

Name : Dr. P. Ponmurugan

Designation : Associate Professor

Department : Botany

University/Institute : Bharthiar University

Place & Pincode : Coimbatore-641046

Mobile : 9865857816

E-Mail : drponmurugan@gmail.com

Area of specialization: Plant Biotechnology

1. Chitra, C., Gideon, M.D., **Ponmurugan, P.** and Mathivanan, N. 2020. Association of multiple fungal pathogens to rhizome rot disease of turmeric. *Archives of Phytopathology and Plant Protection*. DOI: 10.1080/03235408.2020.1749428. [**Impact Factor: 0.560**].
2. Uddandrao, V.V.S., Parim, B., Ramavat, R., Pothani, S., Vadivukkarasi, S., **Ponmurugan, P.**, Chandrasekaran, P. and Saravanan, G. 2020. Effect of S-allyl cysteine against diabetic nephropathy via inhibition of MEK1/2-ERK1/2-RSK2 signalling pathway in streptozotocin-nicotinamide induced diabetic rats. *Archives of Physiology and Biochemistry*. <https://doi.org/10.1080/13813455.2020.1811731>. [**Impact Factor: 1.730**].
3. Karthik, N., **Ponmurugan, P.**, Gnanamangai, B.M., Suganya, M. and Kavitha, S. 2020. Biosynthesis of silver nanoparticles from *Streptomyces* spp., characterization and evaluating its efficacy against *Phomopsis theae* and *Poria hypolateria* in tea plants (*Camellia sinensis*). *Nano Biomedicine and Engineering* **12** (3): 272-280. [**Impact Factor: 0.78**].
4. Karthik, N., **Ponmurugan, P.**, Gnanamangai, B.M., Manigandan, V., Joy, S.P.J., Jayakumar, C. and Amsaveni, G. 2020. Biosynthesis of silica and copper nanoparticles from *Trichoderma*, *Streptomyces* and *Pseudomonas* spp. evaluated against collar canker and red root rot disease of tea plants. *Archives of Phytopathology and Plant Protection*. DOI: 10.1080/03235408.2020.1817258. [**Impact Factor: 0.560**].
5. Nagaraja, S., Yong, K.B., Balavinayagamani, G., Sridevi, S., Nanthiney Devi, R., Malarvili, R., Gnanendra, S. and **Ponmurugan, P.** 2020. Molecular characterization of *Escherichia coli* from chickens in poultry farms of Malaysia. *Research Journal of Biotechnology* **15** (10): 1-10.
6. Mohanraj, R., Gnanamangai, B.M., Poornima, S., Oviyaa, V., Ramesh, K., Vijayalakshmi, G.R., Nithya, N., Karthik, N., **Ponmurugan, P.** and Robinson, J.P. 2020. Decolourisation efficiency of immobilized silica nanoparticles synthesized by actinomycetes. *Materials Today Proceedings*. <https://doi.org/10.1016/j.matpr.2020.04.139> [**Impact Factor: 0.694**].
7. **Ponmurugan, P.**, Gnanamangai, M.B. and Karunambika, K.M. 2019. Architectural effect of different tea clones on the development of blister blight disease. *Journal of Applied Botany and Food Quality* **92**: 7-14. [**Impact Factor: 1.20**].

