

# Biodiversity and Conservation

## Characterization and Utilization of Plants, Microbes, and Natural Resources for Sustainable Development and Ecosystem Management

This volume provides an enlightening and pragmatic approach to preserving biological diversity by gathering a wide range of peer-reviewed scientific content from biodiversity researchers and conservators from around the world. It presents an overview of the present status of conservation of biological diversity, including floral, faunal, and microbial diversity. A detailed account of recent trends in conservation and applications under changing climate conditions, focusing mainly on agriculturally and industrially important microbes and their sustainable utilization, is presented as well.

### Key features:

- Presents concepts and values of biodiversity for economic and sustainable development
- Discusses biodiversity and applications of agriculturally and industrially important microbes
- Looks at the process of evolution and the future of biodiversity
- Explores strategies and approaches for nature conservation and public awareness toward ecological services and cultural significance
- Facilitates an understanding of plant diversity in rural home gardens

### ABOUT THE EDITORS

**Jeyabalan Sangeetha, PhD**, is Assistant Professor at Central University of Kerala at Kasaragod, South India. Her research interests are in environmental toxicology, environmental microbiology, and environmental biotechnology, and her scientific/community leadership has included serving as editor of an international journal, *Acta Biologica Indica*.

**Devarajan Thangadurai, PhD**, is Senior Assistant Professor at Karnatak University in South India, President of the International Society for Applied Biotechnology, and General Secretary for the Association for the Advancement of Biodiversity Science. In addition, Dr. Thangadurai is Editor-in-Chief of two international journals, *Biotechnology*, *Bioinformatics and Bioengineering* and *Acta Biologica Indica*. He has authored and edited over 20 books with international publishers.

**Hong Ching Goh, PhD**, is a Senior Lecturer in the Department of Urban and Regional Planning, Faculty of Built Environment, Universiti Malaya, Malaysia. She was a fellow of the ASEAN Science Leadership Program 2016 and has been a member of the Global Young Academy since 2015 of which her membership serves a five-year term. She is also a corporate member of the Malaysian Institute of Planners.

**Saher Islam, MPhil**, is a PhD candidate in Molecular Biology and Biotechnology and a Higher Education Commission (HEC) Scholar of the Islamic Republic of Pakistan at the University of Veterinary and Animal Sciences (UVAS), Lahore, where she received her MPhil in Molecular Biology and her BS in Biotechnology and Bioinformatics. She worked as a Research Associate in a project funded by Grand Challenges Canada at UVAS.



www.appleacademicpress.com

ISBN: 978-1-77188-748-9



9 781771 887489



9 0000