

Probiotics and Prebiotics

Current Research and Future Trends

Edited by: Koen Venema and Ana Paula do Carmo

Beneficial Microbes Consultancy, 6709 TN Wageningen NL, The Netherlands and Instituto Federal do Espírito Santo, Soteco, Vila Velha ES, Brazil (respectively)

c. 560 pp

Hardback: August 2015. ISBN 978-1-910190-09-8 £180, \$360

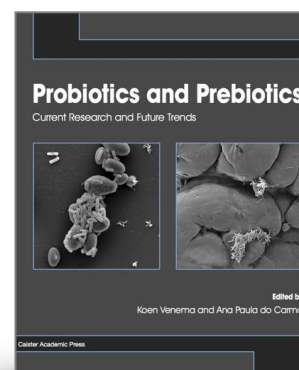
Ebook: June 2015. ISBN 978-1-910190-10-4 £180, \$360

With state-of-the-art commentaries on all aspects of probiotics and prebiotics research, this book provides an authoritative and timely overview of the field. Written by leading international researchers, each chapter affords a critical insight to a particular topic, reviews current research, discusses future direction and aims to stimulate discussion. Topics range from the different microorganisms used as probiotics (lactobacilli, bifidobacteria, yeast, etc) and techniques and approaches used (metagenomics, etc) to the reviews of the clinical and medical aspects. The provision of extensive reference sections positively encourages readers to pursue each subject in greater detail. Containing 33 chapters, the book is an invaluable source of information and essential reading for everyone working with probiotics, prebiotics and the gut microbiota.

Topics

• Ch. 1: Probiotics and Prebiotics: Current Status and Future Trends • Ch. 2: Functional Aspects of Prebiotics and the Impact on Human Health • Ch. 3: Lactobacilli as Probiotics: Discovering New Functional Aspects and Target Sites • Ch. 4: Bifidobacteria: Regulators of Intestinal Homeostasis • Ch. 5: Propionibacteria also have Probiotic Potential • Ch. 6: Non-LAB Probiotics: Spore Formers • Ch. 7: Mechanisms of Action of Probiotic Yeasts • Ch. 8: Yeasts as Probiotics: Established in Animals, but What About Man? • Ch. 9: Escherichia coli: More Than A Pathogen? • Ch. 10: The Paradoxical Role of Enterococcus Species in Foods • Ch. 11: Use of reLABs: Good Bugs to Deliver Molecules of Health Interest. From Mouse To Man • Ch. 12: The Indigenous Microbiota and its Potential to Exhibit Probiotic Properties • Ch. 13: Improving the Digestive Tract Robustness of Probiotic Lactobacilli • Ch. 14: Biology of Reactive Oxygen Species, Oxidative Stress, and Antioxidants in Lactic Acid Bacteria • Ch. 15: Functional Aspects of the Endogenous Microbiota that Benefit the Host • Ch. 16: Studying the Microbiota and Microbial Ecology of the Gastrointestinal Tract in the Omics Era: Tools for Stools • Ch. 17:

Metagenomics of the Gut Microbiota as a Tool for Discovery of New Probiotics and Prebiotics • Ch. 18: Emerging Applications of Established Prebiotics: Promises Galore • Ch. 19: Prebiotics: Technological Aspects and Human Health • Ch. 20: New and Tailored Prebiotics: Established Applications • Ch. 21: Immunomodulating Effects of Prebiotics and Fibres • Ch. 22: Prebiotics Beyond Fibres • Ch. 23: Synbiotics: More Than Just the Sum of Pro- and Prebiotics? • Ch. 24: Pro- and Prebiotics: The Role of Gut Microbiota in Obesity • Ch. 25: The Role of the Gut Microbiota in Brain Function • Ch. 26: Infant Development, Currently the Main Applications of Probiotics And Prebiotics? • Ch. 27: Pro- and Prebiotics in Management of Patients with Irritable Bowel Syndrome • Ch. 28: Pro- and Prebiotics for Oral Health • Ch. 29: Cholesterol-lowering Effects of Probiotics and Prebiotics • Ch. 30: Perspectives on Differences Between Human and Livestock Animal Research in Probiotics and Prebiotics • Ch. 31: The Use of Probiotics to Enhance Animal Performance • Ch. 32: Pharmaceutical Aspects of Probiotics and Prebiotics • Ch. 33: Is The Sky The Limit? • Appendix I: Web Resources.



