Other books of interest

www.caister.com

Two-Component Systems in Bacteria

Edited by: R Gross, D Beier
c. 410 pp, August 2012
ISBN: 978-1-908230-08-9, $360/£180
Latest research on structure-function analysis, sensing mechanisms, atypical two-component systems, stress responses, developmental processes, virulence and symbiosis.

Foodborne & Waterborne Bacterial Pathogens

Epidemiology, Evolution and Molecular Biology
Edited by: SM Faruque
c. 330 pp, July 2012
ISBN: 978-1-908230-06-5, $319/£159
Review topics such as pathogenic properties, population genetics, virulence genes, evolution, drug resistance, epidemiology, detection, identification and control strategies.

Yersinia

Systems Biology and Control
Edited by: E Carniel, BJ Hinnebusch
c. 240 pp, July 2012
ISBN: 978-1-908230-05-8, $319/£159
Leading *Yersinia* researchers review the hot topics in the systems biology and control of these important bacteria.

Stress Response in Microbiology

Edited by: JM Requena
c. 500 pp, June 2012
ISBN: 978-1-908230-04-1, $360/£180
Expert authors from around the world summarise the current knowledge on microbial stress response and comprehensively review the recent findings that have greatly advanced the understanding of stress response systems.

Bacterial Regulatory Networks

Edited by: AAM Filloux
c. 400 pp, June 2012
ISBN: 978-1-908230-03-4, $360/£180
Authoritative, up-to-date reviews of the current research and theories on regulatory networks in bacteria. Critical reviews written by the leading research scientists in the field.

Systems Microbiology

Current Topics and Applications
Edited by: BD Robertson, BW Wren
c. 200 pp, June 2012
ISBN: 978-1-908230-02-7, $319/£159
Cutting-edge reviews by world-leading experts on the systems biology of microorganisms. Includes theoretical approaches, mathematical modelling, case studies on microbial species and the systems analysis of microbial phenomena.

Quantitative Real-time PCR in Applied Microbiology

Edited by: M Filion
c. 280 pp, May 2012
ISBN: 978-1-908230-01-0, $319/£159
Aimed specifically at microbiologists, this volume describes and explains the most important aspects of current real-time quantitative PCR (qPCR) strategies, instrumentation and software.

Bacterial Spores

Current Research and Applications
Edited by: E Abel-Santos
c. 300 pp, April 2012
ISBN: 978-1-908230-00-3, $319/£159
Comprehensive, up-to-date reviews on the current state of our knowledge of bacterial endospores. Essential text for everyone involved in spore research, the expression of recombinant proteins and pathogen detection.

Small DNA Tumour Viruses

Edited by: K Gaston
x + 324 pp, March 2012
ISBN: 978-1-904455-99-8, $319/£159
Leading scientists from around the world review current hot-topics on small DNA tumour virus research providing a fascinating overview of their molecular biology and interactions with the host.

Extremophiles

Microbiology and Biotechnology
Edited by: RP Anitori
xiv + 300 (colour figures) pp, January 2012
ISBN: 978-1-904455-98-1, $319/£159
Current and topical areas of extremophile research. The latest insights into the mechanisms these fascinating organisms use to survive and the most recent and novel biotechnological uses of extremophiles.

Bacillus

Cellular and Molecular Biology (2e)
Edited by: P Graumann
xii + 398 pp, February 2012
ISBN: 978-1-904455-97-4, $360/£180
A valuable reference work providing a comprehensive and up-to-date analysis. Critical reviews on the most recent and topical research.

Microbial Biofilms

Current Research and Applications
Edited by: G Lear, GD Lewis
x + 228 pp, February 2012
ISBN: 978-1-904455-96-7, $319/£159
An up-to-date review of the latest scientific research on microbial communities and a discussion of future trends and growth areas in biofilm-related research.

Bacterial Glycomics

Current Research, Technology and Applications
Edited by: CW Reid, SM Twine, AN Reid
x + 270 pp, February 2012
ISBN: 978-1-904455-95-0, $319/£159
Up-to-date overview of our current understanding of bacterial glycomes, the main analytical methods and recent and novel applications.

Non-coding RNAs and Epigenetic Regulation of Gene Expression

Drivers of Natural Selection
Edited by: KV Morris
x + 216 pp, February 2012
ISBN: 978-1-904455-94-3, $319/£159
An important and up-to-date overview of the modulation of gene transcription by non-coding RNAs. An essential reference book and a major information resource for those working in the area.

Brucella

Molecular Microbiology and Genomics
Edited by: I López-Goñi, D O'Callaghan
x + 262 pp, February 2012
ISBN: 978-1-904455-93-6, $319/£159
Highly acclaimed *Brucella* scientists comprehensively review the most important advances in the field. Topics include: genetic diversity, proteomic analysis, transcriptomic analysis, and much more.

Molecular Virology and Control of Flaviviruses

Edited by: P-Y Shi
x + 358 pp, January 2012
ISBN: 978-1-904455-92-9, $360/£180
An up-to-date and cutting-edge anthology from the leading experts in the flavivirus field. Essential reading for flavivirus researchers at the graduate level and beyond.
"a valuable resource" (Doodys)

Bacterial Pathogenesis

Molecular and Cellular Mechanisms
Edited by: C Locht, M Simonet
x + 370 pp, January 2012
ISBN: 978-1-904455-91-2, $360/£180
Distinguished scientists comprehensively describe the most relevant and up-to-date information on pathogenic features across the bacterial world.
"useful to those in many areas of research" (Doodys)

FULL DETAILS OF ALL OUR BOOKS AT WWW.CAISTER.COM

Acanthamoeba

Biology and Pathogenesis

Author: **Naveed Khan**
c. 220 pp., February 2009
ISBN: 978-1-904455-43-1 $310 / £150

The first comprehensive review of *Acanthamoeba* research to be published. Everything that is known about *Acanthamoeba* is critically reviewed and divided into easy-to-follow sections. The definitive guide to current research on this increasingly important organism.

