



## 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

This comprehensive volume presents the current technologies in the field and includes theoretical and technical information to enable both the understanding of the technology and the reproduction of experiments. The book aims to help the reader to understand current LOC technologies, to perform similar experiments, to design new LOC systems and to develop new methodologies and applications.

## 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.

## 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.

## Other Books of Interest

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- Plant Pathogenic Bacteria: Genomics and Molecular Biology
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- Archaea: New Models for Prokaryotic Biology
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- Animal Viruses: Molecular Biology
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[www.caister.com](http://www.caister.com)

## 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.

Reviews:

"... a comprehensive overview of the RT-PCR technology, which is as up-to-date as a book can be ..." *Mareike Viebahn in Current Issues in Molecular Biology (2009)*

## Real-Time PCR in Microbiology From Diagnosis to Characterization

Edited by: **Ian M. Mackay**  
x + 454 pp., Sept. 2007  
ISBN 978-1-904455-18-9 \$300 / £150

A background for the novice, a theoretical reference for the experienced user, and useful discussions of future developments. Includes: oligonucleotide design, target preparation, standardisation, quantification, various applications, and future challenges. The final chapter is a roundtable discussion providing an insightful, topical and interesting discourse with contributions from over 30 experts.

Reviews:

"I am impressed with the amount of valuable information in this book - information that is difficult to find in a single source. I have purchased three additional copies for each laboratory and teaching area. It is clear that I will use this book many times ..." *from Rebecca T. Horvat, University of Kansas Medical Center (from Doody.com)*

## RNA and the Regulation of Gene Expression

Edited by: **Kevin V. Morris**  
x + 228 pp., March 2008  
ISBN 978-1-904455-25-7 \$300 / £150

Expert reviews of RNA regulation of gene expression in yeast, Drosophila, mammals, and viral infection, highlighting the application of this knowledge in therapeutics and research.

Reviews:

"... a well-written, successful endeavour to present the field of eukaryal RNA-mediated regulation of gene expression.... suited for a broad range of readers, from advanced students to researchers in the field." *from ChemBioChem (2008) 9: 2005-2007*

## Epigenetics

Edited by: **Jorg Tost**  
xii + 404 pp., March 2008  
ISBN 978-1-904455-23-3 \$300 / £150

In this book the molecular mechanisms and biological processes in which epigenetic modifications play a primordial role are described in detail. Reviews the different mechanisms of the epigenetic machinery, the epigenetic systems of plants, the epigenetic profile of embryonic stem cells, cell differentiation, imprinting marks, developmental origins of disease, and much more.

Reviews:

"The text is clear and concise ... will assist researchers in the field and provides an important introductory reference for scientists that want to embark on such research." *from Microbiology Today (2008)*