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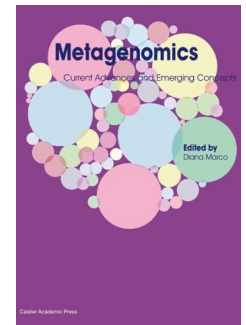
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"a comprehensive guide" (ProtoView)  
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## METAGENOMICS

### Current Advances and Emerging Concepts

Edited by: Diana Marco  
Published May 2017  
[www.caister.com/metagenomics2017](http://www.caister.com/metagenomics2017)  
vi + 146 pp. £99, \$149.  
Book: 978-1-910190-59-3  
Ebook: 978-1-910190-60-9



In this collection of reviews, **expert authors** describe the **cutting-edge** and emerging conceptual and methodological tools being employed to deal with current issues in metagenomics. Topics covered include the integration of ecology and metagenomics; the organization, classification, analysis and interpretation of the vast amount of data; the new statistical and **bioinformatic techniques**; sample extraction and processing techniques; and various applications of metagenomics in specific areas.

The volume is **essential reading** for researchers and students commencing projects in this field, for researchers active in metagenomics areas, and for educators interested in the latest developments. The volume is also of value to anyone involved in biotechnology, bioremediation, biodegradation and environmental microbiology.

- **Chapter 1:** Integration of Ecology and Environmental Metagenomics Conceptual and Methodological Frameworks .
- **Chapter 2:** Guidelines to Statistical Analysis of Microbial Composition Data Inferred from Metagenomic Sequencing.
- **Chapter 3:** Methods for The Metagenomic Data Visualization and Analysis.
- **Chapter 4:** Comparing Viral Metagenomic Extraction Methods .
- **Chapter 5:** Spatio-Temporal Variations in the Abundance and Structure of Denitrifier Communities in Sediments Differing in Nitrate Content.
- **Chapter 6:** Using Metagenomics to Connect Microbial Community Biodiversity and Functions.
- **Chapter 7:** Application of Omics Approaches to Studying Methyloprophs and Methyloproph Communities.

## Metagenomics

### Theory, Methods and Applications

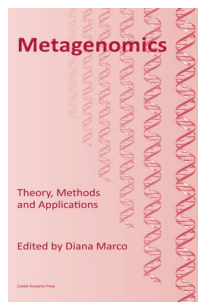
Edited by: D Marco

x + 212 pp, January 2010, £159, \$319

Book: 978-1-904455-54-7

*"an excellent resource" (Doodys); "recommended" (Arzneimittelforschung/ Drug Research); "highly recommended" (Microbiol. Today); "extremely well-written, easy to read, and highly informative" (Quart. Rev. Biol.); "highly recommended" (Biotechnol. J.)*

[www.caister.com/metagenomics](http://www.caister.com/metagenomics)



## Metagenomics

### Current Innovations & Future Trends

Edited by: D Marco

xii + 296 pp, September 2011, £159, \$319

Book: 978-1-904455-87-5

*"consistent coverage" (BookNews); "a valuable reference book" (Microbiol. Today); "state-of-the art information" (IMA Fungus); "an in-depth analysis" (Future Micro.)*

[www.caister.com/metagenomics-advances](http://www.caister.com/metagenomics-advances)



## Metagenomics of the Microbial Nitrogen Cycle

### Theory, Methods and Applications

Edited by: D Marco

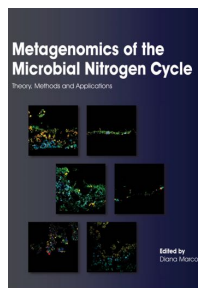
xiv + 268 pp, September 2014, £159, \$319

Book: 978-1-908230-48-5

Ebook: 978-1-908230-60-7

*"a strong overview" (Ringgold)*

[www.caister.com/n2](http://www.caister.com/n2)



