

## **List of the Book Chapters published for the last five year**

1. Johnson, Riya., & J. T. Puthur (2021). Cross adaptation tolerance of anti-oxidants in Cow pea seedlings to NaCl and PEG stress. *In: Lalima Singh, Anuradha Singh, Jyoti Baijal, Ravi Kant Singh, Subodhika Sharma (Eds.). Sustainability Challenges and Transforming Opportunity Amidst COVID 19*, AUTHORS PRESS, pp: 44-52. ISBN: 978-93-90588-93-0.
2. Sarath, N. G., Sruthi, P., Shackira, A. M., & J. T. Puthur (2021). Halophytes as effective tool for phytodesalination and land reclamation. *In: Tariq Aftab, Khalid Rehman Hakeem (Eds.). Frontiers in Plant Soil Interaction*, Elsevier, International Publishing, pp: 459-494. ISBN: 9780323909433, <https://doi.org/10.1016/B978-0-323-90943-3.00020-1>
3. Misbah Naz, Shackira A.M, Mohammad Sarraf, Sarath, N. G., Sarah Bouzroud, Chengatt Prakash Akshaya & Xiaoring Fan (2021). Iron Nanoparticles for nano-phytoremediation. *In: Nano-phytoremediation and environmental pollution: strategies and mechanisms*, Taylor and Francis group, LLC/ CRC Press. (Accepted and in press).
4. P. P., Sameena, N. G., Sarath, Louis Noble, M. S., Amritha, & J. T. Puthur (2021). Bioenergy Plants: A Sustainable Solution for Heavy Metal Phytoremediation. *In: Bioenergy Crops: A Sustainable Means of Phytoremediation* (accepted and in press). (Accepted and in press).
5. Mirshad P. P, Sarath, N. G., Shackira, A. M., & J. T. Puthur (2021). Bioremediation: Tools and techniques for waste water reclamation. *In: Innovative Bio-based technologies for Environmental remediation*. (Accepted and in press).
6. Janeeshma, E., Sameena P. P., Sarath, N. G., Veena Mathew & J. T. Puthur (2021). Impact of pesticide on the soil microbiology. *In: Pesticides in Natural Environment: Sources, Health Risks and Remediation*, Elsevier International Publishing. (Accepted and in press).
7. Sarath, N. G., Pravisya, P., Shackira A. M., J. T. Puthur (2021). Nanophytoremediation: a promising strategy for the management of environmental contaminants. *In: Innovative Bio-based Technologies for Environmental Remediation*. (Accepted and in press).
8. Janeeshma, E., & Puthur, J. T. (2021). Potential role of microbial endophytes in xenobiotic stress management. *In: Virendra Kumar Mishra, Ajay Kumar (Eds.). Sustainable Environmental Clean-up*, Elsevier, pp: 165-185. ISBN: 9780128238288, <https://doi.org/10.1016/B978-0-12-823828-8.00008-6>.

