

1. Record Nr.	UNINA9910416097603321
Titolo	Gut microbiome and its impact on health and diseases // edited by Debabrata Biswas, Shaik O. Rahaman
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-47384-8
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (291 pages)
Disciplina	612.32
Soggetti	Microbiology Food - Biotechnology Nutrition Microbiota intestinal Sistema immunitari Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Contribution of human and animal to the microbial world and ecological balance -- Determinants of the Gut Microbiota -- Effects of Diet on Human Gut Microbiome and Subsequent Influence on Host 1 Physiology and Metabolism. -Probiotics and prebiotics on intestinal flora and gut health -- Role of the gut flora in human nutrition and gut health -- Gut microbiome in inflammation and chronic enteric infections -- Role of gut microbiome in colorectal cancer -- Gut microbiota and risk for atherosclerosis: current understanding of the mechanisms -- Gut microbiome and its role in enteric infections with microbial pathogens -- Antibiotic Therapy and its Effect on Gut Microbiome in Obesity and Weight loss -- Impact of gut microbiota on host through exploring proteomics -- Modulation of gut flora and its application in food animal products -- Index.
Sommario/riassunto	This book provides a comprehensive examination of the role of gut microbiome/microflora in nutrition, metabolism, disease prevention and health issues, including farm animal health and food value, and human gastrointestinal health and immunity. Indigenous microbiotas,

particularly the gut microflora/microbiome, are an essential component in the modern concept of human and animal health. The diet and lifestyle of the host and environment have direct impact on gut microflora and the patterns of gut microbial colonization associated with health and diseases have been documented. Contributing authors cover the impact of gut microbiome in farm animal health, and explore the possibility of modulating the human gut microbiome with better animal products to prevent human diseases, including endemic and emerging diseases such as obesity, cancer and cardiac diseases. Dieting plan and control methods are examined, with attention paid to balance dieting with natural food and drink components. In addition, the role of gut microbiota in enteric microbial colonization and infections in farm animals is also discussed. The volume also explores the possibility of improving human health by modulating the microbiome with better food, including bio-active foods and appropriate forms of intake. Throughout the chapters, authors examine cutting edge research and technology, as well as future directions for better practices regarding emerging issues, such as the safety and production of organic food.
