1. Record Nr. UNINA9910845487503321

Titolo	Microbiology-2.0 Update for a Sustainable Future / / edited by Juhi Gupta, Akarsh Verma
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9996-17-1
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (493 pages)
Disciplina	579.092
Soggetti	Biomedical engineering Microbiology Microbiology - Technique Biotechnology Biomedical Engineering and Bioengineering Microbiology Techniques Chemical Bioengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Introduction to Microbiology and its upcoming applications -- 2. Terrestrial Microbiology -- 3. Aquatic Microbiology -- 4. Glacial Microbiology -- 5. Microbiology for Bioremediation of contaminants -- 6. Microbiology for product Biovalorization -- 7. Microbiology for Bioaugmentation -- 8. Microbiology for Energy generation -- 9. Diagnostic Microbiology -- 10. Next generation Sequencing and Microbiology -- 11. Digital and Technological Microbiology -- 12. Atomistic scale simulations for Microbiology -- 13. Microbiology: Cradle to grave.
Sommario/riassunto	This book demonstrates the extremely fascinating and interdisciplinary microbial domain. It helps in discovering the latest advances in microbiology and learns how they can help shape a more sustainable future for our planet. This comprehensive guide covers the latest breakthroughs in microbiology research and their practical applications in fields such as ecology, agriculture, biotechnology, and environmental science. Furthermore, the readers explore the cutting-edge technologies and methodologies that are driving the next generation of

microbiology research. With expert insights from the leading microbiologists, this book is an essential resource for anyone interested in understanding the role of microbes in our world and harnessing their power for a better tomorrow. .