Advanced Vaccine Research Methods for the Decade of Vaccines

Edited by: F Bagnoli, R Rappuoli

xiv + 456 pp, April 2015

Hardback: ISBN 978-1-910190-03-6 £180, \$360

Ebook: ISBN 978-1-910190-04-3 £180, \$360

Topics: • Deep Sequencing in Vaccine Research, Development and Post-marketing Surveillance • New Bioinformatics Algorithms Applied to Deep Sequencing Projects • Comparative Genomics Approaches for Tracking the Emergence and Spread of Disease-associated Bacteria • Quantitative Proteomics in Vaccine Research • Structural Biology in Vaccine Research • Cellular Screens to Interrogate the Human T and B Cell Repertoires and Design Better Vaccines • Novel Strategies of Vaccine Administration: The Science Behind Epidermal and Dermal Immunization • TLRs as Targets to Develop Novel Adjuvants • The Importance of Cell Mediated Immunity for Bacterial Vaccines • T Cell Inducing Vaccines • Exploiting the Mutanome for Personalized Cancer Immunotherapy • Malaria Vaccine Development: Progress to Date • Tuberculosis • HIV-1 Vaccine Development • Cancer Immunotherapy: The Road to Rejection • The Challenge of Developing Global Health Vaccines Against the Invasive Salmonellosis: Enteric Fever and Invasive Nontyphoidal Salmonella Disease • The Path to an RSV Vaccine • *Staphylococcus aureus*



Epigenetics

Current Research and Emerging Trends

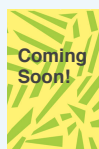
Edited by: BP Chadwick

xii + 354 pp, June 2015

Hardback: ISBN 978-1-910190-07-4 £159, \$319

Ebook: ISBN 978-1-910190-08-1 £159, \$319

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Flow Cytometry in Microbiology

Technology and Applications

Edited by: MG Wilkinson

c. 230 pp, June 2015

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xii + 248 pp, May 2014

Hardback: ISBN 978-1-908230-41-6 £159/\$319

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I would highly recommend this book (Doodys)

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Ebook: ISBN 978-1-908230-95-9 £120/\$240

"written in an accessible style" (Zentralblatt Math); "recommend this book to all investigators" (ChemMedChem)

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Ebook: ISBN 978-1-908230-69-0 £159/\$319

"A must for scientists in oil field companies" (Fungal Diversity)

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Phage Therapy

Current Research and Applications

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xvi + 378 pp, April 2014

Hardback: ISBN 978-1-908230-40-9 £180, \$360

Ebook: ISBN 978-1-908230-74-4 £180, \$360

"comprehensive overview" (BioSpektrum); "a useful resource" (Book News)

Antibiotics

Current Innovations and Future Trends

Edited by: S Sánchez, AL Demain

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"a useful resource" (Book News)

Lactic Acid Bacteria and Bifidobacteria: Current Progress in Advanced Research

Edited by: Kenji Sonomoto and Atsushi Yokota

x + 286 pp

Hardback: July 2011. ISBN 978-1-904455-82-0 £159, \$319

"written very clearly" (ASM Microbe)

Bifidobacteria: Genomics and Molecular Aspects

Edited by: Baltasar Mayo and Douwe van Sinderen

xii + 260 (plus colour plates) pp

Hardback: August 2010. ISBN 978-1-904455-68-4 £159, \$319

"essential reading for every bifidobacteria researcher" (Beneficial Microbes); "well-written, informative and uses high-quality graphics" (Microbiology Today)