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	Collana	Society of Dairy Technology series
	Altri autori (Persone)	TamimeA. Y
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	Nota di contenuto	<ul> <li>Probiotic Dairy Products; Contents; Preface to Technical Series; Preface; Contributors; 1 Microbiota of the Human Gut; 1.1 Background; 1.2 The human gastrointestinal tract and its microbiota; 1.3 Functions of the gastrointestinal microbiota; 1.4 Influences on the GI tract and its microbiota; 1.5 Beneficial microbiota: probiotics and health aspects;</li> <li>1.5.1 Enzymatic activity and improved digestion; 1.5.2 Clostridium difficile-associated intestinal disease; 1.5.3 Antibiotic-associated diarrhoea; 1.5.4 Acute diarrhoea and gastroenteritis; 1.5.5 Extra- intestinal applications</li> <li>1.5.6 Other potential applications1.5.7 Product considerations; 1.5.8 Prebiotics; 1.6 Conclusions; References; 2 Genomic Characterisation of Starter Cultures; 2.1 Introduction; 2.2 The Omic approaches; 2.2.1 Background; 2.2.2 Exploration of genomic sequences; 2.2.3 Tools for converting genomic sequences to biologically relevant information; 2.2.4 What can genomics be used for?; Comparative genomics; Tracking of strains; Strain characterisation; Strain improvement; Safety</li> </ul>

	assessment; Improving production conditions; Mode of action; 2.3 State of the art 2.3.1 Publicly available genome sequences2.3.2 Evolutionary genomics of lactic acid bacteria; 2.3.3 Complete genome sequences of potentially probiotic micro-organisms; Lactococcus lactis subsp. lactis IL1403; Bifdobacterium longum NCC2705; Lactobacillus johnsonii NCC533; Lactobacillus plantarum WCFS1; Lactobacillus acidophilus NCFM; 2.3.4 Metagenomics; Metagenomic analyses; 2.4 Future perspectives; 2.4.1 Nutrigenomics; 2.4.2 Mode of action of probiotics; 2.4.3 Development of new probiotics; 2.5 Conclusions; References 3 Production and Maintenance of Viability of Probiotic Micro-organisms in Dairy Products3.1 Introduction; 3.2 Probiotic micro-organisms; 3.2.1 General characteristics; 3.2.2 Examples of commercial starter cultures blends; 3.3 Economic value; 3.4 Types of probiotic dairy product; 3.4.1 Fermented milks and beverages; Nordic cultured buttermilk (pima, Imj Ik) and ke r (drinking-type); Non-drinking fermented milk products; Skyr, ymer and strained yoghurt (concentrated fermented milks); Quality appraisal of probiotic fermented milks; 3.4.2 Cheeses; Methods of introduction in cheese Strain selection3.4.3 Ice-cream and frozen desserts; 3.4.4 Miscellaneous dairy products; Probiotic sweet milk; Fat spread; Dried products; Long shelf-life fermented milk drinks or beverages; Milk- and water-based cereal puddings; 3.5 Viability of probiotic micro- organisms; 3.5.1 Composition of the fermentation medium; 3.5.2 Viability as affected by oxygen; 3.6 Methods to improve the viability of probiotic micro-organisms in the product; 3.6.1 Selection of bacterial strain(s); 3.6.2 Type of packaging container; 3.6.3 Rate of inoculation; 3.6.4 Two-stage fermentation 3.6.5 Microencapsulation technique
Sommario/riassunto	Following significant developments in recent understanding of milk systems and an explosion in interest in the use of probiotics and prebiotics as functional foods Probiotic Dairy Products looks at advancements in the dairy industry and reviews the latest scientific developments in regard to the 'functional' aspects of dairy and fermented milk products and their ingredients. The first title in Blackwell Publishing's prestigious Society of Dairy Technology Series, this key text includes coverage of:Production systemsGut microfloraGenomic characterisation of probiot