-017-9318-5
70. Kumar M.A., Zamana P.A., **Kumar V.V.,** Baskaralingam P., Thiruvengadaravi K.V., Amudha T., Sivanesan S., (2017) "*Achromobacter xylosoxidans* strain APZ for phthalocyanine dye degradation: Chemo-metric optimization and canonical correlation analyses", *Journal of Water Process Engineering*, 18: 73-82. (IF – 3.465) https://doi.org/10.1016/j.jwpe.2017.06.005
71. Kumar M. A., Poonam S., **Kumar V.V.,** Baskar G., Seenuvasan M., Anuradha D., Sivanesan S., (2017) "Mineralization of aromatic amines liberated during the degradation of a sulfonated textile colorant using *Klebsiella pneumoniae* strain AHM", *Process Biochemistry*, 57, 181-189. (IF – 2.95) https://doi.org/10.1016/j.procbio.2017.03.012
72. Saravanan A, Sundar Rajan P, Kumar, P.S., **Kumar V.V.** (2017) "Surface adsorption of poisonous Pb (II) ions from water using chitosan functionalized magnetic nanoparticles". *IET Nanobiotechnology*, 11(4), 433-442. (IF – 1.859) https://doi.org/10.1049/iet-nbt.2016.0166
73. Vinni N. T., Christy C., Sailavanya S., Kumar S.S., **Kumar V. V.** (2017) "Review on nanoadsorbents: A solution for heavy metal removal from waste water", *IET Nanobiotechnology*, 11(3), 213-224. (IF – 1.859) https://doi.org/10.1049/iet-nbt.2015.0114
74. Kumar M.A., Vigneshwaran G., Priya E.M., Seenuvasan M., **Kumar V. V.,** Anuradha D., Sivanesan S. (2017) "Concocted bacterial consortium for the detoxification and mineralization of azoic-cum-sulfonic textile mill effluent" *Journal of Water Process Engineering*, 16, 199–205. (IF – 3.465) https://doi.org/10.1016/j.jwpe.2017.01.008
75. Kumar M.A., Harthy D.K., **Kumar V.V,** Balashri K.G., Seenuvasan M., Anuradha D., Sivanesan S., (2017) "Detoxification of a triphenylmethane textile colorant using acclimated cells of *Bacillus mannanilyticus* strain AVS", *Environment Progress and Sustainable Energy*, 36(2), 394-403. (IF – 1.989) https://doi.org/10.1002/ep.12469
76. Komal J, Kumar M.A., Thiruvengadaravi K.V., Nilavunesan D, **Kumar V.V,** Seenuvasan M., Sivanesan S., (2017) "Indigenously acclimatized bacterial consortium for anthracene biotransformation", *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 39(5), 528-537. (IF – 1.18) https://doi.org/10.1080/15567036.2016.1235060
77. Seenuvasan M, Sanjayini S.J., Kumar M.A., Vinodhini G, **Kumar V. V.**, (2017) "Cellulase-mediated saccharification of lignocellulosic-rich pseudostem of *Musa cavendish* for bio-ethanol production by *Saccharomyces cerevisiae* MTCC 4779", *Energy*

Sources, Part A: Recovery, Utilization, and Environmental Effects, 39(5), 570-575. (IF – 1.18) https://doi.org/10.1080/15567036.2016.1246626

78. SanjanaChandran, MeenakumariSakthivel, MunusamyThirumavalavan, Jagadeshwar Reddy Thota, VairamaniMariappanadar and **Pachaiappan Raman** (2017) "A facile approach to the isolation of proteins in Ferula asafoetidaandtheir enzyme stabilizing, anti-microbial and anti-oxidant activity" *International Journal of Biological Macromolecules* Vol. 102, pp. 1211–1219, http://dx.doi.org/10.1016/j.ijbiomac.2017.05.010. ***Impact Factor: 5.162***

79. Christopher Meera, SakthivelMeenakumari, MunusamyThirumavalavan and **Raman Pachaiappan**(2017) "Isolation and characterization of α-amylase inhibitor from *Leucasaspera* (Willd) Link: α- amylase assay combined with FPLC chromatography for expedited identification" *J. Plant Biochem. Biotechnol.* Vol. 26 (3), pp. 346 - 355 DOI 10.1007/s13562-017-0397-7*(January 2017) IF* 1.352.
80. Annanya Dutta, Debashis Dhara, Pravat Kumar Parida, Anshupriya Si, **Ravichandran Yesuvadian,** Kuladip Jana, Anup Kumar Mishra. C-Glycosylated cinnamoylfuron derivatives as navel anti-cancer agents. RSC Advances. 2017,7, 28853-28864.
81. K.Ganesh, R.Soumen, **Y. Ravichandran**, Janarthan. Dynamic approach to predict pH profiles of biologically relevant buffers. Biochemistry and Biophysics Reports. 9(2017)121-127.
82. Ramya Devi. K. T (2017). Insulin secretagogue activity and inhibitory effects of Cichorium intybus on Streptozotocin- induced pancreatic β cell damage in vitro in RINm5F cells, International Journal of ChemTech research, 10(4), p 489-493. SNIP: 0.6
83. K. Sudha, Rani John and **T.R. Sivashankari** (2017). Extracellular L-asparaginase production by halotolerant strain of *Enterobacter hormaechei* isolated from marine fishes, International Journal of Advanced Research (IJAR), vol. 5(1), 2619-2625

84. Evaluation of Cardiospermum halicacabum leaf compounds against human DihydroOrotate dehydrogenase: A target for rheumatoid arthritis using structure based drug designing **Swaminathan P,** LM Saleena,(2017), Journal of Applied Pharmaceutical Science, 7(08), 048-061.(**SNIP: 0.608)**
85. E-pharmacophore screening and induced fit docking of phytocompounds against human dihydroorotate dehydrogenase **Swaminathan P**, International Journal of Pharma and Bio Sciences, (2017), 8, (1), B641-E647.(**SNIP:0.182**)
86. **G.Dhanavathy,** S. Jayakumar. Acute and subchronic toxicity studies of swertiamarin a lead compound isolated from *Enicostemma littorale*.Blume in Wistar rats. Bioscience Biotechnology Research Asia, 14(1), 381-390, 2017.
87. Ramachandran K, Palaniyandi K, **Dhanavathy G*,** Jayakumar S. Biomarker studies of swertiamarin a lead from *Enicostemma littorale*. Blume in Streptozotocin - induced diabetic rats. Proceedings of the national seminar on Biomarkers: From research to

Clinical practice (BRCP-2017), Allied publishers Pvt. Ltd. ISBN: 978-93-87380-28-8, 71-87, 2017.[*Corresponding author].

88. **Vasantharekha, R**., Priyanka, H.P., Swarnalingam, T., Srinivasan, A.V., Thyagarajan, S. (2017) Interrelationship between Mini-Mental State Examination scores and biochemical parameters in patients with mild cognitive impairment and Alzheimer's disease. Geriatrics & Gerontology International, 17 (10), 1737-1745.
89. Amala Reddy, Free radical quenching efficacy of various extracts of costus pictus to combat oxidative damage/stress: An in vitro study, Asian Journal of Pharmaceutical and Clinical Research VOL:10(2),pp. 178-18,12017.
90. Amala Reddy, New insights in the management of metabolic disorder in pharmacology: A review with reference to Adathoda vasica for Diabetes mellitus ISBN:1478-6419, Taylor & Francis, 2017 (Book chapter).
91. Mary Lazer L, Sadhasivam B, **Palaniyandi K**, Muthuswamy T, Ramachandran I, Balakrishnan A, Pathak S, Narayan S, Ramalingam S. Chitosan-based nano-formulation enhances the anticancer efficacy of hesperetin. **Int J Biol Macromol**. 2017 Oct 13. **Impact factor 3.7.**
92. Ramachandran K, **Palaniyandi K**, Dhanavathy G**,** Jayakumar S. Biomaraker studies of swertiamarin a lead from Enicostemma littorale. Blume in Streptozotocin - induced diabetic rats. Proceedings of the national seminar on Biomarkers: From research to Clinical practice, ISBN: 978-93-87380-28-8, 71-87, 2017 (BRCP-2017), Allied publishers Pvt. Ltd.
93. Susan Aishwarya S, Iyappan S, Vijaya Lakshmi K, Rajnish KN **(2017).** In silico analysis, molecular cloning, expression and characterization of l-asparaginase gene from Lactobacillus reuteri DSM 20016. 3 Biotech. 7(5):348
94. Rathinasabapthi Pasupathi **(2017)**. "Rapid detection of the flic-d gene of Salmonella typhi using loop-mediated isothermal amplification". Research Journal of Biotechnology, 12 (7), 7-10
95. Ramakrishnan GS, Fathima AA, Ramya M**. (2017)**. "A rapid and efficient DNA extraction method suitable for marine macroalgae". 3 Biotech. 7(6):364. doi: 10.1007/s13205-017-0992-2.
96. C Kavyasudha, M Ramya, M Parani **(2017).** "Quantitative and qualitative evaluation of three commercial probiotic products from India". Research Journal of Biotechnology 12 (12), 69-74.
97. Thangarathinam Kumar, Mohandass Ramya, Viswanathan Srinivasan and N Xavier **(2017)**. "A Simple and Direct LC-MS Method for Determination of Genotoxic Impurity Hydroxylamine in Pharmaceutical compounds". Journal of Chromatographic Science, 21: 1-7 doi: 10.1093/chromsci/bmx019.
98. Shobana, S **(2017)**. "Virtual screening, pharmacophore modeling, and quantitative structure activity relationship studies on histamine 4 receptor". Asian j pharm clin res, 10(12), 150-154.

99. Santhosh N, Sathya B, Sohn H, Devaraju P, Madhavan T. **(2017)** "3D-QSAR studies on indole and 7-azoindole derivatives as ROCK-2 inhibitors: An integrative computational approach". Comput Biol Chem. 71:104-116
100. Santhosh N, Sathya B, Madhavan T. **(2017)**."Theoretical analysis of somatostatin receptor 5 with antagonists and agonists for the treatment of neuroendocrine tumors". Molecular Diversity. 21:367-384
101. Manju Latha G, Mohapatra T, Swapna Geetanjali **A**, KRS Sambasiva Rao (2017) Engineering rice for abiotic stress tolerance: A review. Current trends in biotechnology and pharmacy-11(4):396-413
102. Shashikant G, Arul Jothi KN and **Devi A. (2017)** Recent Advances in Therapeutic Approaches for Familial Hypercholesterolemia. Genom. & Gene Ther. Int. J**.** 1(1): 1-3.
103. Macrin D, Joseph JP, Pillai AA, Devi A. **(2017)** "Eminent Sources of Adult Mesenchymal Stem Cells and Their Therapeutic Imminence". Stem Cell Rev Rep**.**
104. Arul Jothi KN, Abhinaya M, Sruthi AbiramEi B, George Melvin, Elangovan S, **Devi A. (2017)** SCARB 1 rs5888 c.1050 C>T polymorphism and the risk of hypercholesterolemia and myocardial infarction in Indian Tamil population. ***Pakistan J. Zool.,*** (2017). 49(3):1019-1024.http://dx.doi.org/10.17582/journal.pjz/2017.49.3.1019.1024

2016

1. Vimalraj, S., Saravanan, S., Vairamani, M., Gopalakrishnan, C., Sastry, T.P., Selvamurugan, N. A Combinatorial effect of carboxymethyl cellulose based scaffold and microRNA-15b on osteoblast differentiation (2016) International Journal of Biological Macromolecules, 93, pp. 1457-1464.
2. Nisha, M., Shankar, M., Krishnan, N., Saleena, L.M., Rajesh, M., Vairamani, M. Direct estimation of ethanol as a negative peak from alcoholic beverages and fermentation broths by reversed phase-HPLC (2016) Analytical Methods, 8 (23), pp. 4762-4770.
3. 3. Jeyanthi, V., Anbu, P., Vairamani, M., Velusamy, P. Isolation of hydroquinone (benzene-1,4-diol) metabolite from halotolerant Bacillus methylotrophicus MHC10 and its inhibitory activity towards bacterial pathogens (2016) Bioprocess and Biosystems Engineering, 39 (3), pp. 429-439.
4. Ila Joshi, Sekar Sudhakar, and Rasool Abdul Nazeer, 2016. Anti-inflammatory properties of bioactive peptide derived from gastropod influenced by enzymatic hydrolysis. Applied Biochemistry and Biotechnology, 180:6; 1128-1140. (DOI: 10.1007/s12010-016-2156-y).
5. Bhakkiyalakshmi E., D. Kesavan, K. Suresh, S. Dornadulla, W. Hopper, R. Paulmurugan, K.M. Ramkumar 2016. Pterostilbene-mediated Nrf2 activation: Mechanistic Insights on Keap1:Nrf2 Interface. Bioorganic & Medicinal Chemistry 24(16): 3378-3386. DOI:10.1016/j.bmc.2016.05.011, (IF: 2.923).
6. Thyagaraj A., J.S. Sunny, W. Hopper 2016. Effect of Toll-like receptor inhibitor imiquimod on IL1R1 interaction with IL-1RA and its SNP variant - an *in silico* approach. International Journal of Pharmacy and Pharmaceutical Sciences 8(5):109-112.
7. Vijayasri S., H. Archana, A. Agrawal, W. Hopper 2016. Computational analysis of interactions between anti-epileptic drugs and important placental proteins-a possible route for neural tube defects in humans. International Journal of Pharmacy and Pharmaceutical Sciences 8(S1):19-23.
8. Gayathri G., K. Vijayalakshmi, T. Tamilvanan, W. Hopper 2016. Anti-cancer activity of secondary metabolites from *Bauhinia variegata* Linn. Leaf – an *in silico* approach. Indo American Journal of Pharmaceutical Research 6(7):6299-6311.

9. Interrelationship between Mini-Mental State Examination scores and biochemical parameters in patients with mild cognitive impairment and Alzheimer's disease: Biochemical factors linked to MCI and AD Vasatharekha Ramasamy, Hannah Priyanka, Thangavel Swarnalingam,Avathvadi Venkatesan Srinivasan, Srinivasan Thayagarajan, Geriatrics and Gerentology International 2016,17(3), DOI: 10.1111/ggi.12957

10. A combinatorial effect of carboxymethyl cellulose based scaffold and microRNA15b on osteoblast differentiation S. Vimalraj, S. Saravanan, M. Vairamani, C. Gopalakrishnan, T. P. Sastry and N. Selvamurugan (2016) International journal of biological macromolecules 93: 1457-1464; Impact factor: 5.162

11. Chitosan based biocomposite scaffolds for bone tissue engineering S. Saravanan, R. S. Leena and N. Selvamurugan (2016) International journal of biological macromolecules 93: 1354-1365; Impact factor: 5.162
12. Regulation of Runx2 by Histone Deacetylases in Bone M. Vishal, R. Ajeetha, R. Keerthana and N. Selvamurugan (2016) Current Protein & Peptide Science 17: 343-351; Impact Factor: 2.520
13. Guar gum succinate-sodium alginate beads as a pH-sensitive carrier for colon-specific drug delivery D. S. Seeli, S. Dhivya, N. Selvamurugan and M. Prabaharan (2016) International Journal of Biological Macromolecules 91: 45-50; Impact Factor: 5.162
14. A review on chitosan and its derivatives in bone tissue engineering R. LogithKumar, A. KeshavNarayan, S. Dhivya, A. Chawla, S. Saravanan and N. Selvamurugan (2016) Carbohydrate Polymers 151: 172-188; Impact factor: 7.182
15. Bioactive mesoporous wollastonite particles for bone tissue engineering S. Saravanan and N. Selvamurugan (2016) Journal of Tissue Engineering 7: 2041731416680319; Impact factor: 3.370
16. Antibacterial activity of agricultural waste derived wollastonite doped with copper for bone tissue engineering S. Azeena, N. Subhapradha, N. Selvamurugan, S. Narayan, N. Srinivasan, R. Murugesan, T. W. Chung and A. Moorthi (2016) Materials Science and Engineering 71: 1156-1165; Impact Factor: 5.880
17. TLR2 and TLR4 co-activation utilizes distinct signaling pathways for the production of Th1/Th2/Th17 cytokines in neonatal immune cells (2016). Sugitharini V, Shahana P, Prema A, Berla Thangam E. Cytokine Sep; 85, 191–200. (IF: 3.488)
18. Saranyah K, Nisha M and Saleena LM Genetic Engineering of *Closteridium thermocellum* DSM1313 for enhanced ethanol production 2016 BMC Biotechnology 2016; (16):34
19. Bhakkiyalakshmi E, Dineshkumar K, Karthik S, Sireesh D, Waheetha Hooper, Paulmurugan R, Ramkumar KM*. Pterostilbene-mediated Nrf2 activation: Mechanistic Insights on Nrf2:Keap1 Interface. Bioorganic & Medicinal Chemistry, 2016; 24(16):3378–3386 (I.F.: 3.07, Citation: 42)

20. Suganya N, Bhakkiyalakshmi E, Sarada DVL, Ramkumar KM*. Reversibility of Endothelial Dysfunction in Diabetes: Role of Polyphenols. British Journal of Nutrition, 2016; 116(2):223-246 (I.F.: 3.33; Citation: 73)

21. Bhakkiyalakshmi E, Sireesh D, Sakthivadivel M, Sivasubramanian S, Gunasekaran P, Ramkumar KM*. Anti-hyperlipidemic and anti-peroxidative role of pterostilbene via Nrf2 signaling in experimental diabetes. European Journal of Pharmacology, 2016; 777:9-16 (I.F.: 3.26; Citation: 50)

22. Bhakkiyalakshmi E, Sireesh D, Paulmurugan R, Ramkumar KM*. Pterostilbene ameliorates streptozotocin-induced diabetes through enhancing antioxidant signaling

pathways mediated by Nrf2. ACS- Chemical Research in Toxicology, 2016; 29(1):47-57 (I.F.: 3.27; Citation: 47)

23. Bhakkiyalakshmi E, Suganya N, Sireesh D, Krishnamurthi K, Devi S, Rajaguru P, Paulmurugan R, Ramkumar KM*. Carvacrol induces mitochondria-mediated apoptosis in HL-60 promyelocytic and Jurkat T lymphoma cells. European Journal of Pharmacology 2016; 772:92-8 (I.F.: 3.26, Citation: 17)

24. Rajshree R*, Kamalakshi K, Lakshmi B, Ramkumar KM. Genetic portrait of Tamil non-tribal and Irula tribal population using Y chromosome STR markers. International Journal of Legal Medicine, 2016; 130: 367–369 (I.F.: 2.22; Citation: 2)

25. Gayathri Sukumar , Divyalakshmi D , Mithula S , and Rupachandra S, "*In vitro* anticancer effects of methanolic seed coat extract of *Momordica dioica* against human carcinoma cell lines", International Journal of ChemTech Research (Scopus indexed, SNIP- 0.598), 9:2, 284-289, 2016.
26. Vinoth Kumar S and Barathi S, (2016) Molecular identification of parakeet species by mitochondrial cytochrome B marker, International Journal of Pharma. and Bio. Sciences 7(4): 435-442.

