

## Publications in the year 2020

1. Biosynthesis of silica and copper nanoparticles from *Trichoderma*, *Streptomyces* and *Pseudomonas* spp. evaluated against collar canker and red root-rot disease of tea plants Karthik Natesan, Ponnusamy Ponnurugan, Balasubramanian Mythili Gnanamangai, Venkatesan Manigandan, Sebastian Prakash Joseph Joy, Chinnappan Jayakumar, Govindasamy Amsaveni. Archives of Phytopathology and Plant Protection. 1-30.
2. Efficacy of *Moringa oleifera*'s Therapeutic Compounds and its Antimicrobial Activity. G Devi, TN Suryadevara, LRV SAR Velaga, P Ponnurugan. Research Journal of Pharmacy and Technology 13 (8), 3867-3872.
3. Biosynthesis of Silver Nanoparticles from *Streptomyces* Spp., Characterization and Evaluating of Its Efficacy against *Phomopsis theae* and *Poria hypolateraria* in Tea Plants (*Camellia sinensis*). K Natesan, P Ponnurugan, BM Gnanamangai, M Suganya, S Kavitha. Nano Biomed. Eng 12 (3), 272-280.
4. Analgesic activity of *Annona squamosa* Linn fruit peels on Swiss Albino mice VSAR Velaga, N Suryadevara, RTC Ying, P Ponnurugan, G Devi. Research Journal of Pharmacy and Technology 13 (7), 3199-3204.
5. Decolourisation efficiency of immobilized silica nanoparticles synthesized by actinomycetes. Rajamanickam Mohanraj, Balasubramanian Mythili Gnanamangai, Shanmugam Poornima, Vankathir Oviyaa, Kanthasamy Ramesh, GiriRajan Vijayalakshmi, Muthusamy Nithya, Natesan Karthik, Ponnusamy Ponnurugan, Jayachandran Philip Robinson Materials Today: Proceedings.
6. Anti-microbial and Anti-oxidant Properties of Solvent Extract of Lichen Species Collected from Kodaikanal Hills, Western Ghats of Tamil Nadu R Kalidoss, M Mariraj, M Shenbagam, J Merlin Seles, K Arun Prasath, N Rajaprabu, P Ponnurugan Phytomedicine: Research and Development, 53.
7. Antibacterial Activity Of Lichen *Parmotrema* Spp. R Kalidoss, G Ayyappadasan, BM Gnanamangai, P Ponnurugan. International Journal of Pharmaceutical and Biological Science Archive 8 (2).
8. Studies On Population Density Of Different Bioinoculants In Turmeric Plantation Soils For Biocontrol Activity. M Nithya, P Ponnurugan, BM Gnanamangai. International Journal of Pharmaceutical and Biological Science Archive 8 (2).
9. Antibacterial activity of *elaecarpus* spp: an in vitro evaluation. P Ponnurugan, T Parimelazhagan, A Rajendran, P Gurusaravanan, T Sekar, M Suganya, Mythili Gnanamangai International Journal of Pharmaceutical and Biological Science Archive 8 (1).
10. Chapter-2 The Potent Cytotoxic and Antitumor Properties of Methanol Extract of *Moringa Oleifera* Leaves Nagaraja Suryadevara, LR Gopinath, Venkatasathya Sai Appala Raju Velaga, Gnanendra Shanmugam, P Ponnurugan Chief Editor, 25.

## Publications in the year 2019

11. Antitumor effect of proanthocyanidin induced apoptosis in human colorectal cancer (HT-29) cells and its molecular docking studies. Mani Suganya, Balasubramanian Mythili Gnanamangai, Balasubramanian Ravindran, Soon Woong Chang, Arokiyaraj Selvaraj, Chandramohan Govindasamy, Mohamed Farouk Elsadek, Ponnusamy Ponnurugan. BMC chemistry 13 (1), 1-14.
12. Optimized production of gamma poly glutamic acid ( $\gamma$ -PGA) using sago. Rajamanickam Mohanraj, Balasubramanian Mythili Gnanamangai, Kanthasamy Ramesh, Paneerselvam Priya, Ravichandran Srisunmathi, Shanmugam Poornima, Ponnusamy Ponnurugan, Jayachandran Philip Robinson. Biocatalysis and Agricultural Biotechnology 22, 101413.

