Probiotics and Prebiotics: Where Are We Going?

Edited by: Gerald W. Tannock,
University of Otago, Dunedin, New Zealand

Published: June 2002. Pages: viii + 333
Published by: Caister Academic Press www.caister.com

This new volume follows from and complements the bestselling book *Probiotics: A Critical Review* (also edited by G. W. Tannock). The new book expands and enlarges on all aspects of this highly topical subject. Leading international experts describe in detail current research and applications and in particular focus on novel issues and developing technology, and comment on the future potential of this important and exciting topic.

*Probiotics and Prebiotics: Where Are We Going?* contains state-of-the-art commentaries on all aspects of the intestinal microflora and probiotics and provides an authoritative review of important aspects of probiotic and prebiotic research. Written by leading experts in the field, each chapter affords a critical insight to a particular topic, reviews current research, discusses future direction and aims to stimulate discussion. Topics covered include the genomics of probiotic microorganisms, the developing technologies for analysis of gut microorganisms, evaluation and future potential of prebiotic substances, and the potential for disease prevention in the host by probiotic organisms.

An essential text for all microbiologists, health professionals, biotechnologists, pharmaceutical companies, dairy and food scientists.

Chapter 1. Probiotics and prebiotics: where are we going?. Gerald W. Tannock
Chapter 2. Fluorescence in situ hybridisation as a tool in intestinal bacteriology. Hermie J. M. Harmsen and Gjalt W. Welling
Chapter 3. From composition to functionality of the intestinal microflora. Sergey R. Konstantinov, Nora Fitzsimon, Elaine E. Vaughan, and Antoon D. L. Akkermans
Chapter 4. Genus- and species-specific PCR primers for the detection and identification of bifidobacteria. Takahiro Matsuki, Koichi Watanabe, and Ryuichiro Tanaka
Chapter 6. Prebiotics and calcium bioavailability. Kevin Cashman
Chapter 7. The possible role of probiotic therapy in inflammatory bowel disease. Michael Schultz and Heiko C. Rath
Chapter 8. Gut microflora and atopic disease. Clare S. Murray and Ashley Woodcock
Chapter 9. Genomic perspectives on probiotics and the gastrointestinal microflora. Olivia E. McAuliffe and Todd R. Klaenhammer
Chapter 10. Intestinal microflora and homeostasis of the mucosal immune response: implications for probiotics?. Stephanie Blum-Sperisen and Eduardo J. Schiffrin

Order from:
MALDI-TOF Mass Spectrometry in Microbiology
Edited by: Markus Kostrzewa and Sören Schubert (Published: 2016)

Aspergillus and Penicillium in the Post-genomic Era
Edited by: Ronald P. de Vries, Isabelle Benoit Gelber and Mikael Rødam Andersen (Published: 2016)

The Bacteriocins: Current Knowledge and Future Prospects
Edited by: Robert L. Dorit, Sandra M. Roy and Margaret A. Riley (Published: 2016)

Omics in Plant Disease Resistance
Edited by: Vijai Bhadauria (Published: 2016)

Acidophiles: Life in Extremely Acidic Environments
Edited by: Raquel Quatrini and D. Barrie Johnson (Published: 2016)

Climate Change and Microbial Ecology: Current Research and Future Trends
Edited by: Jürgen Marxsen (Published: 2016)

Biofilms in Bioremediation: Current Research and Emerging Technologies
Edited by: Gavin Lear (Published: 2016)

Microalgae: Current Research and Applications
Edited by: Maria-Nefeli Tsaloglou (Published: 2016)

Gas Plasma Sterilization in Microbiology: Theory, Applications, Pitfalls and New Perspectives
Edited by: Hideharu Shintani and Akikazu Sakudo (Published: 2016)

Virus Evolution: Current Research and Future Directions
Edited by: Scott C. Weaver, Mark Denison, Marilyn Roossinck and Marco Vignuzzi (Published: 2016)

Arboviruses: Molecular Biology, Evolution and Control
Edited by: Nikos Vasilakis and Duane J. Gubler (Published: 2016)

Shigella: Molecular and Cellular Biology
Edited by: William D. Picking and Wendy L. Picking (Published: 2016)

Aquatic Biofilms: Ecology, Water Quality and Wastewater Treatment
Edited by: Anna M. Romani, Helena Guasch and M. Dolors Balaguer (Published: 2016)

Alphaviruses: Current Biology
Edited by: Suresh Mahalingam, Lara Herrero and Belinda Herring (Published: 2016)

Thermophilic Microorganisms
Edited by: Fu-Li Li (Published: 2015)

Flow Cytometry in Microbiology: Technology and Applications
Edited by: Martin G. Wilkinson (Published: 2015)
“an impressive group of experts” (ProtoView)

Probiotics and Prebiotics: Current Research and Future Trends
Edited by: Koen Venema and Ana Paula do Carmo (Published: 2015)

Epigenetics: Current Research and Emerging Trends
Edited by: Brian P. Chadwick (Published: 2015)
“this is one text you don’t want to miss” (Epigenie); “up-to-date information” (ChemMedChem)

Corynebacterium glutamicum: From Systems Biology to Biotechnological Applications
Edited by: Andreas Burkovski (Published: 2015)
“Without question a valuable book” (BIOSpektrum)

Advanced Vaccine Research Methods for the Decade of Vaccines
Edited by: Fabio Bagnoli and Rino Rappuoli (Published: 2015)

Full details at www.caister.com
Prebiotics and probiotics both support the body in building and maintaining a healthy colony of bacteria and other microorganisms, which supports the gut and aids digestion. These food components help promote beneficial bacteria by providing food and creating an environment where microorganisms can flourish. Prebiotics are present in fiber-rich foods, such as fruits, vegetables, and whole grains. Probiotics occur in many fermented foods, including yogurt, sauerkraut, and tempeh. Benefits and side effects of probiotics.