27. Ramya Nair, Winkins Santosh, Barathi S, (2016) Health Hazards of Dioxins, ISSRF Newsletter - Environmental Impacts on Reproductive Health, 18:45-46.
28. JMK Rajeswari. S, Jaiganesh. R, Muthukumar. R, . Isolation and characterization of an agarase producing bacteria from marine sediment. Int J Chemtech Res. 2016;9:437-6.

29. Rajeswari. S, Jaiganesh. R, Muthukumar. R and M.K.Jaganathan, 2016. Isolation and Characterization of an Agarase Producing Bacteria from Marine Sediment. International Journal of ChemTech Research, 9(9): 437-446.
30. Uma Selvaraj, Richard Thilagaraj, "Site-Directed Mutagenesis on Alkaline Phosphatase from *Pseudomonas aeruginosa* (PAO1) for Enhanced Activity", Int J. Pharm Bio Sci., 7(4): (B) 877 – 884, (2016).
31. Priya Mohan, Richard Thilagaraj, "Efficiency of surface modified Ti coated with copper nanoparticles to control marine bacterial adhesion under laboratory simulated condition". Bull. Mater. Sci. (2016).
32. Radhakrishnan KannanSethuraman LakshmiNatarajan AparnaSivaraman Prabhakar and Wilson Richard Thilagaraj, "Eco-friendly treatment of textile dye from aqueous solution using encapsulated biosorbent matrix beads: kinetics and breakthrough analysis. International Journal of Industrial Chemistry, 7(3): 265–275, (2016).
33. Radhakrishnan KannanSethuraman LakshmiNatarajan AparnaSivaraman Prabhakar and Wilson Richard Thilagaraj, "Biosorption of heavy metals from actual electroplating wastewater using encapsulated Moringa oleifera beads in fixed bed column". Journal Desalination and Water Treatment, (2016).

34. Simulation Model for feasibility studies of bioremediation of Uranium mill tailings using hyper accumulator Chrysopogon zizanoides H. Shanmugasundaram[1], Sathesh Kumar Annamalai[1], Kantha Deivi Arunachalam[1], V.N. Jha[2], N.K. Sethy[2], K. Sivasubramaniam[3], H. Krishnan[3] and M. Pandima Devi, American Journal of Environmental Sciences, 2016, 12(6), 370-378, DOI: https://doi.org/10.3844/ajessp.2016.370.378

35. Recovery of Metals from Printed circuit boards (PCBs) using a combination of hydrometallurgical and biometallurgical process, Harikrushnan Balasubramanian, Shreyass G, Hemant G, Pandimadevi Muthuraman, International Journal of Environmental Research, 2016, 10(4), 511-518, DOII 10.22059/IJER.2016.59679

36. Green synthesis of silver nanoparticles from *Azadirachta indica* and *ocimum sanctum* and their antimicrobial efficacy M Pandimadevi, International Journal of Pharma and Biosciences, 2016, 7(4), 38-46, DOI: https://doi.org/10.22376/ijpbs.2016.7.4.p38-46

37. Preparation and Characterization of Biomaterial from Collagen, Chitosan and Hibiscus rosa-sinensis Nanoparticles Pandimadevi M, Sandhiya C, Nandhini DP, International Journal of Pharmaceutical Sciences Review and Research, 2016, 38(2), 190-197

38. In vitro studies on the wound dressing prepared using collagen and teak leaves (Tectonagrandis) Pandima Devi M* Trikkurmadom Seetharaman Amritha, VijiChandran S, Rajalekshmy G, Journal of Pharmacy Research 2016, 10 (2), 90-98

39. P. Velusamy*, G. Venkat Kumar, V. Jeyanthi, **J. Das**, R. Pachaiappan. Bio-inspired green nanoparticles: synthesis, mechanism, and antibacterial application. Toxicological Research. 32 (**2016**) 95-102. **SNIP – 1.1** http://www.toxicolres.org/journal/view.html?doi=10.5487/TR.2016.32.2.095

40. M. Anjugam, A. Iswarya, T, Indumathi, B. Vaseeharan, R. Pachaiappan, N. Gopi, and P. Velusamy, 2016 Antibiofilm Competency of Portunus pelagicus Haemolymph and Identification of its Bioactive Compounds. Journal of Aquaculture Research & Development. Vol. 7: 444.

41. G. Venkat Kumar, Chia-Hung Su, P. Velusamy*, 2016. Surface immobilization of kanamycin-chitosan nanoparticles on polyurethane ureteral stent to prevent bacterial adhesion. Biofouling. Vol. 32: 861-870.

42. G. Venkat Kumar, Chia-Hung Su, P. Velusamy*, 2016. Preparation and characterization of kanamycin-chitosan nanoparticles to improve the efficacy of antibacterial activity against nosocomial pathogens. Journal of the Taiwan Institute of Chemical Engineers. Vol. 65: 574-583.

43. P. Velusamy*, Chia-Hung Su, A. Shritama, G. Venkat Kumar, K. Pandian, 2016. Biopolymers regulate silver nanoparticle under microwave irradiation for effective antibacterial and antibiofilm activities. PLoS One Vol. 11(6): e0157612

44. G. Venkat Kumar, Chia-Hung Su, P. Velusamy*, 2016. Ciprofloxacin loaded genipin cross-linked chitosan/heparin nanoparticles for drug delivery application. Materials Letters. Vol. 180: 119-122.
45. P. Velusamy*, G. Venkat Kumar, V. Jeyanthi, J. Das, and R. Pachaiappan, 2016. Bio-Inspired green nanoparticles: Synthesis, mechanism, and antibacterial application. Toxicological Research. Vol. 32: 95−102.

46. S. Shanthi, B. D. Jayaseelan, P. Velusamy, S. Vijayakumar, C.T. Chih, B. Vaseeharan, 2016. Biosynthesis of silver nanoparticles using a probiotic Bacillus licheniformis Dahb1 and their antibiofilm activity and toxicity effects in Ceriodaphnia cornuta. Microbial Pathogenesis. Vol. 93: 70-77.

47. V. Jeyanthi, P. Anbu, M. Vairamani, P. Velusamy*, 2016. Isolation of hydroquinone (benzene-1,4-diol) metabolite from halotolerant Bacillus methylotrophicus MHC10 and its inhibitory activity towards bacterial pathogens. Bioprocess and Biosystems Engineering. Vol. 39: 429-39.

48. V. Jeyanthi and P. Velusamy*, 2016. Anti-methicillin resistant Staphylococcus aureus compound isolation from halophilic Bacillus amyloliquefaciens MHB1 and determination of its mode of action using electron microscope and flow cytometry analysis. Indian Journal of Microbiology. Vol. 56: 148-157.

49. P. Velusamy*, R. Pachaiappan, M. Christopher, B. Vaseeharan, P. Anbu, and J-S. So, 2016. Isolation and identification of a novel fibrinolytic Bacillus tequilensis CWD-67 from dumping soils enriched with poultry wastes. Journal of General and Applied Microbiology. Vol. 61: 241–247.

50. P. Velusamy*, Su Chia-Hung, A. Shritama, G. Venkat Kumar, V. Jeyanthi, K. Pandian, 2016. Synthesis of oleic acid coated iron oxide nanoparticles and its role in anti-biofilm activity against clinical isolates of bacterial pathogens. Journal of the Taiwan Institute of Chemical Engineers. Vol. 59: 450-456.
51. Suganya N, Bhakkiyalakshmi E, **Sarada DVL**, Ramkumar KM*** (**2016**)**. Reversibility of Endothelial Dysfunction in Diabetes: Role of Polyphenols. British Journal of Nutrition 116:223-246. https://doi.org10.1017/S0007114516001884

52. Rajakalanithi A., Swasthika P., **Sujatha S.** Evaluation of anti-hyperglycemic and anti-hyperlipidemic effects of Naravelia zeylanica in streptozotocin-induced diabetic rats**. International journal of phytomedicine.** 8 (2016) pp.482-490. (IF: 1.76)

53. Trikkurmadom Seetharaman Amritha; VijiChandran S; Rajalekshmy G; **Sujatha S;** Pandima Devi M. In vitro studies on the wound dressing prepared using collagen and teak leaves (Tectonagrandis). **Journal of pharmacy research.** 10 (2016) no. 2, pp.97-105. (SNIP: 0.86)

54. Rajakalanithi A., **Sujatha S.** Hepatoprotective effect of Naravelia zeylanica against streptozotocin-induced oxidative damage in wistar rats. **International journal of pharmaceutical sciences review and research.** 39 (2016) no. 1, pp.318-324. (IF: 0.76)

55. Jamshaid Hussain, Jian Chen, Vittoria Locato, Wilma Sabetta, Smrutisanjita Behera, Sara Cimini, Francesca Griggio, Silvia Martínez-Jaime, Alexander Graf, Mabrouk Bouneb, **Raman Pachaiappan,**Paola Fincato, Emanuela Blanco, Alex Costa, Laura De Gara, Diana Bellin, Maria Concetta de Pinto &Elodie Vandelle (2016) *"*Constitutive cyclic GMP accumulation in *Arabidopsis thaliana* compromises systemic acquired resistance induced by an avirulent pathogen by modulating local signals*"Nature; Scientific Reports 6,* Article number: 36423 (2016) doi: 10.1038/srep36423*(November 2016)* ***IF* 5.525**.(Nature Publishing Group Journal)

56. Venkatasamy, Harithalakshmi; Ayyaswamy, Arivarasan; **Raman, Pachaiappan**; Kulasekaran, Jaidev; Thiyagarajan, Devasena; Samabandam, Bharathi (2016) "Antibacterial and Antioxidant Activities of Green Synthesized Silver Nanoparticles Using Rotala Rotundifolia Plant Extracts " Advanced Science, Engineering and Medicine, Vol. 8(12), December 2016, pp. 947-953. https://doi.org/10.1166/asem.2016.1946

57. Chandrasekaran Prabaharan, Munusamy Thirumavalavanand **Raman Pachaiappan,**(2016) "Production of antioxidant peptides from Ferula asafoetida root protein"*International Journal of Molecular Biology* 2016, 1(1): 00003*(November 2016)* http://medcraveonline.com/IJMBOA/IJMBOA-01-00003.pdf

58. Bharathi Sambandam, Devasena Thiyagarajan, Arivarasan Ayyaswamy**, Pachaiappan Raman** (2016)**"**Extraction and isolation of flavonoid quercetin from the leaves of *Trigonella foenum-graecum* and their anti-oxidant activity**"** *Int J Pharm Pharm Sci,*Vol 8 Issue 6 Pages 120 - 124.http://innovareacademics.in/journals/index.php/ijpps/article/view/10943*(June 2016)* ***IF 0.535***

59. Palaniyandi Velusamy, Govindarajan Venkat Kumar, Venkadapathi Jeyanthi, Jayabrata Das and **Raman Pachaiappan** (2016) "Bio-Inspired Green Nanoparticles: Synthesis, Mechanism, and Antibacterial Application", *Toxicol. Res.* Vol. 32, No. 2, pp. 1-9 http://dx.doi.org/10.5487/TR.2016.32.2.1*(April 2016)* ***IF 0.789***

60. Meenakumari S, Murugan R and **Pachaiappan R** (2016) "Down Regulation of Inflammatory Cytokines by Protocatachuic Acid Isolated from *Blepharis maderaspatensis* (L.) B.Heyne ex Roth Leaves". *Res J Pharm Biol Chem Sci*. Vol. 7, No. 4, pp. 51-62 http://www.rjpbcs.com/pdf/2016_7(4)/[7].pdf (July 2016) ***IF 0.231***

61. Anjugam M, Iswarya A, Indumathi T, Vaseeharan B, **Pachaiappan R,** et al. (2016) Antibiofilm Competency of *Portunus pelagicus* Haemolymph and Identification of its Bioactive Compounds. *J Aquac Res Development* Vol. 7(8): pp 444. doi: 10.4172/2155-9546.1000444

62. S. Hepziba Suganthi and **K. Ramani***. Microbial assisted industrially important multiple enzymes from fish processing waste: Purification, characterization and application for the simultaneous hydrolysis of lipid and protein molecules. *RSC Adv*., 6 (2016) 93602–93620. (IF: 3.049)

63. I.Faridha Begum, R. Mohankumar, M. Jeevan, **K. Ramani*** GC–MS Analysis of Bio-active Molecules Derived from Paracoccus pantotrophus FMR19 and the Antimicrobial Activity Against Bacterial Pathogens and MDROs. *Ind. J. Microbiol*, 56(4) (2016)426–432. (IF: 1.533)

64. J. Lekshmy, S. Iyappan, G. Sekaran, Syeda Ibriza Imtiaz, Pritish Ranjan and **K. Ramani***. A novel mariner-based transposon system for the enhanced removal of high strength ammoniacal nitrogen in pharmaceutical effluents, *RSC Advances*, 6 (2016) 5703. (IF: 3.049)

65. Kumar V. V., Cabana H. (2016) "Towards high potential magnetic biocatalysts for on-demand elimination of pharmaceuticals" *Bioresource Technology*, 200, 81-89. (IF – 7.5) https://doi.org/10.1016/j.biortech.2015.09.100

66. Neeraj G., Santhana R.K., Shriaishvarya K.R., **Kumar V. V.** (2016) "Performance study on sequestration of copper ions from contaminated water using newly synthesized high effective chitosan coated magnetic nanoparticles", *Journal of Molecular Liquids*, 214, 335-346. (IF – 5.065) https://doi.org/10.1016/j.molliq.2015.11.051

67. Gerard N., Krishnan R.S., Ponnusamy S.K., Cabana H., **Kumar V.V.** (2016) "Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites toward the elimination of arsenic from aqueous solution" *Process Safety and Environmental Protection*, 104, 185-195. (IF – 4.966) https://doi.org/10.1016/j.psep.2016.09.006

68. Balcázar-López E, Méndez-Lorenzo L.H., Batista-García R.A., Esquivel-Naranjo U, Ayala M, **Kumar V.V.,** Savary O., Cabana H., Herrera-Estrella A., Folch-Mallol J.L. (2016) Xenobiotic compounds degradation by heterologous expression of a *Trametes sanguineus* laccase in *Trichoderma atroviride*. *PLoS ONE* 11(2): e0147997. (IF – 2.74) https://doi.org/10.1371/journal.pone.0147997
69. Arca-Ramos A., **Kumar V.V,** Eibes G., Moreira MT., Cabana H. (2016) Recyclable cross-linked laccase aggregates coupled to magnetic silica microbeads for elimination of pharmaceuticals from municipal wastewater. *Environmental Science and Pollution Research*, 23(9), 8929-8939. (IF – 3.056) https://doi.org/10.1007/s11356-016-6139-x
70. Suganya, S., Kayalvizhi, K., Kumar P.S., **Kumar V.V.** (2016) Biosorption of Pb(II), Ni(II) and Cr(VI) ions from aqueous solution using *Rhizoclonium tortuosum*: Extended application to nickel plating industrial wastewater, *Desalination and Water Treatment*, 57(52), 25114 – 25139. (IF – 0.854)
71. Kumar M. A., Priyadarshini R., Seenuvasan M., Nilavunesan D., Premkumar M.P., **Kumar V.V.,** Anuradha D., Sivanesan S., (2016) "Biotransformation and detoxification of a greater tinctorial textile colorant using an isolated bacterial strain", *Journal of Environmental Biology*, 37(6), 1497. (IF – 0.781)
72. Meenakumari S, Murugan R and **Pachaiappan R** (2016) "Down Regulation of Inflammatory Cytokines by Protocatachuic Acid Isolated from *Blepharismaderaspatensis*(L.) B.Heyne ex Roth Leaves". *Res J Pharm BiolChem Sci*. Vol. 7, No. 4, pp. 51-62 http://www.rjpbcs.com/pdf/2016_7(4)/[7].pdf (July 2016) ***IF 0.231***

73. Sripriya K, Sandya Ravi, Shivani Sharma, **Radha Panjanathan**[*]. "Preliminary Study on Induction of Phytochelatin in Mentha piperita through Cadmium Stress"- International Journal of ChemTech Research, 9(11), 143-150, **2016. (Scopus indexed).**

74. P.Radha[*]**.** "Enhancing the Stability of Anaerobic Vegetable Waste Digester through Sewage Sludge Supplementaion for Biogas Production – A Comparative Study" **International Journal of ChemTech Research,** 9(7), 666-677, **2016. (Scopus indexed).**

75. Maria Sebatini, Manisha Jain, **P. Radha**, S. Kiruthika, Krishnamurthi Tamilarasan. "Immobilized lipase catalyzing glucose stearate synthesis and their surfactant properties analysis"- **3 Biotech,** 6:184, **2016. (Impact Factor: 1.786).**

76. Manisha Jain, Mariya Sebatini A, **P. Radha**, S. Kiruthika, C. Muthukumaran, K. Tamilarasan. "Synthesis, characterization and kinetic analysis of chitosan coated magnetic nanobiocatalyst and its application on glucose oleate ester synthesis". **Journal of Molecular Catalysis B: Enzymatic** 128, 1–9, **2016. (Cite Score: 2.58).**

77. **T.R. Sivashankari**; K. Sudha, S. Barathi and V. Karthikeyan (2016). Efficacy of plasmid curing agent on *Streptomyces longsporesflavns*, African Journal of Microbiology Research, vol 10 (18) : 616-625.

