

## Pili and Flagella

### Current Research and Future Trends

Edited by: Ken Jarrell

c. 250 pp., August 2009

ISBN: 978-1-904455-48-6 \$310 / £150

Current knowledge and latest research on prokaryotic pili and flagella. The emphasis is on the molecular biology, genetics, structure, assembly and function. Includes biogenesis, structure and function, gene expression, assembly, the flagella motor, posttranslational modifications, lateral flagella, the origin and evolution, applications of flagella, the flagella and pili of Archaea.

## Lab-on-a-Chip Technology

### Biomolecular Separation and Analysis

Edited by: K. E. Herold and A. Rasooly

c. 270 pp., August 2009

ISBN: 978-1-904455-47-9 \$310 / £150

A comprehensive volume focusing on the applications of LOC technology in the biomedical and life sciences. Includes biomolecule separation, electrophoresis, chromatography, protein and cell separation, genetic and transcriptome analysis, PCR, cell viability analysis and microorganism capturing. A volume of exceptional importance to current science.

## Lab-on-a-Chip Technology

### Fabrication and Microfluidics

Edited by: K. E. Herold and A. Rasooly

c. 350 pp., August 2009

ISBN: 978-1-904455-46-2 \$310 / £150

Presents the current technologies in the field and includes theoretical and technical information. The book aims to help the reader understand current LOC technologies, perform similar experiments, design new LOC systems and develop new methodologies and applications.

## Bacterial Polysaccharides

### Current Research and Future Trends

Edited by: Matthias Ullrich

c. 380 pp., June 2009

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Experienced and authoritative experts review the most important innovations and their biotechnological applications. The book takes an interdisciplinary view that examines the area from the perspective of molecular biology, genome, transcriptome and proteome, and looks at the ecological aspects and systems biology approaches.

## Microbial Toxins

### Current Research and Future Trends

Edited by: Thomas Proft

c. 220 pp., May 2009

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This timely volume by internationally respected scientists serves as an update on the most important recent advances. Topics include: toxins carried by mobile genetic elements, botulinum neurotoxins, anthrax, subtilase cytotoxin, *Pasteurella multocida* toxin, RTX toxins of vibrios, vacA toxin, staphylococcal immune evasion toxins and fungal ribotoxins. Essential reading for everyone with an interest in microbial toxins and recommended reading for other scientists with an interest in bioterrorism, microbial pathogenesis, and microbial genomics.

## Acanthamoeba Biology and Pathogenesis

Author: Naveed Khan

viii + 290 pp., February 2009

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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.

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Edited by: Robert W. Jackson

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