



# Handbook of Probiotics and Prebiotics

By Yuan Kun Lee, Seppo Salminen

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Since the publication of the first edition in 1999, the science of probiotics and prebiotics has matured greatly and garnered more interest. The first handbook on the market, Handbook of Probiotics and Prebiotics: Second Edition updates the data in its predecessor, and it also includes material topics not previously discussed in the first edition, including methods protocols, cell line and animal models, and coverage of prebiotics. The editors supplement their expertise by bringing in international experts to contribute chapters. This second edition brings together the information needed for the successful development of a pro- or prebiotic product from laboratory to market.

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## **Handbook of Probiotics and Prebiotics** By Yuan Kun Lee, Seppo Salminen Bibliography

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## **Editorial Review**

### Review

"Overall this is a useful handbook. Its primary aim, i.e. to put together the newest information and technology required to develop a successful pro- or prebiotic product from the laboratory to the market, is accomplished in my opinion." (*Beneficial Microbes*, September 2010)

"This is a timely and highly informative production that will serve as a valuable resource for students, newcomers and active researchers in gut microbiology, food microbiology and biotherapeutics.... Highly recommended." (*Microbiology Today*, May 2009)

### From the Back Cover

Your handbook for developing successful probiotic and prebiotic products

The Second Edition of the Handbook of Probiotics and Prebiotics brings together all the latest information and technology needed to develop successful probiotic and prebiotic products. From the laboratory to the marketplace, every phase of development is covered, including evaluating, testing, analyzing, manufacturing, and processing.

In addition to probiotics, this Second Edition now covers prebiotics, examining the results from the latest scientific research and clinical interventions. Thoroughly revised and updated, the Second Edition features much more new material, including:

- A new chapter dedicated to the mechanisms of probiotics
- A new chapter on commercially available human probiotic microorganisms
- The latest methods for the analysis, enumeration, and identification of gastrointestinal microbiota
- The most recent developments in cell line and animal models
- New information on the safety of novel probiotic bacteria, reflecting new regulatory requirements for novel food products in Asia, the EU, and North America
- The latest information on the role probiotics and prebiotics play in health and nutrition

This handbook features a team of expert authors whose experience encompasses every stage of probiotic and prebiotic analysis and development. As a result, the book addresses many of the practical issues that manufacturers and researchers face when dealing with probiotic organisms and prebiotic compounds.

With more and more interest in probiotics and prebiotics as well as a growing number of commercially available products, the Handbook of Probiotics and Prebiotics will help you understand how these products work and help you create the next generation of probiotic and prebiotic products.

### About the Author

Yuan Kun Lee, PHD, is an Associate Professor in the Department of Microbiology at the National University of Singapore, where he researches fermentation and microbe-host interactions and probiotics. Dr. Lee has written ninety journal papers, sixty conference proceedings, twenty-eight book chapters, and three books. He is also the holder of three patents.

Seppo Salminen, PHD, is a Professor in the Department of Biochemistry and Food Chemistry at the University of Turku in Finland. He is also a Visiting Professor of Food Toxicology at RMIT University in Australia. Prior to his academic career, Dr. Salminen worked as a nutrition specialist, project manager, and toxicologist for private industry and government agencies. Dr. Salminen has written more than 240 refereed publications, several book chapters, and five books.

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