78. **Anju, T**., Preetha, R., Shunmugam, R., Mane, S. R., Arockiaraj, J., & Kumaresan, V. (2016). Norbornene derived nanocarrier reduces isoniazid mediated liver toxicity: assessment in HepG2 cell line and zebrafish model. *RSC Advances*, *6*(115), 114927–114936. https://doi.org/10.1039/C6RA23557C
79. Antioxidant and Antimicrobial activity of selected medicinal plants against human oral pathogens," **Lavanya J**, Periyar Selvam S, Jeevitha Priya M, Preethi Jacintha, Aradana M (2016) International Journal of Pharmacy and Pharmaceutical Sciences, 8 (9), 71-78. DOI https://doi.org/10.22159/ijpps.2016v8i9.11989
80. Rajeswari. S, Jaiganesh. R, Muthukumar. R, **Jaganathan, M.K**., **2016**. Isolation and Optimization of agarase-producing bacteria from marine sediments. Int J ChemTech Res 9, 437–446.
81. Amala Reddy, Screening, identification and characterization of biosurfactant producing strains from oil contaminated soil- A viable source for degradation of crude oil fraction, ChemTech Research,vol:9,pages:309-320,2016.
82. Amala Reddy, Insights on the anti-inflammatory effect of sequentially extracted fractions of costus pictus: An in vitro study. International Journal of Pharmaceutical Sciences Review and Research vol:40(2) pages:58-64,2016.
83. Amala Reddy, Degradation regime on the interaction of hydrocarbons by a co-culture of Psuedomonas fluorescens (MTCC:8127) and Pseudomonas putida(MTCC:1192), ChemTech Research 6(10), pp. 4556-4563,2016.
84. Ghosh T, Barik S, Bhuniya A, Dhar J, Ghosh S, Sarkar M, Guha I, **Sarkar K**, Chakrabarti P, Saha B, Storkus WJ, Baral R, Bose A. Tumor-associated mesenchymal stem cells inhibit naïve T cell expansion by blocking cysteine export from dendritic cells. *Int J Cancer*, 139, 2068-2081, 2016. Impact factor: 7.36. ISSN: 1097-0215. https://www.ncbi.nlm.nih.gov/pubmed/27405489
85. Devi SG, Fathima AA, Sanitha M, Iyappan S, Curtis WR, Ramya M **(2016)**. Expression and characterization of alkaline protease from the metagenomic library of tannery activated sludge. J Biosci Bioeng, 122(6):694-700.
86. Rathinasabapathi Pasupathi, Natarajan Purushothaman, Madasamy Parani **(2016)**. Genome-wide DNA polymorphisms in Kavuni, a traditional rice cultivar with nutritional and therapeutic properties, Genome, 59 (3), 363-366. IF-1.89
87. Anjali, Vignesh, Keerthana Ragavi, Rathinasabapathi **(2016).** New Strategies toward Edible Vaccines: An Overview, Journal of dietary supplements, 1-16.
88. Kamath Mukund Manali, Rex Arunraj, Thangarathinam Kumar, Mohandass Ramya **(2016)**. Detection of microcystin producing cyanobacteria in the Spirulina dietary supplements using Multiplex HRM Quantitative PCR, Journal of Applied Phycology ,1-6.

89. Kumar Thangarathinam, Mohandass Ramya, Arockiasamy Xavier SJ **(2016).** Stability Indicating Related Substances HPLC method for Droxidopa and Characterization of Related Substances Using LC-MS and NMR, Journal of Chromatographic Science,54(10) 1761-1770. doi: 10.1093/chromsci/bmw136.
90. Selvaraju Gayathri Devi, Anwar Aliya Fathima, Mary Sanitha, Sellamuthu Iyappan, Wayne R Curtis, Mohandass Ramya **(2016).** Expression and characterization of alkaline protease from the metagenomic library of tannery activated sludge, Journal of Bioscience and Bioengineering. 122(6) 694-700. DOI information: 10.1016/j.jbiosc.2016.05.012.
91. Anwar Aliya Fathima, Mary Sanitha, Kumar Thangarathinam, Sellamuthu Iyappan and Mohandass Ramya (2016). Direct utilization of waste water algal biomass for ethanol production by cellulolytic *Clostridium phytofermentans* DSM1183, Bioresource Technology, 202:253-6
92. Sathya B, Mottadi R, Santhosh N, Sohn H, Madhavan T. **(2016)**. "Molecular modeling study on diazine indole acetic acid derivatives for CRTH2 inhibitory activity", Comb Chem High Throughput Screen, vol. 19, pp. 444-460.
93. Sathya B, Santhosh N, Sung L, Madhavan T**. (2016).** "Structural Characterization of human CRTh2: A Combined Homology 61odelling, Molecular docking and 3D-QSAR based In Silico approach", Med Chem Res, vol. 25, pp. 653-671.

2015

1. Sainitya, R., Sriram, M., Kalyanaraman, V., Dhivya, S., Saravanan, S., Vairamani, M., Sastry, T.P., Selvamurugan, N. Scaffolds containing chitosan/carboxymethyl cellulose/mesoporous wollastonite for bone tissue engineering (2015) International Journal of Biological Macromolecules, 80, pp. 481-488.
2. Krishnan, N., Raman, P., Mariappanadar, V. Simple mass spectrometric method for the estimation of boron and aluminum in water at the parts per billion level (2015) European Journal of Mass Spectrometry, 21 (3), pp. 481-486.
3. Saravanan, S., Vimalraj, S., Vairamani, M., Selvamurugan, N. Role of mesoporous wollastonite (calcium silicate) in mesenchymal stem cell proliferation and osteoblast differentiation: A cellular and molecular study (2015) Journal of Biomedical Nanotechnology, 11 (7), pp. 1124-1138.
4. Sekar Sudhakar, and Rasool Abdul Nazeer, 2015. Preparation of potent antioxidant peptide from edible part of shortclub cuttlefish against radical mediated lipid and DNA damage. LWT-Food Science and Technology, 64:593-601. (DOI: 10.1016/j.lwt.2015.06.031).
5. Sekar Sudhakar, and Rasool Abdul Nazeer, 2015. Structural characterization of an Indian squid antioxidant peptide and its protective effect against cellular reactive oxygen species. Journal of Functional Foods, 14:502-512. (DOI: 10.1016/j.jff.2015.02.028).
6. Nirmal C.R., R. Rao, W. Hopper 2015. Inhibition of 3-deoxy-D-*arabino*-heptulosonate 7-phosphate synthase from *Mycobacterium tuberculosis*: *in silico* screening and *in vitro* validation. European Journal of Medicinal Chemistry 105: 182-193. DOI:10.1016/j.ejmech.2015.10.014, (IF: 5.57).
7. Ramtekkar R., W. Hopper, M. M. Gromiha, K. Fukui, D. Velmurugan 2015. Structure Based Discovery of inhibitors for Multidrug Efflux Pump - AcrB. Journal of Bioinformatics and Proteomics Review 1(2):1-9.
8. Suresha R., C.C. Kanakam, K. Dineshkumar, W. Hopper 2015. Synthesis, characterization and study of *in vitro* and *in silico* anticancer activity of (e)-2-arylidene-1-indanones. American Journal of Biomedical Science and Engineering 1(3):32-38.
9. Estrogen-induced neuroprotective and anti-inflammatory effects are dependent on the brain areas of middle-aged female rats Uday Pratap, Anushree Patil, Himanshu R Sharma, Lalgi Hima, Chockalingam Ramanathan, Murali M Harihar, Shushrut Shitoot, Hanna Priyanka, Srinivasan Thyagarajan International Immunopharmacology 2015, 29(2) DOI: 10.1016/j.intimp.2015.09.024
10. Estrogen upregulates inflammatory signals through NF-κB, IFN-γ, and nitric oxide via Akt/mTOR pathway in the lymph node lymphocytes of middle-aged female rats Uday Pratap, Himanshu R Sharma, Aparna Mohanty, Prathamesh Kale, Srinivasan Gopinath,

Lalgi Hima, Hannah Priyanka, Srinivasan Thyagarajan, International Immunopharmalogy, 2015 29(2), DOI: 10.1016/j.intimp.2015.09.024

11. Phytochemicals in Morinda citrifolia fruit selectively modulate age-associated immunity and antioxidant enzyme activities through ERK pathway in splenic lymphocytes of male F344 rats Uday Pratap, Krithika Anand, Fariya Yasmine, Lalgi Hima, Hanna Priyanka, Srinivasan Thayagarajan, Journal of Receptor and Signal Transduction Research, 2015, 36(2)1-13, DOI: 10.3109/10799893.2015.1061001

12. Pharmacological properties and clinical applications of Morinda citrifolia L. Srinivasan Thayagarajan, P.Rethinam, Uday Pratap, International Journal of Noni Research, 2015, 10(1&2)

13. A feedback expression of microRNA-590 and activating transcription factor-3 in human breast cancer cells P. J. Miranda, S. Vimalraj and N. Selvamurugan (2015) International Journal of Biological Macromolecules 72: 145-150; Impact factor: 5.162
14. Biomaterials mediated microRNA delivery for bone tissue engineering M. Sriram, R. Sainitya, V. Kalyanaraman, S. Dhivya and N. Selvamurugan (2015) International Journal of Biological Macromolecules 74: 404-412; Impact factor: 5.162
15. Role of Mesoporous Wollastonite (Calcium Silicate) in Mesenchymal Stem Cell Proliferation and Osteoblast Differentiation: A Cellular and Molecular Study. S. Saravanan, S. Vimalraj, M. Vairamani and N. Selvamurugan (2015) Journal of Biomedical Nanotechnology 11: 1124-1138; Impact factor: 4.483
16. Runx2, a target gene for activating transcription factor-3 in human breast cancer cells M. Gokulnath, N. C. Partridge and N. Selvamurugan (2015) Tumor Biology 36: 1923-1931; Impact factor: 3.320

17. Runx2: Structure, function, and phosphorylation in osteoblast differentiation S. Vimalraj, B. Arumugam, P. J. Miranda, and Selvamurugan, N. (2015) International journal of biological macromolecules, 78, 202-208. Impact factor: 5.162

18. Effect of Size of Bioactive Glass Nanoparticles on Mesenchymal Stem Cell Proliferation for Dental and Orthopedic Applications A. Jindal, S. Saravanan and N. Selvamurugan (2015) Materials Science and Engineering C 53: 142-149; Impact factor: 5.880

19. Regulation of Proliferation and Apoptosis in Human Osteoblastic Cells by microRNA-15b S. Vimalraj and N. Selvamurugan (2015) International journal of biological macromolecules 79: 490-497; Impact factor: 5.162
20. Nanohydroxyapatite-reinforced chitosan composite hydrogel for bone tissue repair in vitro and in vivo S. Dhivya, S. Saravanan, T. P. Sastry and N. Selvamurugan (2015) Journal of Nanobiotechnology 13: 40; Impact factor: 6.518

21. Scaffolds containing chitosan/carboxymethyl cellulose/mesoporous wollastonite for bone tissue engineering
R. Sainitya, M. Sriram, V. Kalyanaraman, S. Dhivya, S. Saravanan, M. Vairamani, T. P. Sastry and N. Selvamurugan (2015) International journal of biological macromolecules 80: 481-488; Impact factor: 5.162

22. Metallic materials for bone tissue engineering S. Dhivya, J. Ajita and N. Selvamurugan (2015) Journal of Biomedical Nanotechnology 11: 1675-1700; Impact factor: 4.483
23. Saranyah K, Sukesh K, Nisha M Sanjeev Kumar S, Saleena LM* Homology modeling and In Silico Site directed mutagenesis of pyruvate ferrodoxin oxidoreductase from *Closteridium thermocellum* Combinatorial Chemistry & High Throughput Screening 2015; 18(10) 975-89
24. Sireesh D, Bhakkiyalakshmi E, Ponjayanthi B, Rajaguru P, Ramkumar KM*. Pathophysiological insights of methylglyoxal induced Type-2 Diabetes. ACS- Chemical Research in Toxicology, 2015; 28(9):1666-74. (I.F.: 3.27; Citation: 24)

25. Bhakkiyalakshmi E, Sireesh D, Rajaguru P, Paulmurugan R, Ramkumar KM*. The emerging role of redox-sensitive Nrf2-Keap1 pathway in diabetes. Pharmacological Research, 2015; 91:104-14. (I.F.: 5.89, Citation: 106)

26. Devjyoti Dalal, Gouri Chaudhuri, Pritam Dey, P. Venu- Babu, W. Richard Thilagaraj, "Application of alkaline phosphatases for the precipitation of heavy metals from single-ionsolutions and industrial effluents using ascorbic acid 2-phosphate as an effective natural substrate". International Journal of Environmental Science and Technology, 12:3877–3886, (2015).
27. Kannan Radhakrishnan, Prabhakar Sivaraman and Wilson Richard Thilagaraj, "Removal of Colour and COD from Actual Effluent by Hybrid Bio sorption and Ultrafiltration". Journal of water reuse and desalination, (2015).
28. Kannan Radhakrishnan, Prabhakar Sivaraman and Wilson Richard Thilagaraj, "Effective and ecofriendly nano-biosorbent for treatment of textile wastewater", Research Journal of Chemistry and Environment, (2015).
29. Deepika Jothinathan., Richard Thilagaraj Wilson, The Optimization of Parameters for the Increased Electricity Production by the Microbial Fuel Cell using Rumen Fluid. International Journal of Green Energy, 12: 333-338, (2015).
30. Disruption of Cell Through High Pressure Homogenizer Nithyanandam Saranya N, Pandimadevi M, Journal of Bionanoscience, 2015, 9(4), 315-317

31. Potential wound healing materials from the natural polymers -A review Pandimadevi M Viji Chnadran, Amritha, Rajalaksmy International Journal of Pharma and Bioscience, 2015, 6(3), 1365-1389

32. A preliminary in vitro study on the bovine collagen film incorporated with Azadirachta indica plant extract as a potential wound dressing material Pandimadevi M Viji

Chandran, Amritha TS, Rajelakshmy G, International Journal of Pharmtech Research, 2015, 8(6), 248-257

33. Collagen – Azadirachta indica (Neem) Leaves Extract Hybrid Film as a Novel Wound Dressing: In vitro Studies Pandimadevi M Viji Chnadran, Amritha, Rajalaksmy International Journal of Pharmaceutical Sciences Review and Research, 2015, 33(2)193-199

34. P. Velusamy*, **J. Das**, R. Pachaiappan, B. Vaseeharan, K. Pandian. Autoclave assisted biosynthesis of antibacterial silver nanoparticles aqueous neem gum extract. Industrial Crops and Products. 66 (**2015**) 103–109. **IF– 3.2** http://www.sciencedirect.com/science/article/pii/S0926669014008073
35. P. Velusamy*, J. Das, R. Pachaiappan, B. Vaseeharan, K. Pandian, 2015. Greener approach for synthesis of antibacterial silver nanoparticlesusing aqueous solution of neem gum (Azadirachta indica L.). Industrial Crops and Products. Vol. 66: 103–109.
36. S. Sangeetha and **Sarada, DVL** (2015) Phenyl Derivative of Pyranocoumarin Precludes *Fusarium oxysporum* f. sp. *lycopersici* Infection in *Lycopersicon esculentum* via Induction of Enzymes of the Phenylpropanoid Pathway. Applied Biochemistry and Biotechnology **175**: 1168-1181. https://doi.org/10.1007/s12010-014-1285-4
37. Viji Chandran S., Amritha T.S., Rajalekshmi G.**, Sujatha S.,** Pandimadevi M. Collagen - Azadirachta indica (neem) leaves extract hybrid film as a novel wound dressing: In vitro studies**, International journal of pharmaceutical sciences review and research.** 32 (2015) no. 2, pp.193-199. (IF: 0.26)