9. Shackira, A. M., Jazeel, K., & Puthur, J. T. (2021). Phycoremediation and phytoremediation: Promising tools of green remediation. *In: Virendra Kumar Mishra, Ajay Kumar (Eds.). Sustainable Environmental Clean-up*, Elsevier, pp: 273-293. ISBN: 9780128238288, <https://doi.org/10.1016/B978-0-12-823828-8.00013-X>
10. Akhila Sen & Puthur, J. T. (2020). Priming induced physiochemical and molecular events in plants coupled to abiotic stress tolerance in plants. *In: Mohammad Anwar Hossain, Fulai Liu, David Burritt, Masayuki Fujita, Bingru Huang (Eds.). Priming-Mediated Stress and Cross-Stress Tolerance in Crop Plants*, Academic press, Elsevier, USA, pp. 301-316. ISBN: 9780128178928.
11. Sarath, N. G., Sruthi, P., Shackira, A. M., & Puthur, J. T. (2020). Heavy Metal remediation in wetlands mangroves as potential candidates. *In: Grigore, Marius-Nicusor (Eds.). Handbook of Halophytes from Molecules to Ecosystems Towards Biosaline Agriculture*, Springer International Publishing, Springer Nature, Switzerland AG, pp: 2423-2450. ISBN: 978-3-030-57634-9.
12. Shackira, A.M. & Puthur, J. T. (2019). Phytostabilization of heavy metals: Understanding of principles and practices. *In: Srivastava, Sudhakar, Srivastava, Ashish K., Suprasanna, Penna (Eds.). Plant-Metal Interactions*, Springer, Nature, Switzerland AG, pp: 263-282. eBook, ISBN: 978-3-030-20732-8, DOI:10.1007/978-3-030-20732-8.
13. Muhammad Dilshad, P.P. and Harilal C.C. Change detection in land cover using Remote Sensing and GIS techniques – A case study of Ponnani Kole Wetland, Kerala. (2019). PONNANI KOLE WETLANDS - Problems and Prospects (ISBN: 978-81-935133-3-0), Published by Gregor Mendel Foundation, University of Calicut, pp. 07 – 15.
14. Ajayan, K.V., Harilal, C.C. and Archana, V. Microalgal diversity of Ponnani Kole Wetland of Kerala. (2019). PONNANI KOLE WETLANDS - Problems and Prospects (ISBN: 978-81-935133-3-0), Published by Gregor Mendel Foundation, University of Calicut, pp. 63 – 73.
15. Manimohan, P. (2019). *Auriculoscypha*: A Fascinating Instance of Fungus-Insect-Plant Interactions. *In: Sridhar, K.R. & Deshmukh, S.K. (Eds.) Advances in Macrofungi: Diversity, Ecology and Biotechnology*. CRC Press Taylor & Francis Group, Boca Raton, pp. 34–39.
16. Dhanya Thomas, T. T. & Puthur, J. T. (2018). Low NaCl Concentration enhances prime physiological features in *Oryza sativa* cv Jyothi. *In: Mohanan K.V., Radhakrishnan V.V., Suhara Beevy S., Yusuf A., Gangaprasad A. (Eds.). Modern Trends in Conservation*,

*Utilization and Improvement of Plant Genetic Resources*, Gregor Mendel Foundation, Calicut University, Kerala, India, Pp 99-109. ISBN: 978-81-935133-1-6.

17. Jisha, K. C., Shackira, A. M. & Puthur, J. T. (2018). GABA/BABA Priming Causes Signaling of Defense Pathways Related to Abiotic Stress Tolerance in Plants. *In: Ramakrishna, A. and Roshchina, V.V. (Eds.). Neurotransmitters in Plants Perspectives and Applications*, CRC Press, Taylor and Francis Group, Boca Raton. eBook ISBN 9781351360425, Pp 219-230.
18. Faseela, P., Sinisha, A. K., Dhanya Thomas, T. T., & Puthur, J. T. (2018). Oxidative Stress and Its Management in Plants During Abiotic Stress. *In: Ramakrishna, A. and Gill, S.S. (Eds.). Metabolic Adaptations in Plants During Abiotic Stress*, CRC Press, Taylor and Francis Group, Boca Raton, pp: 111-125. ISBN: 9781138056381,
19. Jishinprakash, T.S. & Yusuf, A. (2018). *Recent advances in rice biotechnology*. *In: Radhakrishnan, V.V., Hrideek, T.K., Raghu, A.V. & Chandramohan, K.T. (Eds.) Crops of Kerala an Overview*, Gregor Mendel Foundation, India, pp. 26-37.
20. Surekha Y. Pawar (2018). Biology and cultivation of rice, *Crops of Kerala- An overview*, Gregor Mendel Foundation, pp 2-11.
21. Neethu G. Pillai and Harilal C C. (2017). Inquisition on the tolerance limit of *Excoecaria agallocha* L. to certain hydrogeochemical parameters in pursuit of their introduction in heterogeneous coastal environments. *Mainstreaming biodiversity for sustainable development (Kerala Biodiversity Board)* Publisher: Kerala State Biodiversity Board (ISBN: 978-81-934231-1-0).
22. Karthika S. Menon and Harilal C C. (2017). Growth maximization studies of *Chlamydomonas eudorinae* in Bolds Basal medium under varying levels of pH. *Mainstreaming biodiversity for sustainable development (Kerala Biodiversity Board)* Publisher: Kerala State Biodiversity Board (ISBN: 978-81-934231-1-0).
23. Soorya, V. Radhakrishnan V.V. and Mohanan. K.V (2017). *Travancore starch plant, Horticultural crops of high nutritive values*, Brillion Publishing, pp 371-391.