

## **BOOK REVIEW**

### **Probiotics in Children**

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It will be more than one century since Metchnikoff proposed idea of the application of yoghurt/lactic acid bacteria as factors for the potential life-lengthening in "*The Prolongation of Life: Optimistic Studies*". This was one century of intensive work, research and marketing - research of more than one century focused on a huge expansion of interest in the gastrointestinal microbiota and understanding of its influence on health; the functions of the gastrointestinal microbiota beyond the gastrointestinal tract and can it affect the whole body. The increasing knowledge of the beneficial properties of lactic acid bacteria and the importance of this type of bacteria on our daily life is significant. Besides been used in enormous fermentation process and preparation of different fermented food products, lactic acid bacteria are also natural members of the human and other animals' gastrointestinal microbiota and several strains are considered beneficial to the host and have been selected for probiotic applications.

The present book presents in an elegant manner essential knowledge on fundamental and applied research in area of probiotics. Editors of the book have selected and organized works covering subjects from gastrointestinal microbiota and its role in the health of babies and children's; how prebiotics can influence combat of the common and emergency disorders in neonatal and infantile disorders such as type 1 diabetes, allergic and atopic diseases, autism, sudden infant death syndrome, celiac diseases, necrotizing enterocolitis, infantile colic, functional gastrointestinal disorders, inflammatory bowel diseases, acute gastroenteritis, *Helicobacter pylori* infections, etc. Probiotics for immune-modulation and treatment of immunological disorders in children, role of probiotics in pediatric dermatoses, oral health, allergic diseases, respiratory tract infections, obesity and metabolic syndrome and celiac disease been reviewed. Applied issues of safety application, practical and ethical dilemmas, right choice for appropriate probiotic/s in clinical practice and even development of personalized next generation of probiotic bacteria been explored. Implications for probiotic use in healthy children, together with disease combat as applying of fecal microbiota transplantation and even possible application of probiotic in control and combat of cancer and issues of application of symbiotics were essential part of this book.

This book is contributing to increasing knowledge of those who are involved in research on lactic acid bacteria in fundamental and applied science of probiotics and the distribution of these bacteria in the gastrointestinal tract. The chapter's reviews what is known about the probiotics, how they can be apply, what is the future of probiotics in complex processes in the gastrointestinal tract and its influence on health, and gives an overview of probiotics in terms of their guidelines, potential benefits and considerations for use in children.

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