38. Palaniyandi Velusamy, **Raman Pachaiappan**, Meera Christopher, Baskaralingam Vaseeharan, Periasamy Anbu, and Jae-Seong So (2015) "Isolation and identification of a novel fibrinolytic *Bacillus tequilensis* CWD-67 from dumping soils enriched with poultry wastes ",*J. Gen. Appl. Microbiol., Vol. 61, p241–247.* http://dx.doi.org/10.2323/jgam.61.241. *(August 2015)* ***IF 0.535***
39. Chellan Kumarasamy, Gurpreet Singh, **Pachaiappan Raman**, Kanchana Mala (2015) "Effect of protein arginine methyltransferase-1 inhibition on hypoxia-inducedvasoconstriction", *Medical Hypothesis Vol*. 85 Pages 740–743.http://dx.doi.org/10.1016/j.mehy.2015.10.018. *(December 2015)* ***IF 1.136***
40. Bharathi Sambandam, Durga Mohan, Pazhanivel Kaliyaperumal, **Pachaiappan Raman**, Devasena Thiyagarajan (2015) "Acute dermal toxicity of coal fly ash nanoparticles *in vivo"Int J Pharm Pharm Sci,*Vol 7 Issue 7 Pages 403 -407. http://innovareacademics.in/journals/index.php/ijpps/article/view/6447*(July 2015)* ***IF 0.535***

41. Nagasathiya Krishnan, **Pachaiappan Raman** and Vairamani Mariappanadar (2015) "Simple mass spectrometric method for the estimation of boron and aluminum in water at

the parts per billion level" *Eur. J. Mass Spectrom.* **21,** 481–486. https://www.impublications.com/content/ejms-20th-anniversary. *(June 2015)* ***IF 1.16***

42. Palaniyandi Velusamy, Jayabrata Das, **Raman Pachaiappan,** Baskaralingam Vaseeharan, and Kannaiyan Pandian. (2015) "Greener approach for synthesis of antibacterial silver nanoparticles using aqueous solution of neem gum (Azadirachta indica L.)" *Ind. Crops and Products*Vol. 66 Pages 103–109. http://www.sciencedirect.com/science/article/pii/S0926669014008073*(April 2015)* ***IF 3.449***
43. Gurpreet Singh, Ekant Tamboli, Aurovind Acharya, Chellan Kumarasamy, Kanchana Karuppiah, **Pachaiappan Raman.** (2015) "Bioactive proteins from Solanaceae as quorum sensing inhibitors against virulence in *Pseudomonas aeruginosa"Medical Hypothesis* Vol. 84(6) Pages 539–42. http://www.sciencedirect.com/science/article/pii/S0306987715000961.*(March. 2015)* ***IF 1.136***
44. **K.Ramani**, G.Sekaran. Anaerobic biodegradation of slaughterhouse lipid waste and recovery of biomolecules for the industrial applications. Title of the book- "*Advances in Biodegradation and Bioremediation of Industrial Waste*", ISBN 9781498700542-CAT# K24526, *Taylor and Francis publications* (2015) pp.281-322.
45. Anil Kumar M., **Kumar V. V.,** Ponnusamy R., Paul Daniel F., Seenuvasan M., Anuradha D., Sivanesan S. (2015) "Concomitant mineralization and detoxification of Acid Red 88 by an indigenous acclimated mixed culture", *Environmental Progress and Sustainable Energy*, 34(5), 1455-66. (IF – 1.989) https://doi.org/10.1002/ep.12151
46. Shanmughaprakash M., **Kumar V. V.**, (2015) "Biochemical characterization of three phase partitioned naringinase from *Aspergillus brasiliensis*", *International Journal of Biological Macromolecules***,** 80, 418-23. (IF – 5.1) https://doi.org/10.1016/j.ijbiomac.2015.06.057
47. Paripoorani K.S., Ashwin G., Vengatapriya P., Ranjitha V., Rupasree S., Kumar V. V., **Kumar V. V.** (2015) "Insolubilization of inulinase on magnetic chitosan micro particles, an easily recoverable and reusable support" *Journal of Molecular Catalysis B Enzymatic*, 113, 47-55. https://doi.org/10.1016/j.molcatb.2015.01.004
48. Shanmugaprakash M., Jayashree C., **Kumar V. V.,** Vanitha S., Sahabjada, Rawat V., Arshad M. (2015) "Biochemical characterization and antitumor activity of three phase partitioned L-asparaginase from *Capsicum annuum* L." *Separation and Purification Technology*, 142, 258-267. (IF – 5.774) https://doi.org/10.1016/j.seppur.2014.12.036
49. Sekar praveen kumar, Kannan Birundha , Kannan Kaveri, K.T. Ramya Devi∗ (2015). Antioxidant studies of chitosan nanoparticles containing naringenin and their cytotoxicity effects in lung cancer. International journal of biological macromolecules, 70c, 87-95, Zoi:10.1016/j.ijbiomac.2015.03.045. Impact factor: 5.162

50. **G.Dhanavathy,** Immunohistochemistry, histopathology and biomarker studies of swertiamarin, a secoiridoid glycoside, prevents and protects streptozotocin-induced β-cell damage in *Wistar* rat pancreas. Journal of Endocrinological Investigation, 38(6), 669 – 684, 2015.

51. Amala Reddy, Biochemical characterization of three phase partitioned naringinase from Aspergillus brasiliensis MTCC 1344, International journal of biological macromolecules, VOL:80,18–423,2015.
52. Anwar Aliya Fathima, Mary Sanitha, Kumar Thangarathinam, **Sellamuthu Iyappan** and Mohandass Ramya **(2015)**. Direct utilization of waste water algal biomass for ethanol production by cellulolytic Clostridium phytofermentans DSM1183, Bioresource Technology, 202
53. Ramani K, Lekshmy J, Iyappan S Sekaran Ganesan, Syeda Ibriza Imtiaz and Pritish Ranjan **(2015).** A novel mariner-based transposon system for the enhanced removal of high strength ammoniacal nitrogen in pharmaceutical effluent. RSC Advances 7 (2015)
54. Rex Arunraj, Moorthy Abiramavalli, Pasupathy Rathinasabapathi **(2015)** DNA barcoding identifies the component species in the powder formulations of plant derived raw drugs sold in retail market in India. Research Journal of Biotechnology 11(3), 100-107.
55. Rathinasabapathi. P, Deepak S Hiremath, Rex Arunraj and Parani. M. **(2015)** Molecular detection of New Delhi Metallo-beta-Lactamase-1 (NDM-1) positive bacteria from environmental and drinking water samples by Loop mediated Isothermal Amplification of bla_{NDM-1}. Indian Journal of Microbiology. 55(4):400–405. DOI 10.1007/s12088-015-0540-x.
56. Rathinasabapathi Pasupathi, Natarajan Purushothaman , Ramprasad VL, Madasamy Parani **(2015)** Whole genome sequencing and analysis of Swarna, a widely cultivated indica rice variety with low glycemic index. Scientific reports. 5, 11303; doi: 10.1038/srep11303

57. Trevor R Zuroff, Andrew C Tolonen, Mohandass Ramya, Wayne R Curtis **(2015).** Physiology, genomics, and pathway engineering of an ethanol tolerant strain of *Clostridium phytofermentans*. Applied and Environmental Microbiology, Aug 15; 81(16):5440-8.
58. S Gayathri Devi and M Ramya **(2015)**. PCR- RFLP based Bacterial Diversity Analysis of a Municipal Sewage Treatment Plant. Journal of Environmental Biology, Vol. 36, 1113-1118.
59. Gayathri Devi S, Aliya Fathima A, Radha S, Rex Arunraj, Wayne R. Curtis, Ramya M **(2015).** A rapid and economical method for efficient DNA extraction from diverse soils suitable for metagenomic applications, Plos One, DOI: 10.1371/journal.pone.0132441
60. Natarajan, A., Sugumar, S., Bitragunta, S., & Balasubramanyan, N. **(2015).** Molecular docking studies of (4 Z, 12 Z)-cyclopentadeca-4, 12-dienone from Grewia hirsuta with

some targets related to type 2 diabetes. *BMC complementary and alternative medicine*, *15*(1), 1-8.

61. Arthi, P., Shobana, S., Srinivasan, P., Prabhu, D., Arulvasu, C., & Rahiman, A. K. **(2015).** Dinuclear manganese (II) complexes of hexaazamacrocycles bearing N-benzoylated pendant separated by aromatic spacers: Antibacterial, DNA interaction, cytotoxic and molecular docking studies. *Journal of Photochemistry and Photobiology B: Biology*, *153*, 247-260.
62. Arthi, P., Shobana, S., Srinivasan, P., Mitu, L., & Rahiman, A. K. **(2015)**. Synthesis, characterization, biological evaluation and docking studies of macrocyclic binuclear manganese (II) complexes containing 3, 5-dinitrobenzoyl pendant arms. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, *143*, 49-58.
63. Sperber H, Mathieu J, Wang Y, Ferreccio A, Hesson J, Xu Z, Fischer KA, **Devi A**, Detraux D, Gu H, Battle SL, Showalter M, Valensisi C, Bielas JH, Ericson NG, Margaretha L, Robitaille AM, Margineantu D, Fiehn O, Hockenbery D, Blau CA, Raftery D, Margolin AA, Hawkins RD, Moon RT, Ware CB, Ruohola-Baker H. **(2015)**. The metabolome regulates the epigenetic landscape during naive-to-primed human embryonic stem cell transition**.** ***Nat Cell Biol.*** 17(12):1523-35. doi: 10.1038/ncb3264. Epub 2015 Nov 16. PMID: 26571212; PMCID: PMC4662931.
64. Harishankar MK, Logeshwaran S, Sujeevan S, Aruljothi KN, Dannie MA, Devi A. **(2015)**. Genotoxicity evaluation of metformin and glimepiride by micronucleus assay in exfoliated urothelial cells of type 2 diabetes mellitus patients. ***Food Chem Toxicol.*** 83:146-50. doi: 10.1016/j.fct.2015.06.013.
65. SK Sharma, PV Kumar, AS Geetanjali, KB Pun, VK Baranwal **(2015)** Subpopulation level variation of banana streak viruses in India and common evolution of banana and sugarcane badnaviruses *Virus genes*, 50(3)**:**450-465

66. P Rathinasabapathi, Deepak S Hiremath, Rex Arunraj, M Parani (2015). Molecular Detection of New Delhi Metallo-Beta-Lactamase-1 (NDM-1) Positive Bacteria from Environmental and Drinking Water Samples by Loop Mediated Isothermal Amplification of *bla* $_{NDM-1.}$ Indian Journal of Microbiology, 55, 400-405

67. Mohandass Ramya Selvaraju Gayathri Devi, Anwar Aliya Fathima, Sudhakar Radha, Rex Arunraj, Wayne R. Curtis (2015). A Rapid and Economical Method for Efficient DNA Extraction from Diverse Soils Suitable for Metagenomic Applications. PlosOne.

68. Sureshan CS, Habeeb SKM. Identification and conformational analysis of putative microRNAs in Maruca vitrata (Lepidoptera: pyralidae). Appl Transl genomics. 2015;7:2–12.
69. Habeeb SKM, Sanjayan KP. Molecular Docking and Enzymatic Analysis of Annonin-I, Against the Dusky Cotton Bug Oxycarenus laetus Kirby. Curr Bioinform. 2015;10(1):91–6.

70. Sakthivel S, Habeeb SKM. NNvPDB: Neural Network based Protein Secondary Structure Prediction with PDB Validation. Bioinformation. 2015;11(8):416–21

2014

1. Nagasathiya, K., Brinda, C., Parani, M., Vairamani, M. Artifacts from methanol stored in borosilicate glass bottles during electrospray ionization mass spectrometric analysis (2014) Rapid Communications in Mass Spectrometry, 28 (20), pp. 2227-2230.
2. Moorthi, A., Parihar, P.R., Saravanan, S., Vairamani, M., Selvamurugan, N. Effects of silica and calcium levels in nanobioglass ceramic particles on osteoblast proliferation (2014) Materials Science and Engineering C, 43, pp. 458-464.
3. Karthikraj, R., Chitumalla, R.K., Bhanuprakash, K., Prabhakar, S., Vairamani, M. Enantiomeric differentiation of β-amino alcohols under electrospray ionization mass spectrometric conditions (2014) Journal of Mass Spectrometry, 49 (1), pp. 108-116.
4. Karthikraj, R., Sridhar, L., Murty, M.R.V.S., Raju, N.P., Vairamani, M., Prabhakar, S. P-Tolyl isocyanate derivatization for analysis of CWC-related polar degradation products by mass spectrometry (2014) Analytical and Bioanalytical Chemistry, 406 (21), pp. 5093-5102.
5. Nazeer, R.A., M.A.V. Saranya and Shabeena Yousuf Naqash, 2014. Radical scavenging and amino acid profiling of wedge clam, Donax cuneatus (Linnaeus) protein hydrolysates. Journal of Food Science and Technology, 51(12):3942-3948. (DOI: 10.1007/s13197-012-0894-6).
6. Venkatesan, K. and R.A. Nazeer, 2014. Antioxidant activity of purified protein hydrolysates from northern whiting fish (Sillago sihama) muscle. International Journal of Peptide Research and Therapeutics, 20:209-219. (DOI: 10.1007/s10989-013-9384-6).
7. Nazeer, R.A., and U. Sri Suganya, 2014. Porous scaffolds of gelatin from the marine gastropod Ficus variegata with commercial cross linkers for biomedical applications. Food Science and Biotechnology. 23(2):327-335. (DOI: 10.1007/s10068-014-0046-z).
8. Nazeer, R.A., R. Kavitha, R. Jai ganesh, Shabeena Yousuf Naqash, N. Satya Sampath Kumar and R. Ranjith, 2014. Detection of Collagen through FTIR and HPLC from the body and foot of Donax cuneatus Linnaeus, 1758. Journal of Food Science and Technology, 51(4):750-755. (DOI: 10.1007/s13197-011-0539-1).
9. Aparna V., K. Dineshkumar, N. Mohanalakshmi, D. Velmurugan, W. Hopper 2014. Identification of Natural Compound Inhibitors for Multidrug efflux pumps of *Escherichia coli* and *Pseudomonas aeruginosa* using *in silico* High-Throughput Virtual Screening and *in vitro* validation. PLoS ONE 9(7): e101840. DOI:10.1371/journal.pone.0101840, (IF: 3.73).
10. Tamilvanan T., W. Hopper 2014. Biologically active ligands for *Yersinia* outer protein H: Feature based pharmacophore screening, docking and molecular dynamics studies. Combinatorial Chemistry & High Throughput Screening 17(7): 579-595. DOI:10.2174/1386207317666140211095137, (IF: 2.00).
11. Dineshkumar, K., V. Aparna, K.Z. Madhuri, W. Hopper 2014. Biological activity of Sporolide A and B from *Salinispora tropica*: *in silico* target prediction using ligand based

Pharmacophore mapping and *in vitro* activity validation on HIV-1 reverse transcriptase. Chemical Biology & Drug Design 83(3): 350-361. DOI:10.1111/cbdd.12252, (IF: 2.802).

12. Petchiammal C., W. Hopper 2014. Antioxidant activity of proteins from fifteen varieties of legume seeds commonly consumed in India. International Journal of Pharmacy and Pharmaceutical Sciences 6(S2):476-479..
13. Aparna, V., N. Mohanalakshmi, K. Dineshkumar, W. Hopper 2014. Identification of inhibitors for RND efflux pump of *Pseudomonas aeruginosa* using structure-based pharmacophore modeling approach. International Journal of Pharmacy and Pharmaceutical Sciences 6(1):84-89..
14. Gayathri G., K. Vijayalakshmi, A. Saraswathy, W. Hopper, T. Tamilvanan 2014. Anti-inflammatory activities of phytochemicals from *Bauhinia variegata* Linn. leaf: An *in silico* approach. Journal of Chemical and Pharmaceutical Research 6(9):334-348
15. Vadivu G., Hopper S. W., Srimathi H. 2014. Jena with SPARQL to Find Indian Natural Plants Used as Medicine for Diseases. Proceedings of International Conference on Internet Computing and Information Communications, Advances in Intelligent Systems and Computing. Sathiakumar S., Awasthi L.K., Masillamani R., Sridhar S.S. (Eds.), Vol. 216, pp. 225-237, Springer, India
16. Sheema J.B., S. Siva Ranjini, W. Hopper 2014. Energy based pharmacophore modelling and virtual screening for identification of potential inhibitors for GSK3β. Journal of Clinical Science Research 3(S1):s24.
17. Vijayasri S., S. Sanyal, W. Hopper 2014. Identification and docking studies of phyto constituents as competitive antagonists against metabotropic glutamate receptor 5, towards a better drug lead for epilepsy. Journal of Clinical Science Research 3(S1):s23.
18. Vijayasri S., W. Hopper 2014. Virual screening and shape based docking studies of phytochemicals as metabotropic glutamate receptor ligands towards the development of antiepileptic drug. Journal of Chemical and Pharmaceutical Sciences 2:4.
19. Sanjana K. B., E. Preethi, S. Vijayasri, W. Hopper 2014. Computational analysis of Emmenagogues with a human nuclear receptor for its futuristic application in polycystic ovarian syndrome treatment. Journal of Chemical and Pharmaceutical Sciences 2:5.
20. Estrogen modulates β2-adrenoceptor-induced cell-mediated and inflammatory immune responses through ER-α involving distinct intracellular signaling pathways, antioxidant enzymes, and nitric oxide, Hanna Priyanka, Ran Vijay Singh, Uday Pratap, Srinivasan Thyagarajan, Cellular Immunology, 2014, 292(1-2) DOI: 10.1016/j.cellimm.2014.08.001
21. Lowering splenic sympathetic activity by chronic rilmenidine treatment fails to restore sympathetic neurotransmission in spleens from aging brown norway rats, Dianne Lorton, Sam D Perez, C Molinaro, Srinivasan Thyagarajan, Mark Ghamsary, C.L.Lubhan, D.L.Bellinger, Brain Behavior and Immunity 2014, DOI:10.1016/j.bbi.2014.06.169

22. A positive role of microRNA-15b on regulation of osteoblast differentiation S. Vimalraj, N. C. Partridge and N. Selvamurugan (2014) Journal of Cellular Physiology 229: 1236-1244; Impact factor: 5.546
23. Synthesis and characterization of diopside particles and their suitability along with chitosan matrix for bone tissue engineering *in Vitro* and *in Vivo* J. P. Kumar, L. Lakshmi, V. Jyothsna, D. R. P. Balaji, S. Saravanan, A. Moorthi and N. Selvamurugan (2014) Journal of Biomedical Nanotechnology 10: 970-981; Impact factor: 4.483
24. MicroRNAs expression and their regulatory networks during mesenchymal stem cells differentiation toward osteoblasts. S. Vimalraj and N. Selvamurugan (2014) International Journal of Biological Macromolecules 66: 194-202; Impact factor: 5.162
25. Effects of silica and calcium levels in nanobioglass ceramic particles on osteoblast proliferation A. Moorthi, P. R. Parihar, S. Saravanan, M. Vairamani and N. Selvamurugan (2014) Materials Science and Engineering C 43: 458-464; Impact factor: 5.880
26. A systems biological approach reveals multiple crosstalk mechanism between gram-positive and negative bacterial infections: an insight into core mechanism and unique molecular signatures (2014). Muthukumar R, Alexandar V, Berla Thangam E, Ahmed SS. PLoS One, 28; 9(2):e89993. (IF: 2.740)
27. TLR-mediated inflammatory response to neonatal pathogens and co-infection in neonatal immune cells (2014). Sugitharini V, Pavani K, Prema A, Berla Thangam E, Cytokine ,69(2):211-7. (IF: 3.488)
28. Functional characterization of histamine H4 receptor on human mast cells (2014). Jemima EA, Prema A, E. Berla Thangam. Mol Immunol, Jun 13 62(1):19-28. (IF: 3.641)
29. Sukesh K, Vinod D, Saleena LM*. Combined structure and ligand based pharmacophore modeling and MD studies to identify the selective inhibitors against MMP-8, Journal of Molecular modeling,2014, 20(5):2191
30. Suganya PR Sukesh Saleena LM. Molecular docking and dynamics Simulation study on the Influence of Zn 2+ Combinatorial Chemistry & High Throughput Screening 2014, 17,891-903

31. Sukesh K, Azhagiyasingam, Saleena LM*. Subramanian V. Discovery of Potent Inhibitor for Matrix Metalloproteinase-9 by Pharmacophore Based Modeling and Dynamics Simulation Studies 2014 ,49:25-37 Journal of Molecular Graphics and Modeling.