8. Poornima, S., Nagarjun, N., **Ponmurugan, P.**, Gnanamangai, B.M. and Narasimman, S. 2019. Toxicity and anti-inflammatory study of *Parmotrema austrosinense* extract against oxozone induced intestinal inflammation in zebrafish (*Danio rerio*) model. *Biocatalysis and Agricultural Biotechnology* **21**: 101278. [**Impact Factor: 2.14**].
9. Nagaraja, S., Kwan, Y.I., Shanmugam, G., **Ponmurugan P.**, Ganapathy, B., Subramonie, S. and Velaga, V.S. 2019. Molecular docking of multidrug resistant *Klebsiella pneumoniae* from river water of Klang Valley, Malaysia. *Journal of Pure Applied Microbiology* **13** (4): 2141-2150. [**Impact Factor: 0.51**].
10. Mohanraj, R., Gnanamangai, B.M., Ramesh, K., Priya, P., Srisunmathi, R., Poornima, S., **Ponmurugan, P.** and Robinson, J.P. 2019. Optimized production of gamma poly glutamic acid (γ -PGA) production. *Biocatalysis and Agricultural Biotechnology* **22**: 101413. [**Impact Factor: 2.14**].
11. Gnanamangai, B.M., Suganya, M., Sabarinathan, R. and **Ponmurugan, P.** 2019. Fabrication of chitosan-alginate microencapsulated curcumin coated scaffold to develop novel cotton crepe bandage. *Indian Journal of Fibre Textile Research* **44**: 271-278. [**Impact Factor: 0.511**].
12. Kavitha, S., Mythili, G.B., Anitha, D., Vijayshankar, Asokan, C., Matthew, L., **Ponmurugan, P.** and Pitchaimuthu, S. 2019. Utilization of waste tea leaves as bio-surfactant in CdS quantum dots synthesis and their cytotoxicity effect in breast cancer cells. *Applied Surface Science* **487**: 159-170. [**Impact Factor: 4.43**].
13. Uddand Rao, V.V.S., Rameshreddy, P., Brahmanaidu, P., **Ponmurugan, P.**, Santhanaraj, B., Ravindar, N.R., Swapna, K., Pothani, S., Nemani, H., Meriga, B., Vadivukkarasi, S., Nivedha P. R. and Saravanan, G. 2019. Antiobesity efficacy of asiatic acid: downregulation of adipogenic and inflammatory processes in high fat diet induced obese rats. *Archives of Physiology and Biochemistry*. DOI: 10.1080/13813455.2018.1555668. [**Impact Factor: 1.806**].
14. Suganya, M., Gnanamangai, B.M., Ravindran, B., Chang, S.W., Selvaraj, A., Govindasamy, C., Elsadek, M.F. and **Ponmurugan, P.** 2019. Antitumor effect of proanthocyanidin induced apoptosis in human colorectal cancer (HT-29) cells and its molecular docking studies. *BMC Chemistry* **2019**: 13-21. [**Impact Factor: 2.284**].
15. Suganya, M., Gnanamangai, B.M., **Ponmurugan, P.** and Vijayan, P. 2019. Antineoplastic effect of PAC capped silver nanoparticles promote apoptosis in HT-29 human colon cancer cells. *Journal of Cluster Science* (2019). <https://doi.org/10.1007/s10876-019-01510-1> [**Impact Factor - 1.715**].
16. Zaoni L., Sathibabu, U.V.V., **Ponmurugan, P.**, Santhanaraj, B., Brahmanaidu, S., Vadivukkarasi C. and Saravanan, G. 2019. Asthma-alleviating potential of 6-gingerol: Effect on cytokines related mRNA expression in ovalbumin-sensitized asthma in rats. *Journal of Environmental Pathology, Toxicology and Oncology* **38** (1): 41–50. [**Impact Factor: 1.15**].
17. Swapna, K., Uddand Rao, V.V.S., Brahmanaidu, P., Ravindarnaik, R., Suresh, P., **Ponmurugan, P.**, Santhanaraj, B., Vadivukkarasi, S., Harishankar, N., Prathap Reddy, K., Nivedha, P.R. and Saravanan, G. 2019. Effects of asiatic acid, an active constituent in *Centella asiatica* (L.): restorative perspectives of streptozotocin-nicotinamide induced changes on lipid profile and