Bacterial Secreted Proteins

Secretory Mechanisms and Role in Pathogenesis

Edited by: **Karl Wooldridge**
c. 550 pp., April 2009
ISBN: 978-1-904455-42-4 $310 / £150

Extensive publication on bacterial secreted proteins, secretory systems and their vital role in bacterial pathogenesis. Immense value to all microbiologists, molecular biologists, public health scientists and other researchers and professionals.

Lactobacillus Molecular Biology

From Genomics to Probiotics

Edited by: **Åsa Ljungh and Torkel Wadström**
c. 220 pp., January 2009
ISBN 978-1-904455-41-7 $310 / £150

Includes phylogenetics, taxonomy, comparative genomics, functional genomics, intestinal microflora, surface proteins, stress responses, immune system, probiotics, anti-cancer potential, and much more. Essential reading for all scientists involved in lactic acid bacteria or probiotic research and a recommended book for all microbiology laboratories.

Mycobacterium

Genomics and Molecular Biology

Edited by: **Tanya Parish and Amanda Brown**
viii + 214 pp., January 2009
ISBN: 978-1-904455-40-0 $310 / £150

The focus is on the topical and most relevant aspects and the authors give readers an insight into the current understanding of the subject and the future direction of research.

Real-Time PCR

Current Technology and Applications

Edited by: **J Logan, K Edwards and N Saunders**
x + 284 pp., January 2009
ISBN: 978-1-904455-39-4 $310 / £150

Essential manual providing a comprehensive guide to the most up-to-date technologies and applications as well as providing an overview of the theory of this increasingly important technique.

Clostridia

Molecular Biology in the Post-genomic Era

Edited by: **H Brüggemann and G Gottschalk**
x + 230 pp., January 2009
ISBN: 978-1-904455-38-7 $310 / £150

Critically reviews the most important aspects of clostridial research, providing the first coherent picture of the organism's molecular and cellular biology in this post-genomic era. A timely review of current research and essential reading for every clostridia researcher, from the PhD student to the experienced scientist.

Plant Pathogenic Bacteria

Genomics and Molecular Biology

Edited by: **Robert W. Jackson**
xii + 330 pp., January 2009
ISBN: 978-1-904455-37-0 $310 / £150

The most important developments in the field. An invaluable, up-to-date summary of the molecular biology and genomics of plant pathogenic bacteria. A timely review of the current and most topical areas of research.

Plasmids

Current Research and Future Trends

Edited by: **Georg Lipps**
viii + 264 pp., July 2008
ISBN 978-1-904455-35-6 $310 / £150

An up to date treatment of the structure, function and application of plasmids with a particular emphasis on current and future trends.

FULL DETAILS OF ALL OUR BOOKS AT

WWW.CAISTER.COM

Pasteurellaceae

Biology, Genomics & Molecular Aspects

Edited by: **P. Kuhnert and Henrik Christensen**
viii + 267 pp., August 2008
ISBN 978-1-904455-34-9 $310 / £150

Reviews the most important current research providing an up-to-date review of the molecular biology, genomics and virulence of these fascinating organisms.

Vibrio cholerae

Genomics and Molecular Biology

Edited by: **S.M. Faruque, and G. Balakrish Nair**
viii + 218 pp., July 2008
ISBN 978-1-904455-33-2 $310 / £150

Cutting-edge genetic facets of *V. cholerae* including genomic organization, population genetics, molecular epidemiology, regulation of gene expression, transmissibility, survival, and evolution.

Pathogenic Fungi

Insights in Molecular Biology

Edited by: **G. San-Blas and R.A. Calderone**
264 pp., July 2008
ISBN 978-1-904455-32-5 $310 / £150

Topics include: gene expression/regulation, heterozygosity, molecular diagnosis, host-fungal interaction, anti-fungals, signal transduction, and multi-drug resistance.

Helicobacter pylori

Molecular Genetics and Cellular Biology

Edited by: **Yoshio Yamaoka**
x + 262 pp., July 2008
ISBN 978-1-904455-31-8 $310 / £150

Distills the most important cutting-edge findings to produce a timely and comprehensive review of the field. A useful introduction to the subject for new researchers and an invaluable reference for the experienced microbiologist.

Other Books of Interest

- Corynebacteria: Genomics and Molecular Biology
- *Staphylococcus:* Molecular Genetics
- *Leishmania:* After The Genome
- Archaea: New Models for Prokaryotic Biology
- *Legionella*: Molecular Microbiology
- RNA and the Regulation of Gene Expression
- Molecular Oral Microbiology
- Epigenetics
- Animal Viruses: Molecular Biology
- Segmented Double-Stranded RNA Viruses
- *Acinetobacter* Molecular Biology
- *Pseudomonas*: Genomics and Molecular Biology
- Real-Time PCR in Microbiology: From Diagnosis to Characterisation
- Microbial Biodegradation: Genomics and Molecular Biology
- Coronaviruses: Molecular and Cellular Biology
- The Cyanobacteria: Molecular Biology, Genomics and Evolution
- Bacteriophage: Genetics and Molecular Biology
- *Candida*: Comparative and Functional Genomics

www.caister.com

For more details or to order any of these books visit our website
www.caister.com