32. Priya S, Sukesh K, Saleena LM*. E-Pharmacophore and Molecular Dynamics Study of Flavonols and Dihydroflavonols as Inhibitors Against Dihydro orotate dehydrogenase Combinatorial Chemistry & High Throughput Screening, 2014 ,17(8):663-673 (IF 1.2)
33. Sireesh D, Bhakkiyalakshmi E, Ramkumar KM, Kumar SR, Jennifer PA, Rajaguru P, Paulmurugan R*. Targeting SUMOylation Cascade for Diabetes Management. Current Drug Targets, 2014; 15(12):1094-106 (I.F.: 2.63; Citation: 15)

34. Uma C, Suganya N, Vanitha P, Bhakkiyalakshmi E, Suriyanarayanan S, Maria John KM, Sivasubramanian S, Gunasekaran P, Ramkumar KM*. Antihyperglycemic effect of *Codariocalyx motorius* modulated carbohydrate metabolic enzyme activities in streptozotocin-induced diabetic rats. Journal of functional foods, 2014; 11: 517-527 (I.F.: 3.70; Citation: 7)

35. Suganya N, Bhakkiyalakshmi E, Subin TS, Krishnamurthi K, Devi S, Lau K, Sekar TV, Paulmurugan R, Ramkumar KM*. Proteomic identification of pterostilbene mediated anticancer activities in HepG2 cells. ACS- Chemical Research in Toxicology, 2014; 27(7):1243-52 (I.F.: 3.27; Citation: 11)

36. Bhakkiyalakshmi E, Shalini D, Thillai VS, Rajaguru P, Paulmurugan R, Ramkumar KM*. Therapeutic potential of pterostilbene against pancreatic β-cell apoptosis through Nrf2 mechanism. British Journal of Pharmacology, 2014; 171(7): 1747-1757. (I.F.: 7.73; Citation: 89)

37. Vanitha P, Uma C, Suganya N, Bhakkiyalakshmi E, Suriyanarayanan S, Gunasekaran P, Sivasubramanian S, Ramkumar KM*. Modulatory effects of morin on hyperglycemia by attenuating the hepatic key enzymes of carbohydrate metabolism and β-cell function in streptozotocin-induced diabetic rats. Environmental Toxicology and Pharmacology, 2014; 37(1):326-335. (I.F.: 3.29; Citation: 89)

38. Suganya N, Bhakkiyalakshmi E, Suriyanarayanan S, Paulmurugan R, Ramkumar KM*. Quercetin ameliorates tunicamycin-induced endoplasmic reticulum stress in endothelial cells. Cell proliferation 2014; 47(3): 231-240. (I.F.: 5.73; Citation: 49)

39. Ramkumar KM*, Vijayakumar RS, Vanitha P, Suganya N, Manjula C, Rajaguru P, Sivasubramanian S, Gunasekaran P. Protective effect of Gallic acid on alloxan-induced oxidative stress and osmotic fragility in rats. Human and Experimental Toxicology, 2014; 33(6): 638-649. (I.F.: 2.06; Citation: 36)

40. Kanthadeivi Arunachalam, Sathesh Kumar Annamalai, Aarrthy M. Arunachalam, Raghavendra R., Subhashini S., 2014, "One step green synthesis of phytochemicals mediated gold nanoparticles from *Aegle marmelos* for the prevention of urinary catheter infection," International Journal of Pharmacy and Pharmaceutical Sciences, Vol. 6, Issue 1, pp.700-706, Impact Factor: 1.59

41. Rupachandra.S, Aishwarya.S, Daniel.A ,Gunalan.E, "*In vitro* study on Nano Polymer encapsulated Protein isolated from *Emblica officinalis*", International Journal of ChemTech Research (Scopus indexed,SNIP- 0.598), ISSN: 0974-4290, 7:2, 825-831,2014.
42. Rupachandra, S. and Sarada, D.V.L., " Induction of Apoptotic Effects of antiproliferative protein from the seeds of *Borreria hispida* on Lung Cancer (A549) and Cervical Cancer

(HeLa) Cell Lines", Biomed Research International, Article ID 179836, doi.org/10.1155/ 2014/179836.1-8, 2014, (Scopus indexed, IF-2.583)

43. Rupachandra, S. and Sarada, D.V.L., " Antiproliferative and apoptotic properties of a small peptide from the seeds of *Polyalthia longifolia* on human cancer cell lines", Indian Journal of Biochemistry and Biophysics, 51: 127-134,2014, (Scopus indexed, IF-1.077)
44. Sasikala.R and Barathi.S,(2014) Biodegradation of Acephate and Methamidophos by a soil bacterium *Pseudomonas aeruginosa* strain Is-6, J.Environ. Sci. Health, Part-B, 49(1):23-34.
45. Venkatesan K, Nazeer R A, "Antioxidant activity of purified protein hydrolysates from northern whiting fish (*Sillago sihama*) muscle," International Journal of peptide research and therapeutics, 20:209-219, 2014.
46. Muthukumar R, Chidambaram R, Ramesh V. Biosynthesis of silver nanoparticles from E. tirucalli and to check its antimicrobial activity. Research Journal of Pharmaceutical, Biological and Chemical Sciences. 2014;5(2):589
47. Muthukumar. R., Alexandar. V., Berla Thangam, SSSJA A Systems Biological Approach Reveals Multiple Crosstalk Mechanism between Gram-Positive and Negative Bacterial Infections: An Insight into Core Mechanism and Unique Molecular signatures ,PLOS ONE 9 (2), e89993. 2014
48. Nazeer, R.A., R. Kavitha, R. Jai ganesh, Shabeena Yousuf Naqash, N. Satya Sampath Kumar and R. Ranjith, 2014. Detection of Collagen through FTIR and HPLC from the body and foot of *Donax cuneatus* Linnaeus, 1758. Journal of Food Science and Technology, 51(4): 750–755.
49. Priya Mohan, Richard Thilagaraj, "Anti-Biofouling studies of surface modified titanium Coated with silver nanoparticles- for Condenser application", "Research Journal of Chemistry and Environment" (2014).
50. Cell disruption by ultrasonication Nithyanandham S Saranya N, Pandimadevi M BioNanoscience, 2014, 4(3)
51. Optimization of phenol degradation using Pseudomonas aeruginosa (MTCC 7814) by Plackett-Burman design and response surface methodology, M Pandimadevi, M Venkatesh Prabhu, V Vinod Kumar Journal of Bioremediation and Biodegradation (2014), 5(7).
52. **J. Das**, P. Velusamy*. Catalytic reduction of methylene blue using biogenic gold nanoparticles from *Sesbania grandiflora* L. Journal of Taiwan Institute of Chemical Engineering. 45 (2014) 2280–2285. **IF – 4.7**
http://www.sciencedirect.com/science/article/pii/S1876107014001102
53. P. Velusamy*, **J. Das**. Identification and characterization of antifungal chitinase from *Bacillus subtilis* JD-09 strain and their role for inhibiting of viable fungal hyphae growth.

International Journal of Pharmacy and Pharmaceutical Sciences. 6 (2014) 232–235. **SNIP – 0.8** http://innovareacademics.in/journals/index.php/ijpps/article/view/1737

54. P. Velusamy* and J. Das, 2014. Identification and characterization of antifungal chitinase from Bacillus subtilis JD-09 and their role in inhibition of viable fungal growth. International Journal of Pharmacy and Pharmaceutical Sciences Vol. 6: 232–235.
55. J. Das, P. Velusamy*, 2014. Catalytic reduction of methylene blue using biogenic gold nanoparticles from Sesbania grandiflora L. Journal of the Taiwan Institute of Chemical Engineers. Vol. 45: 2280–2285.
56. S. Rupachandra and **Sarada, DVL** (2014) Induction of Apoptotic Effects of antiproliferative Protein from the Seeds of *Borreria hispida*on Lung Cancer (A549) and Cervical Cancer (HeLa) Cell Lines Biomed Research International Article ID 179836, 8 pages. http://dx.doi.org/10.1155/2014/179836.
57. S. Rupachandra and **Sarada, DVL** (2014) Antiproliferative and apoptotic properties of a small peptide from the seeds of *Polyalthia longifolia* on human cancer cell lines Indian Journal of Biochemistry and Biophysics **51**: 127-134.
58. Bharathi, S., Ibrahim, V.H.I., **Pachaiappan. R,** Manish B., Abinaya B., and Devasena T (2014) "Coal fly ash nanoparticles induced cytotoxicity and oxidative DNA damage and apoptosis in Chang - liver cells" *Afr. J. Pharm. Pharmacol.* Vol. 8(32) Pages 801 – 806. http://www.academicjournals.org/journal/AJPP/edition/29_August,_2014
59. Ramamoorthi G, **Sivalingam N**. Molecular mechanism of TGF-β signaling pathway in colon carcinogenesis and status of curcumin as chemopreventive strategy. Tumour Biol. 2014 Aug;35(8):7295-305. **Impact factor : 2.926**
60. **K.Ramani**, P.Saranya, G.Sekaran. Biocatalytic approach on the treatment of edible oil refinery wastewater. *RSC Advances*, 4 (2014) 10680–10692. (IF: 3.049)
61. **Kumar V. V.,** Sivanesan S., Cabana H. (2014) "Magnetic cross-linked laccase aggregates -Bioremediation tool for decolorization of distinct classes of recalcitrant dyes", *Science of the Total Environment*, 487, 830-39. (IF – 6.551) https://doi.org/10.1016/j.scitotenv.2014.04.009
62. Rupasree S, Paripoorani K.S., Sneha S, Snigidha B, Prabhu M.V., **Kumar V.V.,** (2014) Integration of affinity precipitation with three phase partitioning methods for bioseparation of laccase from *Trametes versicolor*, *International Journal of Chem Tech Research*, 6 (10), 4550-4555.
63. Bitan B, Ramanathan R, Sivasubramanian V, Priya I.D., Jayarajan J, **Kumar V.V.,** (2014) Analysis of aromatic hydrocarbon degrading capacity by thermophilic bacteria isolated from oil contaminated soil. *International Journal of Chem Tech Research*, 6 (10), 4556-4563.
64. Pandimadevi M, Prabhu M.V., **Kumar V.V.,** (2014) Optimization of phenol degradation using *Pseudomonas aeruginosa* (MTCC 7814) by Plackett-Burman design and response surface methodology. *Journal of Bioremediation and Biodegradation*, 5 (7)

65. **Ravichandran Yesuvadian,** Janarthanan Krishnamoorthy, Ayyalusamy Ramamoorthy, Anirban Bhunia. Potent γ-secretase inhibitors/modulators interact with amyloid-β fibrils but do not inhibit fibrillation: A high resolution NMR study. Biochemical and Biophysical Research Communications. 447 (2014) 590-595.

66. Kannan Radhakrishnan, Lakhsmi Sethuraman, **Radha Panjanathan**, Aparna Natarajan, Vishali Solaiappan, Wilson Richard Thilagaraj. "Biosorption of heavy metals from actual electroplating wastewater using encapsulated Moringa Oleifera beads in fixed bed column" – **Desalination and Water Treatment –** 1-16, **2014. (Impact Factor: 0.854).**

67. Bhavya Shukla, **Radha Panjanathan*,** Archana Yadav. Analysis of bio hydrogen production propensity of mixed consortium on food waste – A preliminary study. **International Journal of Environmental Sciences** Volume 5, No.1, **2014.**

68. Thangam, A., & Ramlakshmi, S. (2014). Effect of Zno Nano Particles Against Strains of *Escherichia Coli*. *Asian Journal of Pharmaceutical and Clinical Research*, *7*(5), 202–206.

69. E-pharmacophore and molecular dynamics study of flavonols and dihydroflavonols as inhibitors against DiHydroOrotate DeHydrogenase **Swaminathan, P**.,Kalva, S.,Saleena, L.M (2014)., Combinatorial Chemistry and High Throughput Screening,17(8),663-673 (**IF:1.19**)

70. Srikanth, S., Swathi, M., Tejaswini, M., Sharmila, G., Muthukumaran, C., **Jaganathan, M.K**., Tamilarasan, K., **2014**. Statistical Optimization of molasses based exopolysaccharide and biomass production by Aureobasidium pullulans MTCC 2195. Biocatal Agric Biotechnol 3, 7–12.

71. Amala Reddy, Analysis of aromatic hydrocarbon degrading capacity by thermophilic bacteria isolated from oil contaminated soil, International Journal of ChemTech Research,Vol.6,Pages:4556-4563,2014 .

72. Sanitha M, Radha S, Fatima AA, Devi SG, Ramya M **(2014)** Agrobacterium-mediated transformation of three freshwater microalgal strains. Pol.J. Microbiol. 2014;63(4):387-92.

73. Yadav A, Parida D, Muralidharan A.Ramya M **(2014)** Bioelectricity generation by proton exchange membrane-based microbial fuel cell from sewage substrate, Current Science 29: 106 (01)

74. Arthi, P., Shobana, S., Srinivasan, P., & Rahiman, A. K. **(2014)**. Synthesis, Antibacterial, Docking and Anticancer Evaluation of N-Substituted Benzoyl Derivatives. *Journal of the Chosun Natural Science*, *7*(4), 241-252.

75. Arul Jothi Nagarajan, Sivaraj Irusappan, Gautami Amarnath, Swathine Chandrasekaran, Sruthi Abirhami B K, Janitri V Babu , Harishankar M K, Devi.A. **(2014).** Expeditious synthesis of Silver nanoparticles by a novel strain S.pasteurii and patrocladogram analysis for exploration of its closely related species. ***IJSR.*** 3(2):63-65

76. SK Sharma, PV Kumar, R Poswal, R Rai, **AS Geetanjali**, K Prabha, RK Jain, VK Baranwal **(2014)** Occurrence and distribution of banana streak disease and standardization of a reliable detection procedure for routine indexing of banana streak viruses in India *Scientia Horticulturae* **179**, 277-283

77. Purushothaman. N, Newmaster. S.G, Ragupathy. S, Stalin. N, Suresh. D, Rex Arunraj. D, Gnanasekaran. G, Vassou. S.L, Narasimhan. D, Parani. M, **(2014)** A Tiered Barcode Authentication Tool to Differentiate Medicinal Species of Cassia in India, Genetics and Molecular Research.