13. Fabrication of chitosan-alginate microencapsulated curcumin coated scaffold to develop novel cotton crepe bandage. B Mythili Gnanamangai, M Suganya, R Sabarinathan, P Ponnurugan. *Indian Journal of Fibre & Textile Research (IJFTR)* 44 (3), 271-278.
14. Toxicity and anti-inflammatory study of *Parmotrema austrosinense* extract against oxozone induced intestinal inflammation in zebrafish (*Danio rerio*) model Shanmugam Poornima, Nagarajan Nagarjun, Ponnusamy Ponnurugan, Balasubramanian Mythili Gnanamangai, Selvaraj Narasimman. *Biocatalysis and Agricultural Biotechnology* 21, 101278.
15. Tea Polyphenols Chemistry for Pharmaceutical Applications. P Ponnurugan, S Kavitha, M Suganya, BM Gnanamangai. *Tea-Chemistry and Pharmacology*.
16. Mitochondrial dysfunction mediated apoptosis of HT-29 cells through CS-PAC-AgNPs and investigation of genotoxic effects in zebra (*Danio rerio*) fish model for drug delivery. Mani Suganya, Balasubramanian Mythili Gnanamangai, Chandramohan Govindasamy, Mohamed Farouk Elsadek, Arivalagan Pugazhendhi, Veeramani Chinnadurai, Arokiyaraj Selvaraj, Balasubramani Ravindran, Soon Woong Chang, Ponnusamy Ponnurugan. *Saudi Journal of Biological Sciences* 26 (4), 767-776.
17. Plasma treated fabrics coated with naturally derived Ag-NPs for biomedical application. Selvadurai Manjula, Olapalayam Lakshmanan Shanmugasundaram, Balasubramanian Mythili Gnanamangai, Ramalingam Pavithra, Shivaji Kavitha, Ponnusamy Ponnurugan *IET nanobiotechnology* 13 (4), 368-375.
18. Analysis of Antioxidants and Nutritional Assessment of Date Palm Fruits. BM Gnanamangai, S Saranya, P Ponnurugan, S Kavitha, Sudhagar Pitchaimuthu, P Divya. *Sustainable Agriculture Reviews* 34, 19-40.
19. Architectural effect of different tea clones on the development of blister blight disease. Ponnusamy Ponnurugan, Balasubramanian Mythili Gnanamangai, Kolandasamy Manjukurunambika. *Journal Of Applied Botany And Food Quality* 92, 7-14.

### **Publications in the year 2018**

20. Green-synthesis-derived CdS quantum dots using tea leaf extract: antimicrobial, bioimaging, and therapeutic applications in lung cancer cells. Kavitha Shivaji, Suganya Mani, Ponnusamy Ponnurugan, Catherine Suenne De Castro, Matthew Lloyd Davies, Mythili Gnanamangai Balasubramanian, Sudhagar Pitchaimuthu. *ACS Applied Nano Materials* 1 (4), 1683-1693.

### **Publications in the year 2017**

21. Phytofabrication of silver nanoparticles using *Bacopa monnieri* leaf extract and its antibacterial activity as well as oxidative stress-induced apoptosis of lung cancer. M Suganya, S Kavitha, BM Gnanamangai, P Ponnurugan. *IET Nanobiotechnology* 12 (3), 318-324.
22. Potassium solubilization, plant growth promoting substances by potassium solubilizing bacteria (KSB) from Southern Indian tea plantation soil. B Bagyalakshmi, P Ponnurugan, A Balamurugan. *Biocatalysis and Agricultural Biotechnology* 12, 116-124.
23. Biosynthesised silver and copper nanoformulation as foliar spray to control bird's eye spot disease in tea plantations. Balasubramanian Mythili Gnanamangai, Ponnusamy Ponnurugan, Sengottaiyan Eashwari Jeeva, Kolandasamy Manjukurunambika, Vishwanathan Elango, Kolandaivel Hemalatha, Jyoti Prasad Kakati, Rajamanickam Mohanraj, Somasundaram Prathap. *IET nanobiotechnology* 11 (8), 917-928.
24. Modulatory effect of dianthrone rich alcoholic flower extract of *Cassia auriculata* L. on experimental diabetes. Syed Zameer Ahmed Khader, Sidhra Syed Zameer Ahmed, Senthil Kumar Balasubramanian,

Thanga kumar Arunachalam, Geetha Kannappan, Mohamed Rafi Mahboob, Ponnurugan Ponnusamy, Kishore Ramesh. Integrative medicine research 6 (2), 131-140.