## Brewing Microbiology

### Current Research, Omics and Microbial Ecology

Edited by: NA Bokulich, CW Bamforth

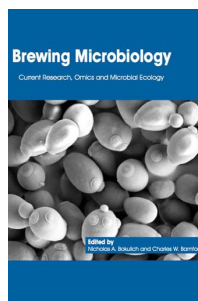
vi + 332 pp, June 2017, £159, \$319

Book: 978-1-910190-61-6

Ebook: 978-1-910190-62-3

*Recent discoveries in brewing microbiology with an emphasis on omics techniques and other modern technologies.*

[www.caister.com/brewing](http://www.caister.com/brewing)



## Aquatic Biofilms

### Ecology, Water Quality and Wastewater Treatment

Edited by: AM Romani, H Guasch, MD Balaguer

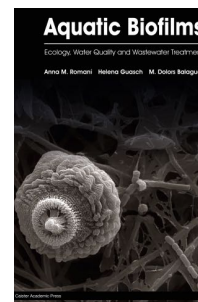
xii + 230 pp, January 2016, £159, \$319

Book: 978-1-910190-17-3

Ebook: 978-1-910190-18-0

*"essential reference book" (Biotechnol. Agron. Soc. Environ.); "unique environmental focus" (ASM: Small Things Considered)*

[www.caister.com/aquaticbiofilms](http://www.caister.com/aquaticbiofilms)



## MALDI-TOF Mass Spectrometry in Microbiology

Edited by: M Kostrzewa, S Schubert

x + 170 pp, June 2016, £159, \$319

Book: 978-1-910190-41-8

Ebook: 978-1-910190-42-5

*Overview of MALDI-TOF MS in key areas of microbiology and the impact of mass spectrometry in diagnostics, food microbiology, environmental microbiology and strain collections.*

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Edited by: J Długoński

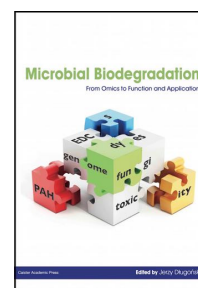
x + 238 pp, September 2016, £159, \$319

Book: 978-1-910190-45-6

Ebook: 978-1-910190-46-3

*"a valuable companion to both early and established researchers" (Micro. Today)*

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## Climate Change and Microbial Ecology

### Current Research and Future Trends

Edited by: J Marxsen

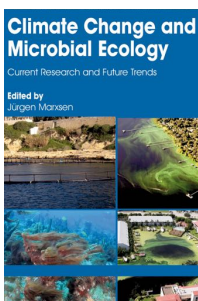
x + 204 pp, March 2016, £159, \$319

Book: 978-1-910190-31-9

Ebook: 978-1-910190-32-6

*"impressive" (ASM: Small Things Considered); "written at a high scientific level" (BioSpektrum)*

[www.caister.com/climate](http://www.caister.com/climate)



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Edited by: J Długoński (2016)

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Edited by: RL Dorit, SM Roy, MA Riley (2016)

"a comprehensive survey" (ASM: Small Things Considered); "an abundance of information" (BioSpektrum); "excellent book" (Micro. Today)

[www.caister.com/bacteriocins](http://www.caister.com/bacteriocins)

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Edited by: V Bhadauria (2016)

"essential reading ... highly recommended" (Biotechnol. Agron. Soc. Environ.); "a panorama of the application of omics approaches" (Q. Rev. Biol.)

[www.caister.com/opdr](http://www.caister.com/opdr)

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Edited by: R Quatrini, DB Johnson (2016)

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## Biofilms in Bioremediation:

Edited by: G Lear (2016)

"describes explicitly the role of biofilms in bioremediation" (Biospektrum); indispensable ... recommended (Biotechnol. Agron. Soc. Environ.); "A useful book" (Micro. Today)

[www.caister.com/biorem](http://www.caister.com/biorem)

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Edited by: MN Tsaloglou (2016)

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