2013

1. Karthikraj, R., Sridhar, L., Prabhakar, S., Raju, N.P., Murty, M.R.V.S., Vairamani, M. Mass spectral characterization of the CWC-related isomeric dialkyl alkylphosphonothiolates/alkylphosphonothionates under gas chromatography/mass spectrometry conditions (2013) Rapid Communications in Mass Spectrometry, 27 (13), pp. 1461-1472.
2. Balasubramani, P., Viswanathan, R., Vairamani, M. Response surface optimisation of process variables for microencapsulation of garlic (Allium sativum L.) oleoresin by spray drying (2013) Biosystems Engineering, 114 (3), pp. 205-213.
3. Niranjan, R., Koushik, C., Saravanan, S., Moorthi, A., Vairamani, M., Selvamurugan, N. A novel injectable temperature-sensitive zinc doped chitosan/β-glycerophosphate hydrogel for bone tissue engineering (2013) International Journal of Biological Macromolecules, 54 (1), pp. 24-29.
4. Sridhar, L., Karthikraj, R., Murty, M.R.V.S., Raju, N.P., Vairamani, M., Prabhakar, S. Mass spectral analysis of N-oxides of nitrogen mustards, and N,N-dialkylaminoethyl-2-chlorides under electrospray ionization conditions (2013) International Journal of Mass Spectrometry, 333, pp. 15-20.
5. Shabeena Yousuf Naqash and R. A. Nazeer, 2013. Antioxidant and functional properties of protein hydrolysates from pink perch (Nemipterus japonicus) muscle. Journal of Food Science and Technology, 50(5):972-78. (DOI: 10.1007/s13197-011-0416-y).
6. Nazeer, R.A., K.R. Divya Prabha, N.S. Sampath Kumar and R. Jai ganesh, 2013. Isolation of Antioxidant Peptides from Clam, Meretrix casta (Chemnitz). Journal of Food Science and Technology, 50(4):777-783. (DOI 10.1007/s13197-011-0395-z).
7. Nazeer, R.A. and Shabeena Yousuf Naqash, 2013. In vitro antioxidant activity of two molluscs, Loligo duvauceli Orbigny and Donax cuneatus Linnaeus, by solvent extraction methods. Mediterranean Journal of Nutrition and Metabolism, 6:1; 17-21. (DOI 10.1007/s12349-011-0088-1).
8. Nazeer, R.A., and M. Kavya Deepthi, 2013. Physicochemical and nanostructural properties of gelatin from uneconomical marine fish Fistularia petimba. Food Science and Biotechnology, 22:1; 9-14. (DOI 10.1007/s10068-013-0002-3).
9. Sampath Kumar, N.S., and R. A. Nazeer, 2013. Characterisation of acid and pepsin soluble collagen from the skin of horse mackerels (Magalaspis cordyla) and croaker (Otlithes ruber). International Journal of Food Properties, 16:3; 613 -621. (DOI:10.1080/10942912.2011.557796).
10. Nazeer, R. A. and R. Deeptha, 2013. Antioxidant activity and amino acid profiling of protein hydrolysates from the skin of Sphyraena barracuda and Lepturacanthus savala. International Journal of Food Properties, 16:3; 500 -511. (DOI: 10.1080/10942912.2011.553757).

11. Prabakaran P., W. Hopper, R. Rao 2013. Comprehensive database of Chorismate synthase enzyme from shikimate pathway in pathogenic bacteria. BMC Pharmacology and Toxicology 14: 29-35. DOI:10.1186/2050-6511-14-29, (IF: 2.28).
12. Tamilvanan T., W. Hopper 2013. Active site specific pharmacophore-based screening for methyltransferase inhibitors. Journal of Pharmacy Research 7(1):121-126.
13. Tamilvanan T., W. Hopper 2013. High-throughput virtual screening and docking studies of matrix protein VP40 of *Ebola* virus. Bioinformation 9(6):286

14. Selective modulation of lymphoproliferation and cytokine production via intracellular signaling targets by α1- and α2-adrenoceptors and estrogen in splenocytes Hanna Priyanka, Srinivasan Thyagarajan, International Immunopharmacology, 2013, 17(3) DOI: 10.1016/j.intimp.2013.08.020

15. Estrogen modulates in vitro T cell responses in a concentration- and receptor-dependent manner: Effects on intracellular molecular targets and antioxidant enzymes Hanna Priyanka, Harini Krishnan, Ran Vijay Singh, Lalgi Hima, Srinivasan Thyagarajan, Molecular Immunology, 2013, 56(4):328-339. DOI: 10.1016/j.molimm.2013.05.226

16. Menstrual cycle and reproductive aging alters immune reactivity, NGF expression, antioxidant enzyme activities, and intracellular signaling pathways in the peripheral blood mononuclear cells of healthy women Hanna Priyanka, Utsav Sharma, Srinivasan Gopinath, Varun Sharma, Lalgi Hima, Srinivasan Thyagarajan, Brain Behaviour and Immunity, 2013,(32).

17. Prevention of Mammary Tumor Development through Neuroimmunomodulation in the Spleen and Lymph Nodes of Old Female Sprague-Dawley Rats by L-Deprenyl, Srinivasan Thyagarajan, Lily Tran, Christine A Molinaro, Daila Gridley, David L Felten, Denise L Bellinger, NeuroImmunoModulation, 2013, 20(3):141-151. DOI: 10.1159/000346200

18. Estrogen modulates neural-immune interactions through intracellular signaling pathways and antioxidant enzyme activity in the spleen of middle-aged ovariectomized female rats Pratamesh Kale, Aparna Mohanty, Anushree Patil, Miti Mishra, Uday Pratap, Hanna Priyanka, Srinivasan Thyagarajan, Journal of neuroimmunology, 2013, 267(1-2) DOI: 10.1016/j.jneuroim.2013.11.003

19. MicroRNAs: Synthesis, Gene Regulation and Osteoblast Differentiation S. Vimalraj and N. Selvamurugan (2013) Current Issues in Molecular Biology 15: 7-18. Impact Factor: 2.695
20. A novel injectable temperature-sensitive zinc doped chitosan/β-glycerophosphate hydrogel for bone tissue engineering

R. Niranjan, C. Koushik, S. Saravanan, A. Moorthi, M. Vairamani and N. Selvamurugan (2013) International Journal of Biological Macromolecules 54: 16-23; Impact factor: 5.162

21. Expression of miroRNA-30c and its target genes in human osteoblastic cells by nano-bioglass ceramic-treatment
    A. Moorthi, S. Vimalraj, C. Avani, Z. He, N. C. Partridge and N. Selvamurugan (2013) International Journal of Biological Macromolecules 56: 181-185; Impact factor: 5.162
22. Expression of matrix metalloproteinases in human breast cancer tissues C. S. Benson, S. D. Babu, S. Radhakrishna, N. Selvamurugan and B. R. Sankar (2013) Disease Markers 34: 395-405; Impact factor: 2.738
23. Biocomposite scaffolds containing chitosan/alginate/nano-silica for bone tissue engineering J. A. Sowjanya, J. Singh, T. Mohita, S. Sarvanan, A. Moorthi, N. Srinivasan and N. Selvamurugan (2013)
    Colloids and Surfaces B: Biointerfaces 109: 294-300; Impact factor: 4.389
24. Chitosan scaffolds containing chicken feather keratin nanoparticles for bone tissue engineering S. Saravanan, D. K. Sameera, A. Moorthi and N. Selvamurugan (2013) International Journal of Biological Macromolecules 62: 481-486; Impact factor: 5.162
25. Regulation of breast cancer and bone metastasis by MicroRNAs S. Vimalraj, P. J. Miranda, B. Ramyakrishna and N. Selvamurugan (2013) Disease Markers 35: 369-387; Impact factor: 2.738
26. Grade Dependent Expression of Growth Factor Receptors and Signaling Molecules in Breast Cancer C. S. Benson, S. D. Babu, S. Radhakrishna, N. Selvamurugan and B. R. Sankar (2013) Journal of Cancer therapy 4: 21-31; Impact Factor: 0.51
27. Inflammatory mediators of systemic inflammation in neonatal sepsis (2013). Sugitharini V, Prema A, Berla Thangam E. Inflamm Res, Dec 62(12):1025-34. (IF: 2.99)
28. Differential regulation of inflammatory mediators and granule-associated mediators in neonatal sepsis observed in cord and peripheral blood (2013). Muthukumar R, Berla Thangam E. Cytokine and Mediator Research, Dec 4; 5:33-37. (IF: 0.127)
29. Prediction of interaction of various apoptotic proteins with Sulforaphane (SFN) isolated from Brassica oleraceae using docking studies (2013). Renuka Devi J, and Berla Thangam E. International Journal of Research in Pharmaceutical Sciences, 4(1), 65-69. (IF: 0.24)
30. Sukesh K, Saranyah K, Suganya PR. Nisha M, Saleena LM*, Potent inhibitors precise to S1' loop of MMP-13, a crucial target for osteoarthritis, Journal of Molecular Graphics and Modeling 2013, 44:297-310.

31. Sukesh K, Vinod D, Saleena LM*. Field and Gaussian based 3D-QSAR studies on barbiturates as MMP-9 inhibitors. Medicinal chemistry research, 2013, 22:1-11.
32. Sekar TV, Ramkumar KM, Kira F and Paulmurugan R*. Therapeutic Evaluation of microRNAs by Molecular Imaging. Theranostics, 2013; 3(12): 964-985. (I.F.: 8.57; Citation: 23)

33. Ramkumar KM, Sekar TV, Kira F, Bhakkiyalakshmi E and Paulmurugan R*. Reporter Protein Complementation Imaging Assay to Screen and Study Nrf2 Activators in Cells and Living Animals. ACS- Analytical chemistry, 2013; 85(15):7542-9. (I.F.: 6.78; Citation: 38)

34. Ramkumar KM*, Manjula C, Bhakkiyalakshmi E, Krishnamurthi K, Devi SS, Rajaguru P. *In vitro* cytotoxicity of *Gymnema montanum* in human leukemia HL-60 cells: Induction of apoptotic cell death by mitochondrial membrane potential collapse. Cell proliferation, 2013; 46(3):263-71. (I.F.: 5.73; Citation: 14)

35. Ramkumar KM, Sekar TV, Bhakkiyalakshmi E, Kira F, Rajaguru P, Berger F and Paulmurugan R*. The impact of oxidative stress on islet transplantation and monitoring the graft survival by non-invasive imaging. Current Medicinal chemistry, 2013; 20(9):1127-46. (I.F.: 4.18; Citation: 20).

36. Chidambaram U, Pachamuthu V, Natarajan S, Elango B, Suriyanarayanan, Ramkumar KM*. *In vitro* evaluation of free radical scavenging activity of Codariocalyx motorius root extract. Asian Pacific Journal of Tropical Medicine. 2013; 6(3):188-94. (I.F.: 1.94; Citation: 21)

37. Kantha D. Arunachalam, Sathesh Kumar Annamalai, Aarrthy M. Arunachalam, Subhashini S., 2013, "Green synthesis of crystalline silver nanoparticles using *Indigofera aspalathoides* – medicinal plant extract for wound healing applications," Asian Journal of Chemistry, Vol.(25) Supplementary Issue (2013), S311 – S314. Impact Factor: 0.27
38. Rupachandra, S. and Sarada, D.V.L., "Anticancer activity of methanol extract of seeds of *Borreria hispida* and *Momordica dioica*", Journal of Pharmacy Research (Scopus indexed), 6: 565-568, 2013.
39. Niti Sarat, Barathi S, (2013) Enrichment and Isolation of Endosulfan Degrading Microorganisms in Cashew Plantations of Kasargod District, Kerala, International Journal of ChemTech Research, 5(1): 06-14.

40. Ramya N, Renganathan. K, Barathi S, Venkatraman. K (2013) Performance of salt-bridge microbial fuel cell at various agarose concentrations using hostel sewage waste as substrate, International Journal of Advancements in Research & Technology, 2(5):326-330.
41. Muthukumar R, Thangam EB. Differential regulation of inflammatory mediators and granule-associated mediators in neonatal sepsis observed in cord and peripheral blood. International Journal of Interferon, Cytokine and Mediator Research. 2013 Dec 4;5:33-7.
42. Sridhar MP, Nandakumar N, Rengarajan T, Balasubramanian MP. Amelioration of mercuric chloride induced oxidative stress by Hygrophila auriculata (K. Schum) Heine via modulating the oxidant-antioxidant imbalance in rat liver. Journal of Biochemical Technology. 2013 Jul 8;4(3):622-7.

43. Nazeer, R.A., K.R. Divya Prabha, N.S. Sampath Kumar and R. Jai ganesh, 2013. Isolation of Antioxidant Peptides from Clam, *Meretrix casta* (Chemnitz). Journal of Food Science and Technology, 50(4): 777–783.
44. Devjyoti Dalal, Gouri Chaudhuri, Pritam Dey, P. Venu-Babu, W. Richard Thilagaraj, "Kinetic Behaviour of Calf-Intestinal Alkaline Phosphatase with pNPP," Indian Journal of Biochemistry and Biophysics 50 (1):64-71 (2013).
45. Devjyoti Dalal, Gouri Chaudhuri, Pritam Dey, P. Venu- Babu, W. Richard Thilagaraj, "Enzymatically mediated bioprecipitation of heavy metals from industrial wastes and single ion solutions by mammalian alkaline phosphatase'. Journal of Environmental Science and Health Part A Toxic/Hazardous Substances & Environmental Engineering, 48(1):79-85. (2013).
46. Devjyoti Dalal, Gouri Chaudhuri, Pritam Dey, P. Venu- Babu, W. Richard Thilagaraj, "A Novel Approach to Precipitation of Heavy Metals from Industrial Effluents and Single-Ion Solutions Using Bacterial Alkaline Phosphatase". Water, Air, & Soil Pollution. 224: 6-11 (2013).
47. Deepika Jothinathan., Richard Thilagaraj Wilson, "A study on bioelectricity production by the synergistic action of *Bacillus tequilensis* DMR -5 and *Pseudomonas aeruginosa* DMR-3 isolated from rumen fluid". American Journal of Environmental Sciences, 9(5): 424-430. (2013).
48. Studies on the behaviour of reactive dyes onto the crosslinked chitosan using adsorption isotherm Pandimadevi M Deepika R, Venkatesh Prabhu M International Journal of Environmental Science 2013, 4(3), 323-351
49. Isolation And Characterization Of Cellulase Producing Paracoccus Pantotrophus Fmr19 (Jx012237) From Goat Rumen Fluid And Its Effects On pH temperature and carbon sources Pandimadevi M Faritha Begum, International Journal of Advanced Biotechnology and Research 2013, 4(3), 384-390
50. Adsorption kinetics of acid brown dye from aqueous solution using biowaste Pandimadevi M Sunil Rajamony, Muthukumaraqn C, Asian Journal of Science and Technology 2013, 4(3), 1-5
51. Screening, Characterization and Optimization of Cellulase Producing Bacteria Isolated from Paper Sludge Pandimadevi M Faritha Begum International Journal of Scientific Research 2013, 2, 175-180
52. **J. Das**, P. Velusamy*. Antibacterial effects of biosynthesized silver nanoparticles using aqueous leaf extract of *Rosmarinus officinalis* L. Material Research Bulletin. 48 (2013) 4531–4537. **IF – 4.0**
http://www.sciencedirect.com/science/article/pii/S0025540813006375

53. **J. Das**, M.P. Das, P. Velusamy*. *Sesbania grandiflora* leaf extract mediated green synthesis of antibacterial silver nanoparticles against selected human pathogens. Spectrochimica Acta Part A. 104 (2013) 265–270. **IF – 3.2**
http://www.sciencedirect.com/science/article/pii/S1386142512011869

54. **J. Das**, P. Velusamy*. Biogenic synthesis of antifungal silver nanoparticles using aqueous stem extract of banana. Nano Biomedicine Engineering. 5 (**2013**) 34–38. **SNIP – 0.39**
http://nanobe.org/index.php?journal=nbe&page=article&op=view&path%5B%5D=216

55. S. Das, M.P. Das, **J. Das***. Fabrication of porous chitosan/silver nanocomposite film and its bactericidal efficacy against multi-drug resistant (MDR) clinical isolates. J. Pharm. Res. 6 (2013) 11–15. **IF– 1.1**
http://www.sciencedirect.com/science/article/pii/S0974694312000072

56. J. Das, P. Velusamy*, 2013. Antibacterial effects of biosynthesized silver nanoparticles using aqueous leaf extract of Rosmarinus officinalis L. Materials Research Bulletin. Vol. 48: 4531–4537.

57. V. Gopinath and P. Velusamy*, 2013. Extracellular biosynthesis of silver nanoparticles using Bacillus sp. GP-23 and evaluation of their antifungal activity towards Fusarium oxysporum. Spectrochimica Acta Part A: Molecular & Biomolecular Spectroscopy. Vol. 106: 170–174.

58. J. Das, M.P. Das and P. Velusamy*, 2013. Sesbania grandiflora leaf extract mediated green synthesis of antibacterial silver nanoparticles against selected human pathogens. Spectrochimica Acta Part A: Molecular & Biomolecular Spectroscopy. Vol. 104: 265–270.

59. S. Priyadarshini, V. Gopinath, N. Meera Priyadharsshini, D. MubarakAli and P. Velusamy*, 2013. Synthesis of anisotropic silver nanoparticles using novel strain, Bacillus flexus and its biomedical application. Colloids and Surfaces B:Biointerfaces. Vol. 102: 232-237.

60. V. Gopinath, S. Priyadarshini, N. Meera Priyadharsshini, K. Pandian and P. Velusamy*, 2013. Biogenic synthesis of antibacterial silver chloride nanoparticles using leaf extracts of Cissus quadrangularis Linn. Materials Letters. Vol. 91: 224-227.

61. V. Gopinath, D. MubarakAli., S. Priyadarshini., N. Meera Priyadharsshini., T. Noor and P. Velusamy*, 2013. Biosynthesis of silver nanoparticles from Tribulus terrestris and its

Antimicrobial activity: A novel biological approach. Colloids and Surfaces B: Biointerfaces. Vol. 96: 69-74.

62. J. Das and P. Velusamy*, 2013. Biogenic Synthesis of Antifungal Silver Nanoparticles Using Aqueous Stem Extract of Banana. Nano Biomedicine and engineering. Vol. 5: 34-38.

