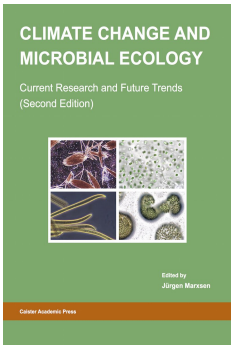
Climate Change and Microbial Ecology

Current Research and Future Trends (Second Edition)



Edited by: **Jürgen Marxsen**
Justus Liebig University, Giessen, Germany

Published: October 2020. **Pages:** xiv +548
ISBN: Book: 978-1-913652-57-9. Ebook: 978-1-913652-58-6
Price: £199, $250
Published by: Caister Academic Press www.caister.com

The distribution and function of microorganisms are of crucial importance for the Earth's biogeochemical cycles. Effects of microbial communities on the carbon and nitrogen cycles are particularly important for climate gases. These biogeochemical cycles are significantly impacted by global climate change and microbes may respond by accelerating or alleviating human-caused change. Understanding microbial ecology in the different ecosystems is essential for our ability to assess the importance of biogeochemical cycles-climate feedbacks.

In the first edition of this acclaimed book, a broad range of renowned scientists reviewed the most important hot-topics in the area of climate change and microbial ecology, thus providing a timely and authoritative overview of this increasingly important area. Climate change is continuing unabated and this new, expanded edition contains revised and updated chapters and the addition of four new chapters covering more of the topical fields in this important area of climate science.

This is an essential book for every microbial ecologist from the PhD student to the experienced scientist and is also recommended for everyone interested in the field of global climate change.

Order from:

Caister Academic Press https://www.caister.com/order

CURRENT BOOKS OF INTEREST www.caister.com

☞ **Lyme Disease and Relapsing Fever Spirochetes: Genomics, Molecular Biology, Host Interactions and Disease Pathogenesis**
Edited by: Justin D. Radolf and D. Scott Samuels (Published: 2021)

☞ **Veterinary Vaccines: Current Innovations and Future Trends**
Edited by: Laurel J. Gershwin and Amelia R. Woolums (Published: 2020)

☞ **Climate Change and Microbial Ecology: Current Research and Future Trends (Second Edition)**
Edited by: Jürgen Marxsen (Published: 2020)

☞ **Alphaherpesviruses: Molecular Biology, Host Interactions and Control**
Edited by: Ekaterina E. Heldwein and Gregory A. Smith (Published: 2020)

☞ **Legionellosis Diagnosis and Control in the Genomic Era**
Edited by: Jacob Moran-Gilad and Rachel E. Gibbs (Published: 2020)

☞ **Bacterial Viruses: Exploitation for Biocontrol and Therapeutics**
Edited by: Aidan Coffey and Colin Buttimer (Published: 2020)

☞ **Microbial Biofilms: Current Research and Practical Implications**
Edited by: Arindam Mitra (Published: 2020)
"for graduate students and researchers" (Ringgold)

☞ **Astrobiology: Current, Evolving and Emerging Perspectives**
Edited by: André Antunes (Published: 2020)
an up-to-date insight into current topics and research work ... a very good introduction to interested readers (BioSpektrum); "recent theoretical and experimental results" (Ringgold)

☞ ***Chlamydia* Biology: From Genome to Disease**
Edited by: Ming Tan, Johannes H. Hegemann and Christine Sütterlin (Published: 2020)
"The book as a whole is recommended to research students, doctoral students and scientists" (Biospektrum); "a current and comprehensive summary of Chlamydia research" (Doodys); "a broad reference on the bacterial pathogen Chlamydia and the human and animal disease it causes" (Ringgold)

☞ **Microbial Exopolysaccharides: Current Research and Developments**
Edited by: Özlem Ates Duru (Published: 2019)
"of immense value for PhD students, postdoctorate students, microbiologists, and experienced scientists" (Doodys)

☞ **Polymerase Chain Reaction: Theory and Technology**
Author: Mark A. Behlke, Kornelia Berghof-Jäger, Tom Brown, et al. (Published: 2019)

☞ **Pathogenic Streptococci: From Genomics to Systems Biology and Control**
Edited by: Yuqing Li and Xuedong Zhou (Published: 2019)

☞ **Bats and Viruses: Current Research and Future Trends**
Edited by: Eugenia Corrales-Aguilar and Martin Schwemmle (Published: 2020)
"highly recommended" (Southeastern Naturalist)

☞ **SUMOylation and Ubiquitination: Current and Emerging Concepts**
Edited by: Van G. Wilson (Published: 2019)
"a comprehensive, in-depth resource ... intensive and technically detailed descriptions of the latest advances ... densely packed with information ... a valuable reference for any laboratory group working in this field" (Doodys)

☞ **Avian Virology: Current Research and Future Trends**
Edited by: Siba K. Samal (Published: 2019)
"a nice introduction to avian virology" (Doodys); "this book is a must-have for anyone whose daily activities require detailed knowledge of the biology, pathogenesis, immune response, prevention, and control of avian viruses" (JAVMA)

☞ **Insect Molecular Virology: Advances and Emerging Trends**
Edited by: Bryony C. Bonning (Published: 2019)
"essential reading for students and scholars of insect virology" (Biotechnol. Agron. Soc. Environ.)

☞ **The Prion Protein**
Edited by: Jörg Tatzelt (Published: 2010)

☞ **Plant Genomics**
Edited by: Hany A. El-Shemy (Published: 2009)