Book and Book Chapters

Title of the Book:

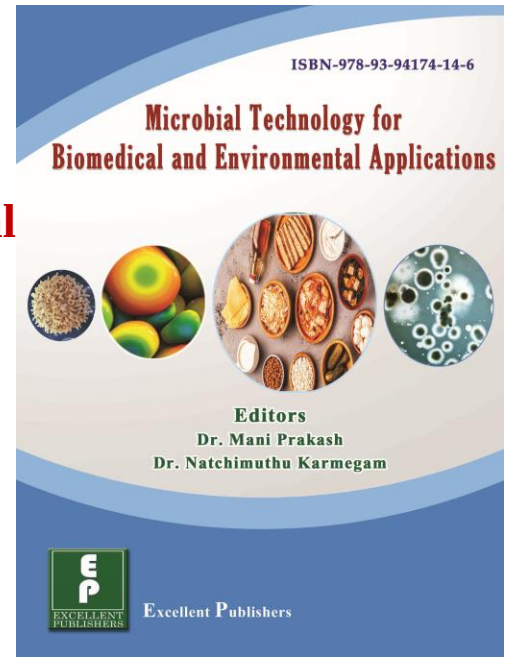
Microbial Technology for Biomedical and Environmental Applications

ISBN: 978-93-94174-14-6

Book code: EP-2023-6

Editors:

Dr. M. Prakash
Dr. N. Karmegam



SCOPE OF THE BOOK

Following key topics will be covered in the book, but not limited to:

1. Beneficial and economical uses of bacteria, yeasts, molds, and viruses.
2. Antibiotics and vaccine production, Pigments and flavorings,
3. Fermentation with various conditions, and substrates and probiotics.
4. Lignocellulosic decomposition.
5. Bioethanol production using microbes and microbial enzymes.
6. Production of organic acids and fuel chemicals
7. Biofuel, biogas and biodegradable products
8. Medical technological microbiology
9. Microbial metabolites and biopolymers
10. Microbial remediation of pollutants,
11. Pollution mitigation through microbial agents,
12. Microbes in waste valorization and
13. Any other topics related to microbial technology.

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Examples

For Journals

Manikandan, S., Karmegam, N., Subbaiya, R., Karthiga Devi, G., Arulvel, R., Ravindran, B., Awasthi, M. K., 2021. Emerging nano-structured innovative materials as adsorbents in wastewater treatment. Bioresour. Technol., 320: 124394.

Prakash, M., Karmegam, N., 2010a. Vermistabilization of pressmud using *Perionyx ceylanensis* Mich. Bioresour. Technol., 101: 8464–8468.

Prakash, M., Karmegam, N., 2010b. Dynamics of nutrients and microflora during vermicomposting of mango leaf litter (*Mangifera indica*) using *Perionyx ceylanensis*. Int. J. Glob. Environ. Issues, 10: 339–353.

For Books/Book Chapters

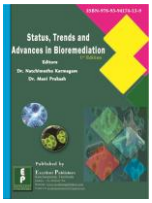
Edwards, C.A., Arancon, N.Q., 2004. The use of earthworms in the breakdown of organic wastes to produce vermicomposts and animal feed protein. In: Earthworm Ecology, 2nd Edn. (Ed.: Edwards, C.A.), CRC Press, Boca Raton, pp.345–438.

Cowan, M.M., 2014. Microbiology: A Systems Approach. 4th Edn. McGraw-Hill, p.896.

Darwin, C. R., 1881. The Formation of Vegetable Mould through the Action of Worms with Some Observations on Their Habits. John Murray, London.

Jain, S.K., 2004. Manual of Ethnobotany. Scientific Publishers, Jodhpur, India. p.193.

Published Book Chapter(s)



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