25. Characterization of Gamma Irradiation Absorbing Compounds from Lichens for Biomedical Applications. P Ponnurugan, G Ayyappadasan. Int J Radiol Radiat Ther 3 (4), 00071.
26. Antioxidant and cytotoxic activity of Tecoma stans against lung cancer cell line (A549) JP Robinson, K Suriya, R Subbaiya, P Ponnurugan. Brazilian Journal of Pharmaceutical Sciences 53 (3).
27. Hepatoprotective Studies of Methanolic Leaf Extract of Barringtonia acutangula (L) against Carbon Tetrachloride Induced Liver Injury in Wistar Rats. Fahad Khalid Aldhafiri, Balakrishnan Santhararaj, Gokulan Selvam, Khader Syed Zameer Ahamed, Ramasamy Subbaiya, Suriya Kumaresan, Ponnusamy Ponnurugan. Research Journal of Pharmacy and Technology 10 (1), 101-107.

### **Publications in the year 2016**

28. Evaluation of anti-cancer properties of lichens using albino wistar rats as an animal model. Shanmugam Poornima, Ponnusamy Ponnurugan, Khader Syed Zameer Ahmed, Ganesan Ayyappadasan, Fahad Khalid Aldhafiri, Balakrishnan Santhararaj. CRJ 4, 84.
29. Ameliorative potential of Solanum trilobatum leaf extract and fractions on lipid profile and oxidative stress in experimental diabetes. KZ Ahmed, SZ Sidhra, P Ponnurugan, BS Kumar. Pak. J. Pharm. Sci 29 (5), 1571-1578.
30. Antifungal activity of biosynthesised copper nanoparticles evaluated against red root-rot disease in tea plants. P Ponnurugan, K Manjugarunambika, V Elango, BM Gnanamangai. Journal of Experimental Nanoscience 11 (13), 1019-1031.
31. Biosynthesis of silver and gold nanoparticles using Trichoderma atroviride for the biological control of Phomopsis canker disease in tea plants. P Ponnurugan. IET nanobiotechnology 11 (3), 261-267.
32. Antagonistic activity of Pseudomonas isolates from Kolli hills against Fusarium aphanidermatum. N Suryadevara, P Ponnurugan, V Kanimozhi, K Manju. Biosciences Biotechnology Research Asia 7 (2), 769-776.
33. Survey, distribution pattern and elemental composition of lichens in Yercaud hills of Eastern Ghats in southern India. P Ponnurugan, G Ayyappadasan, RS Verma, S Nayaka. Journal of Environmental Biology 37 (3), 407.
34. Impact of various foliar diseases on the biochemical, volatile and quality constituents of green and black teas. P Ponnurugan, K Manjugarunambika, BM Gnanamangai. Australasian Plant Pathology 45 (2), 175-185.
35. Antibacterial activity of green tea leaves. P Ponnurugan, FK Aldhafiri, S Balakrishnan. Int. J. Microbiol. App. Sci 5 (11), 472-477.
36. Evaluation of Plant Growth-Promoting Actinomycetes on Vigna. P Ponnurugan, V Elango, A Sathya, R Vijayabharathi, S Gopalakrishnan. Plant Growth Promoting Actinobacteria, 275-286.

### **Publications in the year 2015**

37. Diosgenin reorganises hyperglycaemia and distorted tissue lipid profile in high-fat diet-streptozotocin-induced diabetic rats. Parim Brahma Naidu, Ponnusamy Ponnurugan, Mustapha Sabana Begum, Karthick Mohan, Balaji Meriga, Ramavat Ravindar Naik, Ganapathy Saravanan. Journal of the Science of Food and Agriculture 95 (15), 3177-3182.

38. Evaluation of *Streptomyces* spp. for effective management of *Poria hypolateritia* causing red root-rot disease in tea plants. V Elango, K Manjukurambika, P Ponmurugan, S Marimuthu. *Biological Control* 89, 75-83.
39. Novel strategy for enhanced expression and purification of recombinant Bacteriorhodopsin in *Escherichia coli*. JJJ Peter, C Chellaram, P Ponmurugan. *Research Journal of Biotechnology* 10 (5), 55-61.
40. Protein Engineering, M Ramya, P Ponmurugan, Alpha Science International.
41. Life Science Archives (LSA), B Gangathraprabhu, P Ponmurugan.