

1. Record Nr.	UNINA9910787567103321
Titolo	Interactive probiotics // editor, Enrica Pessione, Department of Life Sciences and Systems Biology, University of Torino, Italy
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , [2014] ©2014
ISBN	0-429-07202-3 1-4665-7555-7
Descrizione fisica	1 online resource (274 p.)
Disciplina	612.39
Soggetti	Probiotics Actinobacteria Biochemistry Lactobacillales
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Probiotic social life, biochemical cross-talk and ecological relationships among bacteria / Enrica Pessione -- 2. Fighting off human infections : a new role for bacteriocin molecules / Konstantinos Papadimitriou, Voula Alexandraki and Effie Tsakalidou -- 3. Lactic acid bacteria to modulate virulence expression in pathogenic bacteria : an alternative to killing? / Sergine Even, Damien Bouchard and Yves Le Loir -- 4. Probiotic-mediated modulation of host gene expression / Sarah O'Flaherty -- 5. Bifidobacteria and their interaction with the gastrointestinal environment / Borja Sanchez, Irene Gonzalez-Rodriguez, Clara G. de los Reyes-Gavilan, Patricia Ruas-Madiedo and Abelardo Margolles -- 6. New probiotics : dairy propionibacteria and the modulation of gut microbiota and physiology / Stephanie-Marie Deutsch and Gwenael Jan -- 7. Neuro-active compounds produced by probiotics : towards a microbiota-(gut-) brain axis control? / Roberto Mazzoli -- 8. Nutraceutical and antioxidant potential of probiotics : the case of selenium fixing bacteria and selenium enriched yeasts / Erika Mangiapane -- 9. The double face of bacteria and the ambiguous role of some probiotics / Alessandro Pessione -- 10. Probiotics meets

proteomics : how proteomics can contribute to risk assessment and biomolecular understanding / Stephan Fuchs and Katharina Riedel --  
11. Prebiotic enhancement of probiotic potential : oligosaccharides triggering modification of protein profiles in lactic acid bacteria / Avishek Majumder, Morten Ejby, Gabriella C. van Zanten, Anne Knudsen, Sampo J. Lahtinen, Birte Svensson and Susanne Jacobsen.

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Sommario/riassunto

This book underlines the importance of reciprocal interactions between probiotics and humans in terms of stress induction, epigenetic control of cellular responses, oxidative status, bio-active molecules biosynthesis, moonlighting proteins secretion, endogenous toxins neutralization, and several other biological functions. It explores how these responses can affect metabolism and metabolic-related disorders, gutbrain axis balance, mood, inflammatory, allergic and anti-infective reactions, cancer, and ageing. The book explores how probiotics create a dynamic and fluid network of signals able to control the balance between healthy and altered human status--Provided by publisher.

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