

Print + eReference = The Best of Both Worlds

# Prebiotics and Probiotics Science and Technology

D. Charalampopoulos, R. A. Rastall (Eds.)

SPRINGER  
REFERENCE

- ▶ **THE** comprehensive source of information in the field
- ▶ Published as a fully searchable and hyperlinked eReference and in harcover
- ▶ Available separately or as a cost-saving bundle



**NEW**

**RECOMMEND**  
— *to your library*



SPRINGER  
REFERENCE

This Springer Reference is part of the eBook collection in Chemistry. Ask your librarian about Springer eBooks and get access to the eContent.

Recommend this essential reference work to your library! For more information visit [springer.com](http://springer.com)

# Prebiotics and Probiotics Science and Technology

D. Charalampopoulos, R. A. Rastall, University of Reading, UK (Eds.)

**Prebiotic and Probiotic Science and Technology** provides a comprehensive overview on the advances in the field. Designed as a Springer Reference - available in print and as a fully searchable and hyperlinked eReference - it presents the science underpinning the probiotic and prebiotic effects, the latest in vivo studies, the technological issues in the development and manufacture of these types

of products, and the regulatory issues involved. The content is clearly structured and covers all aspects of the topics in a logical manner, avoiding replication.

**Prebiotics and Probiotics Science and Technology** is a useful reference for both scientists and technologists working in academic and governmental institutes, and the industry.

## Table of Contents

- ▶ Using probiotics and prebiotics to manage the gastrointestinal tract ecosystem
- ▶ Molecular tools for investigating the gut microflora
- ▶ Post-genomics approaches towards monitoring changes within the microbial ecology of the gut
- ▶ Designing trials for testing the efficacy of pre- pro- and synbiotics
- ▶ Mechanisms of prebiotic impact on health
- ▶ Fructan prebiotics derived from inulin
- ▶ Galacto-oligosaccharide prebiotics
- ▶ Prebiotic potential of xylo-oligosaccharides
- ▶ Resistant starch and starch-derived oligosaccharides as prebiotics
- ▶ Oligosaccharides derived from sucrose
- ▶ Prebiotic potential of polydextrose
- ▶ Prebiotics in companion and livestock animal nutrition
- ▶ Analysis of prebiotic oligosaccharides
- ▶ Manufacture of prebiotics from biomass sources
- ▶ Taxonomy of probiotic microorganisms
- ▶ Ecological interactions of bacteria in the human gut
- ▶ Genomics of probiotic bacteria
- ▶ Manufacture of probiotic bacteria
- ▶ Some technological challenges in the addition of probiotic bacteria to foods
- ▶ Micro-encapsulation of probiotics
- ▶ Probiotics and antibiotic-associated diarrhea and clostridium difficile infection
- ▶ Probiotics for infectious diarrhea and traveler's diarrhea - What do we really know?
- ▶ Immunological effects of probiotics and their significance to human health
- ▶ Probiotics and chronic gastrointestinal disease
- ▶ Probiotics and allergy
- ▶ Potential protective effects of probiotics and prebiotics against colorectal cancer
- ▶ Urogenital applications of probiotic bacteria
- ▶ Prebiotics and probiotics and oral health
- ▶ Development of mucosal vaccines based on lactic acid bacteria
- ▶ Application of pre- and probiotics in livestock
- ▶ Safety assesment of probiotics

### Print

2009. Approx. 1200 p.  
(In 2 volumes, not available separately)  
Hardcover  
ISBN 978-0-387-79057-2

### eReference

2009.  
ISBN 978-0-387-79058-9

### Print + eReference

2009.  
ISBN 978-0-387-79059-6

Prebiotics and Probiotics Science and Technology

Charalampopoulos, D.; Rastall, R.A. (Eds.)

2009, XLVI, 1262 p. In 2 volumes, not available  
separately., Hardcover

ISBN: 978-0-387-79057-2