- lipid metabolic enzymes in diabetic rats. *Comparative Clinical Pathology*. <https://doi.org/10.1007/s00580-019-02955-6>. [**Impact Factor: 0.433**].
18. Santhanaraj, B., **Ponmurugan, P.**, Uddand Rao, V.V.S. and Saravanan, G. 2019. Ameliorative potential of Saudi Arabian date fruit (*Phoenix dactylifera* L.) varieties against Freund's complete adjuvant induced arthritis in rats. *Oriental Pharmacy and Experimental Medicine*. <https://doi.org/10.1007/s13596-019-00377-x>.
 19. Chenniappan, C., Mathivanan, N., Daniel, G.M., Ramaraj, G.B., **Ponmurugan, P.** Sekar, J. and Ramalingam, V.P. 2019. Biocontrol efficiency of native plant growth promoting rhizobacteria against rhizome rot disease of turmeric. *Biological Control* **129**: 55–64. [**Impact Factor: 1.635**].
 20. Suganya, M., Karthik, N., Kavitha, S., Mythili, G.B. and **Ponmurugan, P.** 2019. Cytotoxic effect induced apoptosis in lung cancer cell line on *Ageratina adenophora* leaf extract. *Biocatalysis and Agricultural Biotechnology* **22** (2019): 101381.
 21. Poornima, S., **Ponmurugan, P.**, Gnanamangai, M.B., Gayathri, G. Dheenadhayalan, K. and Ayyappadasan, G. 2018. Screening of biologically potent endolichenic fungi isolated from selected lichens habitat on silver oak tree. *Vegetos* **31** (3): 89-94. [**Impact Factor: 0.18**].
 22. Shanmugasundaram, O.L., Ahmed, K.S.Z., Sujatha, K., **Ponmurugan, P.**, Srivastava, A., Ramesh, R., Sukumar, R. and Elanithi, K. 2018. Fabrication and characterization of chicken feather keratin/polysaccharides blended polymer coated nonwoven dressing materials for wound healing applications. *Materials Science Engineering C*. **92**: 26–33. [**Impact Factor: 5.08**].
 23. Kavitha, S., Suganya, M., **Ponmurugan, P.**, De Castro, C.S., Davies, M.L., Mythili, G.M. and Pitchaimuthu, S. 2018. Green-synthesis-derived CdS Quantum dots using tea leaf extract: antimicrobial, bioimaging, and therapeutic applications in lung cancer cells. *American Chemical Society Applied Nano Materials*. **11**: 1683-1693.
 24. Bagyalakshmi, B., **Ponmurugan, P.** and Balamurugan, A., 2017. Potassium solubilization, plant growth promoting substances by potassium solubilizing bacteria from southern Indian tea soils. *Biocatalysis and Agricultural Biotechnology* **12**: 116–124. [**Impact Factor: 2.14**].
 25. Khader, S.Z.A, Sidhra, S.Z.A. Thangakumar, A. Nayaka, S. and **Ponmurugan P.** 2018. Radical scavenging potential, anti-inflammatory and anti-arthritis activity of isolated isomer Methyl- γ -Orsellinate and roccellatol from *Rocella montagnei*. *Bulletin of Faculty of Pharmacy* **56**: 39-45 [**Impact Factor: 2.08**].
 26. Gnanamangai, B.M., **Ponmurugan, P.**, Jeeva, S.E., Manjugarunambika, K., Elango, V., Hemalatha, K., Jyoti Prasad, K., Mohanraj, R. and Prathap, S. 2017. Biosynthesised silver and copper nanoformulation as foliar spray to control bird's eye spot disease in tea plantations. *IET Nanobiotechnology*, **11**: 917-928. [**Impact Factor: 1.463**].
 27. Robinson, J.P., Suriya, K., Subbaiya, R. and **Ponmurugan, P.** 2017. Antioxidant and cytotoxic activity of *Tecoma stans* against lung cancer cell line (A549). *Brazilian Journal of Pharmaceutical Sciences* **53** (3): 01-05. [**Impact Factor: 0.53**].

28. Ayyappadasan, G., Madhupreetha, T., **Ponmurugan, P.** and Jeyaprakash, S. 2017. Antibacterial and antioxidant activity of *Parmotrema reticulatum* obtained from Eastern Ghats, Southern India. *Biomedical Research* **28** (4): 1593-1597. [**Impact Factor: 0.226**].
29. Khader, S.Z.A., Ahmed, S.S.Z., Balasubramanian, S.K., Arunachalam, T.K., Kannappan, G., **Ponmurugan, P.** and Ramesh, K. 2017. Modulatory effect of dianthrone, rich alcoholic flower extract of *Cassia auriculatoa* L. on experimental diabetes. *Integrative Medicine Research* **6**: 131-140. [**Impact factor: 1.25**].
30. Ayyappadasan, G., Amutha, M. Jeyaprakash, S., Kalaiselvi, M. and **Ponmurugan, P.** 2016. Antihyperglycemic and anti-oxidant activity of various fraction of *Parmotrema hababianum* in streptozotocin-induced diabetic rat. *Bangladesh Journal of Pharmacology* **11**: 935-939. [**Impact Factor: 0.671**].
31. **Ponmurugan, P.**, Manjugarunambika, K., Elango, V. and Gnanamangai, B.M. 2016. Antifungal activity of biosynthesised copper nanoparticles evaluated against red root-rot disease in tea plants. *Journal of Experimental Nanoscience* **11** (13): 1019-1031. [**Impact Factor: 0.43**].
32. **Ponmurugan, P.**, Manjugarunambika K. and Gnanamangai, B.M. 2016. Impact of various foliar diseases on the biochemical, volatile and quality constituents of green and black teas. *Australasian Plant Pathology* **45**: 175–185. [**Impact Factor: 0.943**].
33. **Ponmurugan, P.**, Ayyappadasan, G., Verma, R.S. and Nayaka, S. 2016. Survey, distribution pattern and elemental composition of lichens in Yercaud hills of Eastern Ghats in southern India. *Journal of Environmental Biology* **37**: 407-412. [**Impact Factor: 0.56**].