63. P. Velusamy*, J.E. Immanuel, S.S. Gnanamanickam, 2013. Rhizosphere Bacteria for Biocontrol of Bacterial Blight and Growth Promotion of Rice. Rice Science. Vol. 20: 356-362.
64. R. Geethalakshmi and **Sarada, DVL** (2013). Characterization and antimicrobial activity of gold and silver nanoparticles synthesized using saponin isolated from *Trianthemadecandra* L. Industrial Crops and Products **51**: 107-115.

65. R. Geethalakshmi, C. Sakravarthi, T. Kritika, M. Arul Kirubakaran, and **Sarada, DVL**. (2013). Evaluation of Antioxidant and Wound Healing Potentials of SphaeranthusamaranthoidesBurm.f. BioMed Research International. 2013, Article ID 607109, 7 pages http://dx.doi.org/10.1155/2013/607109.

66. Geethalakshmi. R., and **Sarada, DVL (**2013**)** Evaluation of antimicrobial and antioxidant activity of essential oil of *Trianthema decandra* L. Journal of Pharmacy Research **6**: 101-106.

67. S.Rupachandra and **Sarada, DVL** (2013) Anticancer activity of methanol extract of the seeds of *Borreria hispida* and *Momordica dioica* Journal of Pharmacy research **6:** 565-568.
68. Ramya D, Varsha K.R., Ranjitha V, Kumar P.S., **Kumar V. V.,** (2013) Magnetic nanoparticles as versatile carriers for immobilization of laccase, *Research Journal of Engineering and Technology*, 4 (4), 279-283.
69. Shanmugam, S., **Anju, T**., Veluswamy, P., Betala, S. A., Singh, C. P., & Singh, S. (2013). Development and Characterization of Poly-e-Caprolactone Based Microspheres-A Sustained Drug Delivery System for Treating Rheumatoid Arthritis. *Asian Journal of Chemistry*, *25*(March), S333–S336.

70. *In vitro* studies on adhesion and the effect of cytotoxicity of *Bifidobacterium* spp. Using cell lines". S. Subhashini, **J. Lavanya** , Dr. S. Meignanalakshmi (2013) European Scientific Journal, 9(18) DOI: https://doi.org/10.19044/esj.2013.v9n18p%p
71. Therapeutic proteins and peptides from edible and medicinal mushrooms review (2013) **J. Lavanya,** S. Subhashini, European Scientific Journal, 9(24)DOI:https://doi.org/10.19044/esj.2013.v9n24p%p

72. Screening of antibacterial and cytotoxic activity of extracts from epidermis and epidermal mucus of *Barbonymus schwanenfeldii* (TINFOIL BARB FISH)", S.Subhashini , **J.Lavanya** , Shikha Jain , Trisha Agihotri (2013) IJRET. DOI: 10.15623/ijret.2013.0204014
73. Isolation, partial purification of proteins produced by *Lactobacillus bifermentans* and its antibacterial properties", **J. Lavanya**, S. Subhashini (2013) IJRET 2(4), 528 – 532 DOI:10.15623/IJRET.2013.0204021

74. n vitro studies on adhesion and the effect of cytotoxicity of Bifidobacterium spp. Using cell lines. **S.Subhashini**, J.Lavanya , Dr.S.Meignanalakshmi, "". European Scientific Journal, Edition vol.9, No.18, (2013) DOI - https://doi.org/10.19044/esj.2013.v9n18p%25p

75. Therapeutic proteins and peptides from edible and medicinal mushrooms – Review. J.Lavanya, **S.Subhashini**, European Scientific Journal, vol.9, (2013) **DOI:** https://doi.org/10.19044/esj.2013.v9n24p%25p

76. Screening of antibacterial and cytotoxic activity of extracts from epidermis and epidermal mucus of barbonymus schwanenfeldii (tinfoil barb fish). **S.Subhashini** , J.Lavanya , Shikha Jain , Trisha Agihotri, International Journal of Research in Engineering and Technology 02(04):492-497 (2013). DOI: 10.15623/ijret.2013.0204014

77. Isolation, partial purification of proteins produced by lactobacillus bifermentans and its antibacterial properties. J. Lavanya, **S. Subhashini**, IJRET , Volume: 02 Issue: 04, 528 – 532 (2013).

78. Mirnalini, Rathinasabapathi.P, Rex Arunraj, Muralidharan .A **(2013)** Relative variability in transformational efficiency of $CaCl_2$, $MgCl_2$, Tris-HCl, and Tris EDTA in *Eschericia coli* and *Agrobacterium tumefaciens*. Indian Journal of Applied Research. 3(5): 214 – 216.
79. Devadas Samyukthaa, Rathinasabapathi .P **(2013)** On Field Detection of White Spot Syndrome Virus (WSSV) infected Shrimp using Loop Mediated Isothermal Amplification. Research Journal of Biotechnology 8(6): 13-17. IF-0.3
80. Radha S, Aliya Fatima, Iyyappan S, Ramya M (2013), Direct colony PCR for rapid identification of varied microalgae from fresh water environment, Journal of Applied Phycology (2): 609-613
81. Madhavan T, Gadhe CG, Kothandan Cho SJ. **(2013)**. Enhancement of P-gylcoprotein modulators of arylmethylaminephenyl derivatives: an integrative modeling approach. Med Chem Res. 22:2511-2523
82. Anuradha V, Praveena A, Habeeb SKM, others. Identification of Drug Targets through Mutational Analysis of Drug Resistance Genes in Candida albicans. Res J Pharm

Technol. 2013;6(3):267–77

83. Mrinalini, Rathinasabapathi, Rex Arunraj and Muralidharan, (2013) Relative variability in transformational efficiency of CaCl2, MgCl2, Tris-HCl, and Tris EDTA in E coli and Agrobacterium tumefaciens,Indian journal of Applied Research 3(5):214-216

2012

1. Nagaveni, V., Sravani, M., Darshan, D.V., Prabhakar, S., Vairamani, M. Study on the noncovalent interactions of antiepileptic drugs and amyloid β 1-40 peptide by electrospray ionization mass spectrometry (2012) Rapid Communications in Mass Spectrometry, 26 (19), pp. 2372-2376.
2. Karthikraj, R., Prabhakar, S., Vairamani, M.
   Differentiation of enantiomeric drugs by iodo-substituted L-amino acid references under electrospray ionization mass spectrometric conditions
   (2012) Rapid Communications in Mass Spectrometry, 26 (11), pp. 1385-1391.
3. Vairamani, M., Prabhakar, S. Mass spectrometry in India (2012) European Journal of Mass Spectrometry, 18 (1), pp. 1-35.
4. Naresh Chary, V., Dinesh Kumar, C., Vairamani, M., Prabhakar, S. Characterization of amino acid-derived betaines by electrospray ionization tandem mass spectrometry (2012) Journal of Mass Spectrometry, 47 (1), pp. 79-88.
5. Rasool Abdul Nazeer and Nune Satya Sampath Kumar, 2012. Fatty composition of horse mackerel (Magalaspis cordyla) and croaker (Otolithes ruber). Asian Pacific Journal of Tropical Disease, 4:2: S933-S936. (doi.org/10.1016/S2222-1808(12)60294-1).
6. Shabeena Yousuf Naqash and R. A. Nazeer, 2012. *In vitro* antioxidant and antiproliferative activities of bioactive peptide isolated from *Nemipterus japonicus* backbone. International Journal of Food Properties, 15:6; 1200-1211. (DOI: 10.1080/10942912.2010.517342). (1.007).
7. Sampath Kumar N.S. and R. A. Nazeer, 2012. Wound healing properties of collagen from the bone of two marine fishes. International Journal of Peptide Research and Therapeutics, 18:185-192. (DOI 10.1007/s10989-012-9291-2).
8. Sampath Kumar, N.S., and R. A. Nazeer, 2012. Functional properties of protein hydrolysates from different body parts of horse mackerel (*Magalaspis cordyla*) and croaker (*Otolithes ruber*). Mediterranean Journal of Nutrition and Metabolism, 5:105-110. (DOI: 10.1007/s12349-011-0078-3).
9. Nune Satya Sampath Kumar and Rasool Abdul Nazeer, 2012. *In vivo* antioxidant activity of peptide purified from viscera protein hydrolysate of horse mackerel (*Magalaspis cordyla*). International Journal of Food Science and Technology, 47:7;1558-1562. (DOI: 10.1111/j.1365-2621.2012.03002.x).
10. Shabeena Yousuf Naqash and R. A. Nazeer, 2012. Optimization of enzymatic hydrolysis conditions for the production of antioxidant peptides from muscles of *Nemipterus japonicus* and *Exocoetus volitans* using response surface methodology. Amino Acids, 43:337-345. (DOI: 10.1007/s00726-011-1084-y). (4.106).
11. Nazeer, R.A., N.S. Sampath Kumar and R. Jai ganesh, 2012. *In vitro* and *in vivo* studies on the antioxidant activity of fish peptide isolated from the croaker (*Otolithes ruber*) muscle protein hydrolysate. Peptides, 35:261-268. (dx.doi.org/10.1016/j.peptides.2012.03.028).

12. Sampath Kumar, N.S., R. A. Nazeer and R. Jai ganesh, 2012. Purification and identification of antioxidant peptides from the skin protein hydrolysate of two marine fishes, horse mackerel (*Magalaspis cordyla*) and croaker (*Otolithes ruber*). Amino Acids, 42:1641-1649. (DOI: 10.1007/s00726-011-0858-6).
13. Nazeer, R.A., and K. Anila Kulandai, 2012. Evaluation of antioxidant activity of muscle and skin protein hydrolysates from giant kingfish, *Caranx ignobilis* (Forsskål, 1775). International Journal of Food Science and Technology, 47:274-281. (DOI:10.1111/j.1365-2621.2011.02836.x).
14. Ahameethunisa A.R., W. Hopper 2012. *In vitro* antimicrobial activity on clinical microbial strains and antioxidant properties of *Artemisia parviflora*. Annals of Clinical Microbiology and Antimicrobials 11: 30. DOI:10.1186/1476-0711-11-30, (IF: 2.71).
15. Vadivu G., W. Hopper 2012. Ontology Mapping of Indian Medicinal Plants with Standardized Medical Terms. Journal of Computer Science 8(9):1576-1584.
16. Bio-composite scaffolds containing chitosan/nano-hydroxyapatite/nano-copper-zinc for bone tissue engineering A. Tripathi, S. Saravanan, S. Pattnaik, A. Moorthi, N. C. Partridge and N. Selvamurugan (2012) International Journal of Biological Macromolecules 50: 294-99; Impact factor: 5.162
17. Synthesis, Characterization, and Antimicrobial Activity of nano-Hydroxyapatite-Zinc for Bone Tissue Engineering Applications M. Swetha, K. Sahithi, A. Moorthi, N. Saranya, S. Saravanan, K. Ramasamy, N. Srinivasan and N. Selvamurugan (2012) Journal of Nanoscience and Nanotechnology 12: 167-172; Impact factor: 1.354
18. Synthesis, Characterization and Biological Action of Nano-Bioglass Ceramic Particles for Bone Formation A. Moorthi, S. Saravanan, N. Srinivasan, N. C. Partridge, J. Zhu, L. Qin, and N. Selvamurugan (2012) Journal of biomaterials and Tissue Engineering 2: 197-205 Impact factor: 0.824
19. Mechanisms of Anticancer Activity of Sulforaphane from *Brassica oleracea* in HEp-2 Human Epithelial Carcinoma Cell Line (2012). J.Renuka Devi and E.Berla Thangam. Asian Pacific J Cancer Prev, 13: 2095-2100. (IF:2.52)
20. A Bioinformatics Search for Histamine H4 Receptor Antagonists through Structure – based Virtual Screening Strategies (2012). Fenila C, E.Berla Thangam and M.Xavier Suresh. Chemical Biology & Drug Design, 79:749-759. (IF: 2.548)
21. Studies on antioxidant and antimicrobial activities of Purified Sulforaphane from Brassica oleraceae var rubra (2012). J. Renuka Devi and E. Berla Thangam. Journal of Pharmacy Research,5(7),3582-3584.
22. BiodEnz: A Database of Biodegrading enzymes (2012). Shobana S., Berla Thangam. E, Bioinformation, 8(1): 040:042.
23. Biodegradation and decolorization of Reactive orange 16 using Nocardiopsis alba soil isolate (2012). Shobana S and Berla Thangam E. Journal of Bioremediation & Biodegradation 3:155

24. Evolutionary Trace Analysis of Azoreductase at the Ligand Ninding Site and Enhancing the Active Site though Site Directed Mutagenesis (2012). Shobana S. and Berla Thangam E, Kashmir Raja S V. Journal of Proteomics and Bioinformatics,5(9):222
25. Sukesh K, Valdivian S, Sanam R, Sarma ARP, Jagarlapudi, Saleena LM*. Lead identification and optimization of novel collagenase inhibitors; pharmacophore and structure-based studies, Bioinformation, 2012, 8(7): 301-308.
26. Ramkumar KM*, Manjula C, Gnanakumar G, Kanjwal MA, Sekar TV, Paulmurugan R, Rajaguru P. Oxidative stress-mediated cytotoxicity and apoptosis induction by TiO(2) nanofibers in HeLa cells. European Journal of Pharmaceutics and Biopharmaceutics. 2012; 81(2):324-33. (I.F.: 4.60; Citation: 60)

27. Kantha D. Arunachalam, Subhashini S., Sathesh Kumar A., 2012, "Wound healing and antigenotoxic activities of *Aegle marmelos* with relation to its antioxidant properties," Journal of Pharmacy Research 5(3), pp.1492-1502. Impact Factor: 2.36

28. Iyappan.S, Ramasamy.K and Barathi S, (2012) Statistical media optimization and comparative proteome analysis for protease production from isolated *Pseudomonas aeruginosa*, J. Pharma Research, 5(3):1451-1456.
29. Nazeer, R.A., N.S. Sampath Kumar and R. Jai ganesh, 2012. *In vitro* and *in vivo* studies on the antioxidant activity of fish peptide isolated from the croaker (*Otolithes ruber*) muscle protein hydrolysate. Peptides. 35 (2): 261-268.
30. G. Kulshreshtha and P. Velusamy*, 2012. Antibacterial potential of bioactive compounds from fermented culture of Pseudomonas aeruginosa SRM1 against Xanthomonas oryzae pv. oryzae. Minerva Biotecnologica. Vol. 24: 29-36.
31. R. Geethalakshmi and **Sarada, DVL** (2012). Gold and silver nanoparticles from *Trianthema decandra*: Synthesis, Characterization and antimicrobial properties. International Journal of Nanomedicine. 7: 5375-5384.

32. S. Sangeetha and **Sarada, DVL** (2012) Antifungal activity of phenyl derivative of Pyranocoumarin from *Psoralea corylifolia* L. seeds by inhibition of acetylation activity of Tricothecene 3-O-Acetyl transferase (Tri101)Journal of Biomedicine and Biotechnology. Article ID 310850,8pages http://dx.doi.org/10.1155/2012/310850.

33. S. Sangeetha and **Sarada, DVL** (2012) *Psoralea corylifolia* L. seeds: A phytochemical review. Journal of Pharmacy Research5:1694-1695.
34. Joseph Alex Davis, Suchitra Sharma, Shivani Mittra, **S. Sujatha**, Anil Kanaujia, Gyanesh Shukla, Chandrakant Katiyar, B.S. Lakshmi, Vinay Sheel Bansal, Pradip Kumar Bhatnagar. Antihyperglycemic effect of *Annona squamosa* hexane extract in type 2 diabetes animal model: PTP1B inhibition, a possible mechanism of action. **Indian Journal of Pharmacology.** 44 (2012) Issue 3, pp. 326-332. (IF: 1.44)

2011

1. Aslam, A.M., Rajagopal, S., Vairamani, M., Ravikumar, M. Iron(III)-salen-H2O2 as a peroxidase model: Electron transfer reactions with anilines (2011) Transition Metal Chemistry, 36 (7), pp. 751-759.
2. Sravani, M., Nagaveni, V., Prabhakar, S., Vairamani, M. G-quadruplex formation of deoxyguanosine in the presence of alkaline earth metal ions studied by electrospray ionization mass spectrometry (2011) Rapid Communications in Mass Spectrometry, 25 (14), pp. 2095-2098.
3. Sridhar, L., Karthikraj, R., Murty, M.R.V.S., Raju, N.P., Vairamani, M., Prabhakar, S. Mass spectral analysis of N-oxides of Chemical Weapons Convention related aminoethanols under electrospray ionization conditions (2011) Rapid Communications in Mass Spectrometry, 25 (4), pp. 533-542.
4. Nagaveni, V., Sravani, M., Prabhakar, S., Vairamani, M. Differential interactions of isomeric amino sugars with insulin studied under electrospray ionisation mass spectrometry 2011) European Journal of Mass Spectrometry, 17 (5), pp. 485-495.
5. Sivaleela, T., Nagaveni, V., Prabhakar, S., Vairamani, M. Chiral discrimination of drugs by DNA tetranucleotides under electrospray ionisation conditions (2011) European Journal of Mass Spectrometry, 17 (2), pp. 177-186.
6. Nagaveni, V., Sravani, M., Prabhakar, S., Sreedhar, B., Vairamani, M. Targeting insulin amyloid assembly by aminosugars and their derivatives (2011) Protein and Peptide Letters, 18 (6), pp. 588-593.
7. Shabeena Yousuf Naqash and R. A. Nazeer, 2011. Anticoagulant, Antiherpetic and antibacterial activities of sulphated polysaccharide from Indian medicinal plant *Tridax procumbens* L. (Asteraceae). Applied Biochemistry and Biotechnology, 165:902-912. (DOI: 10.1007/s12010-011-9307-y).
8. Nazeer, R.A. and T.S. Srividhya, 2011. Antioxidant peptides from the protein hydrolysates of *Conus betulinus*. International Journal of Peptide Research and Therapeutics, 17:3;231-237. (DOI: 10.1007/s10989-011-9262-z).
9. Nazeer, R. A., R. Deeptha, R. Jai ganesh, N.S. Sampathkumar and Shabeena Yousuf Naqash, 2011. Radical scavenging activity of Seela (*Sphyraena barracuda)* and Ribbon fish (*Lepturacanthus savala)* backbone protein hydrolysates. International Journal of Peptide Research and Therapeutics, 17:3;209-216. (DOI: 10.1007/s10989-011-9260-1).
10. Shabeena Yousuf Naqash and Rasool Abdul Nazeer, 2011. Identification of active peptides from backbones of *Nemipterus japonicus* and *Exocoetus volitans* by electrospray ionization-mass spectrometry. International Journal of Food Science and Technology. 46:1993-1996. (DOI: 10.1111/j.1365-2621.2011. 02691.x).
11. Jai ganesh, R., R. A. Nazeer and N. S. Sampath Kumar, 2011. Purification and Identification of antioxidant peptide from black pomfret, *Parastromateus niger* (Bloch, 1795) viscera protein hydrolysate. Food Science and Biotechnology. 20:4;1087-1094.(0.695). (DOI: 10.1007/s10068-011-0147-x).

12. Sampath Kumar, N.S., R.A. Nazeer and R. Jai ganesh, 2011. Purification and biochemical characterization of antioxidant peptide from horse mackerel (*Magalaspis cordyla*) visceral protein. Peptides, 32:7:1496-1501. (dx.doi.org/10.1016/j.peptides.2011.05.020) (2.654).
13. Shabeena Yousuf Naqash and R. A. Nazeer, 2011. Evaluation of bioactive properties of peptide isolated from *Exocoetus volitans* backbone. International Journal of Food Science and Technology, 46: 37-43. (1.259) (DOI: 10.1111/j.1365-2621.2010.02443.x).
14. Vadivu G., W. Hopper, G. BharatRam 2011. Semantic Data Integration and Querying Using SWRL. *In:* Trends in Network Communications – Communications in Computer and Information Science. D.C. Wyld, M. Wozniak. N. Chaki, N. Meghanathan and D. Nagamalai (Eds.), Vol. 197, Part 3, pp. 567-574, Spiringer Verlag, Berlin, Heidelburg.
15. Mohanalakshmi N., V. Aparna, W. Hopper 2011. Virtual screening of potential drug-like inhibitors against MexB efflux protein from *Pseudomonas aeruginosa*. International Proceedings of Chemical, Biological and Environmental Engineering 5:388-391.
16. Dinesh Kumar K., W. Hopper 2011. *In silico* anti-cancer activity prediction of secondary metabolites from *Salinispora* spp. International Proceedings of Chemical, Biological and Environmental Engineering 5:392-395.
17. Petchiammal C., W. Hopper 2011. Virtual screening and molecular docking studies of allontoic acid from *Phaseolus vulgaris* against nitric acid synthase. International Proceedings of Chemical, Biological and Environmental Engineering 5:396-398.
18. Aparna V., N. Mohanalakshmi, W. Hopper 2011. Structure-based pharmacophore and virtual screening for bacterial MexB efflux pump inhibitors. International Proceedings of Chemical, Biological and Environmental Engineering 5:458-461.
19. Effects of Cissus quadrangularis on the proliferation, differentiation and matrix mineralization of human osteoblast like SaOS-2 S. Muthusami, K. Senthilkumar, C. Vignesh, R. Illangovan, J. Stanley, N. Selvamurugan and N. Srinivasan (2011) Journal of Cellular Biochemistry 112: 1035-1045; Impact factor: 4.237
20. Chitosan and its derivatives for gene delivery (2011) N. Saranya, A. Moorthi, S. Saravanan, M. P. Devi and N. Selvamurugan International Journal of Biological Macromolecules 48: 234-238; Impact factor: 5.162
21. Preparation, Characterization and Antimicrobial activity of a Bio-composite Scaffold containing Chitosan/nano-Hydroxyapatite/nano-Silver for Bone Tissue Engineering
    S. Saravanan, S. Nethala, S. Pattnaik, A. Tripathi, A. Moorthi and N. Selvamurugan (2011) International Journal of Biological Macromolecules 49: 188-193; Impact factor: 5.162
22. Enhanced Osteoblast Adhesion on Polymeric Nano-Scaffolds for Bone Tissue Engineering N. Saranya, S. Saravanan, A. Moorthi, B. Ramyakrishna and N.

Selvamurugan (2011) Journal of Biomedical Nanotechnology 7: 238-244; Impact factor: 4.483

23. Chitosan scaffolds containing silicon dioxide and zirconia nano particles for bone tissue engineering S. Pattnaik, S. Nethala, A. Tripathi, S. Saravanan, A. Moorthi, and N. Selvamurugan (2011) International Journal of Biological Macromolecules 49: 1167-72; Impact factor: 5.162
24. Sachin Patil, Saleena LM, Yong-Wah Kim, Edith Weber, Hermann von Grafenstein Expression and purification of isotopically enriched MHC binding immunogenic peptides for NMR studies International Journal Peptide Research Therapeutics (2011) 17:137–145
25. Ramkumar KM*, Vanitha P, Uma C, Suganya N, Bhakkiyalakshmi E, Sujatha J. Antidiabetic activity of alcoholic stem extract of *Gymnema montanum* in streptozotocin-induced diabetic rats. Food and Chemical Toxicology. 2011; 49(12):3390-4. (I.F.: 4.68; Citation: 45)

26. Subhashini S., Kantha D. Arunachalam, and Sathesh Kumar A., 2011, "Preclinical studies on the phytochemical, antimicrobial and wound healing properties of *Indigofera aspalathoides* leaves," Journal of Pharmacy Research, 4(9), pp.3206-3211. Impact Factor: 2.36

27. Kantha D. Arunachalam, and Subhashini S.,2011, "Preliminary phytochemical investigations and wound healing activity of *Myristica andamanica* leaves in Swiss Albino mice," Journal of Medicinal Plant Research, 5(7), pp. 1095-1106. Impact Factor: 0.89

28. Subhashini S., and Kantha D. Arunachalam, 2011, "Investigation on the phytochemical activities and wound healing properties of *Adhatoda vasica* leaves in Swiss Albino mice," African journal of Plant Science, 5(2), pp. 133-145.
29. Rupachandra, S. and V. Nagini, Dinesh MG, Hans Raj Chandrasekharam, Raja Sidambaram, "Antioxidant activity of seed extracts of *Polyalthia longifolia*", International Journal of Pharmacy and Pharmaceutical Sciences (Scopus indexed , SNIP-0.803), 8:767-773, 2011.
30. Sampath Kumar, N.S., R. A. Nazeer and R. Jai ganesh, 2011. Purification and identification of antioxidant peptides from the skin protein hydrolysate of two marine fishes horse mackerel (*Magalaspis cordyla*) and croaker (*Otolithes ruber*). Amino Acids. 42 (5): 1641-1649
31. Nazeer, R. A., R. Deeptha, R. Jai ganesh, N.S. Sampathkumar and Shabeena Yousuf Naqash, 2011. Radical scavenging activity of Seela (*Sphyraena barracuda)* and Ribbon fish (*Lepturacanthus savala)* backbone protein hydrolysates. International Journal of Peptide Research and Therapeutics, 17:209-216.

32. Sampath Kumar, N.S., R.A. Nazeer and R. Jai ganesh, 2011. Purification and biochemical characterization of antioxidant peptide from horse mackerel (*Magalaspis cordyla*) visceral protein. Peptides, 32:7:1496-1501.
33. Jai ganesh, R., R. A. Nazeer and N. S. Sampath Kumar, 2011. Purification and Identification of antioxidant peptide from black pomfret, *Parastromateus niger* (Bloch, 1795) viscera protein hydrolysate. Food Science and Biotechnology. 20:4;1087-1094.
34. Tamarai Chelvi, Richard Thilagaraj.W, "Field Efficacy of formulations of microbial insecticide *Metarhizium anisopliae* (Hyphocreales: Clavicipitaceae) for the control of sugarcane whitegrub *Holotrichia serrata* F (Coleoptera: Scarabidae), Journal of Biopesticides, (2011).
35. W. Richard Thilagaraj, et al., "Molecular Machines, Biosensors and Bioremediation" in Biology for Engineers, McGraw Hill Education (India) Private Limited, (2011).
36. G. Padmasri and **Sarada, DVL** (2011) Isolation and characterization of stigmasterol and β sitosterol from *Acacia nilotica*L. Deliles sp Indica (Benth.) Brenan. Journal of Pharmacy Research 4: 3601-3602.
37. Kunga Mohan Ramkumar , Pachamuthu Vanitha, Chidambaram Uma, Natarajan Suganya,Elango Bhakkiyalakshmi, **Jaiganesh Sujatha**. Antidiabetic activity of alcoholic stem extract of Gymnema montanum in streptozotocin-induced diabetic rats. **Food and Chemical Toxicology.** 49 (2011) pp. 3390–3394. (IF: 4.6)

2010

1. Shabeena Yousuf Naqash and R. A. Nazeer, 2010. Antioxidant activity of hydrolysates and peptide fractions of *Nemipterus japonicus* and *Exocoetus volitans* muscle. Journal of Aquatic Food Product Technology, 19:3;180-192. (DOI:10.1080/10498850/2010.506256).
2. Deeptha Rajaram and Rasool Abdul Nazeer, 2010. Antioxidant properties of protein hydrolysates from marine fishes *Lepturacanthus savala* and *Sphyraena barracuda*. International Journal of Biotechnology and Biochemistry, 6(3):435-444.
3. Shanmugam, A., T. Bhuvaneshwari, R. A. Nazeer, S. Sambasivam, S. Vairamani, S. Ravindrand, S. Babuji and G. Devanathan, 2008. Pharmacological Properties of the venom of a marine gastropod *Babylonia spirata* (L.). Journal of Pharmacology and Toxicology, 3(3):222-229. (DOI: 10.3923/jpt.2008.222.229).
4. Ahameethunisa A., W. Hopper 2010. Antibacterial activity of *Artemisia nilagirica* leaf extracts against clinical and phytopathogenic bacteria. BMC Complementary and Alternative Medicine 10: 6. DOI:10.1186/1472-6882-10-6, (IF: 2.83). (*Highly accessed*).
5. Kannan P., C. Petchiammal, R. Mohankumar, W. Hopper 2010. *In vitro* antifungal activity of Indirubin isolated from a South Indian ethnomedicinal plant *Wrightia tinctoria* R.Br. Journal of Ethnopharmacology 132: 349-352. DOI:10.1016/j.jep.2010.07.050, (IF: 3.69)
6. Vadivu G., W. Hopper 2010. Semantic Linking and Querying of natural food, chemicals and diseases. International Journal of Computer Applications 11(4):35-38.
7. Shobana S., W. Hopper, R. Mohandoss 2010. Enhancing the active site of *Tramates versicolor* laccase through site directed mutagenesis - An *in silico* approach. International Journal of Chemical Sciences 8(5):S179-188.
8. Novel Carboxymethyl Derivatives of Chitin and Chitosan Materials and Their Biomedical Applications (2010) R. Jayakumar, M. Prabaharan, S. V. Nair, S. Tokura, H. Tamura and N. Selvamurugan Progress in Materials Science 55: 675-709; Impact factor: 31.560
9. HDAC4 represses matrix metalloprotenase-13 transcription in osteoblastic cells and parathyroid hormone controls this repression E. Shimizu, N. Selvamurugan, J. J. Westendorf, E. N. Olson and N. C. Partridge (2010) Journal of Biological Chemistry 285: 9616-9626; Impact factor: 4.238
10. Role of nano-fibrous poly(caprolactone) scaffolds on human mesenchymal stem cell attachment and spreading for in vitro bone tissue engineering–response to osteogenic regulators N. S. Binulal, M. Deepthy, N. Selvamurugan, K. T. Shalumon, S. Suja, M. Ullas, R. Jayakumar and S.V. Nair (2010) Tissue Engineering: Part A 16: 393-404; Impact factor: 3.496

11. Polymeric composites containing carbon nanotubes for bone tissue engineering K. Sahithi, M. Swetha, K. Ramasamy, N. Srinivasan and N. Selvamurugan (2010) International Journal of Biological Macromolecules 46: 281-3; Impact factor: 5.162

12. Biocomposites containing Natural Polymers and Hydroxyapatite for Bone Tissue Engineering (2010) M. Swetha, K. Sahithi, A. Moorthi, K. Ramasamy, N. Srinivasan and N. Selvamurugan International Journal of Biological Macromolecules 47: 1-4; Impact factor: 5.162
13. Synthesis and Characterization of nanoscale-Hydroxyapatite-Copper for Antimicrobial Activity towards Bone Tissue Engineering Applications K. Sahithi, M. Swetha, M. Prabaharan, A. Moorthi, N. Saranya, K. Ramasamy, N. Srinivasan, N. C. Partridge and N. Selvamurugan (2010) Journal of Biomedical Nanotechnology 6: 333-339; Impact factor: 4.483
14. Thirumurugan, A., Jiflin. G. J, Rajagomathi. G, Neethu Anns Tomy, Ramachandran, S., and Jaiganesh, R., 2010. Biotechnological synthesis of gold nanoparticles of Azadirachta indica leaf extract. International Journal of Biological Technology, 1(1):75-77.
15. Tamarai Chelvi, Richard Thilagaraj.W, "Laboratory and Field efficacy of Entomopathogenic fungi *Beauveria brongniarti, Beauveria bassiana* and *Metarhizium anisopliae* in the control Sugarcane White grub *(Holotrichia serrata,),* Biopesticides International, (2010).
16. Tamarai Chelvi, Richard Thilagaraj.W, "Laboratory culture and virulence of *Beauveria brongniarti* (Metschinikoff) isolates on sugarcane white grub *Holotrichia serrata* F (*Coleoptera: Scarabidae).* Journal of Biopesticides, (2010).
17. Geetha Lakshmi, R. and **Sarada, DVL** (2010). Evaluation of antimicrobial and antioxidant potentials of *Trianthema decandra* L. Asian journal of Biotechnology 2: 225-231.

18. Geetha Lakshmi, R. and **Sarada, DVL** (2010) "α-Amylase Inhibitory Activity of *Trianthema decandra* L. International Journal of Biotechnology and Biochemistry 6: 369-376.

19. R. Geethalakshmi, K. Ramasamy and **Sarada, DVL (**2010). *Trianthema decandra* L: A review on its phytochemical and pharmacological profile. International Journal of Engineering Science and Technology. 2: 976-979.

2009

1.Nazeer, R. A., N. S. Sampath Kumar, Shabeena Yousuf Naqash, R. Radhika, K. Rahul Kishore and Sivani R. Bhatt, 2009. Lipid Profiles of Threadfin bream (*Nemipterus japonicus*) Organs. Indian Journal of Marine Science, 38(4):461-463.

2.Saravanan, R., S. Sambasivam, A. Shanmugam, D. Sathish Kumar, T. Tamil Vanan and R. A. Nazeer, 2009. Isolation, purification and biochemical characterisatrion of conotoxin from *Conus figulinus* Linnaeus (1758). Indian Journal of Biotechnology, 8: 266-271.

3. Kannan P., Ramadevi S.R., W. Hopper 2009. Antibacterial activity of *Terminalia chebula* fruit extract. African Journal of Microbiology Research 3(4):180-184.

2008

1. Faisal K, Periasamy VS, **Sahabudeen S,** Radha A, Anandhi R, *Akbarsha MA.* (2008) Reproduction, 303-310, 135, Spermatotoxic effect of aflatoxin B1 in rat: extrusion of outer dense fibres and associated axonemal microtubule doublets of sperm flagellum. (IF - 3.1).

2007

1. Manoharan parthiban, Rengarajan Jaiganesh, Wilson Santhosh Kumar Aruni, **Sundaram Meignanalakshmi** and pachikani Ramadass. 2007. Rapid detection of Mycobacterium bovis in clinical samples using thp-1 cells. Veterinarski arhiv, 77(3), 265-270.
2. Insilco Analysis of putative metal binding protein profiling', **Richard Thilagaraj.W**, Shirmila Ramesh, Gautam. P, Advance Bioinformatics, (2007).

3. S. Anhuradha, V. Vijayagopal, **P. Radha**, R. Ramanujam. Kinetic Studies and Anaerobic Co-digestion of Vegetable Market Waste and Sewage Sludge, **Clean – Soil, Air, Water,** Volume 35, Issue 2, pages 197–199, **2007. (Impact Factor: 1.603)**

2006

1. Shanmugam, A., T. Bhuvaneshwari, M. Arumugam and R. A. Nazeer, 2006 (Jan-March). Tissue chemistry of *Babylonia spirata* (Linnaeus). Indian Journal of Fisheries, 53(1):33-39.
2. Kannan P., B. Shanmugavadivu, C. Petchiammal, W. Hopper 2006. *In vitro* antibacterial activity of *Wrightia tinctoria* leaf extracts against skin microorganisms. Acta Botanica Hungarica 48(3-4): 323-329. DOI:10.1556/ABot.48.2006.3-4.7 (IF: 0.589).

2005

1. **Richard Thilagaraj, W.** Renganathan, P. Gautam " Accumulation of Acid Orange 7, Acid Red 18 and Reactive Black 5 by growing Schizophyllum Commune", Bio resource Technology, (2005).