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	INTRODUCTION; 2. GENERAL STRUCTURAL FEATURES OF THE LIPID A MOLECULE; 3. LIPOPOLYSACCHARIDES OF MAMMALIAN PATHOGENIC BACTERIA: THE CASE OF B. CEPACIA COMPLEX 4. PLANT PATHOGENIC AGROBACTERIUM AND XANTHOMONAS LPS AND THE ACTIVATION OF INNATE IMMUNE RESPONSE IN PLANTS 5. STRUCTURAL ELUCIDATION OF LIPID A; 6. GENERAL STRUCTURAL FEATURES OF THE CORE REGION; 7. CORE STRUCTURES OF VARIOUS BACTERIA; 8. CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; Chapter 4. O-Specific polysaccharides of Gram-negative bacteria; SUMMARY; 1. INTRODUCTION; 2. COMPOSITION OF O-PSs; 3. REPETITIVE O-PS STRUCTURES; 4. NON-REPETITIVE MOTIFS; 5. CONCLUSIONS; REFERENCES; Chapter 5. Teichoic acids, lipoteichoic acids and related cell wall glycopolymers of Gram-positive bacteria SUMMARY1. INTRODUCTION; 2. TEICHOIC ACID STRUCTURES; 3. BIOSYNTHESIS OF WTAS AND LTA; 4. ROLES OF WTAS AND LTA IN BACTERIAL PHYSIOLOGY; 5. TEICHOIC ACID STRUCTURES; 3. BIOSYNTHESIS OF WTAS AND LTA; 4. ROLES OF WTAS AND LTA IN BACTERIAL PHYSIOLOGY; 5. TEICHOIC ACID STRUCTURES; 3. CKNOWLEDGEMENTS; REFERENCES; Chapter 6. Bacterial capsular polysaccharides and exopolysaccharides; SUMMARY 1. INTRODUCTION; 2. CARBOHYDRATE COMPONENTS OF CAPSULAR AND EXO-POLYSACCHARIDES; 3. NON-CARBOHYDRATE SUBSTITUENTS OF CAPSULAR AND EXOPOLYSACCHARIDES; 4. STRUCTURE OVERVIEW OF BACTERIAL POLYSACCHARIDES; 5. POLYSACCHARIDE SHAPES 6. BIOLOGICAL FUNCTIONS OF CAPSULAR AND EXOPOLYSACCHARIDES 7. EXOPOLYSACCHARIDES OF THE BURKHOLDERIA CEPACIA COMPLEX: A CASE STUDY; 8. CONCLUSION; ACKNOWLEDGEMENTS; REFERENCES; Chapter 7. Bacterial surface layer glycoproteins and "non-classical" secondary cell wall polymer; SUMMARY; 1. INTRODUCTION; 2. BACTERIAL AND ARCHAEAL S-LAYERS; 3. GENERAL FEATURES OF GLYCOSYLATED S-LAYER PROTEINS; 4. GENETICS; 5. BIOSYNTHESIS; 6. THE ""NON-CLASSICAL"" GROUP OF SECONDARY CELL WALL POLYMERS; 7. OUTLOOK; ACKNOWLEDGEMENTS; REFERENCES; Chapter 8. Glycosylation of bacterial and archaeal flagellins; SUMMARY 1. INTRODUCTION
Sommario/riassunto	This book presents in an easy-to-read format a summary of the important central aspects of microbial glycobiology, i.e. the study of carbohydrates as related to the biology of microorganisms. Microbial glycobiology represents a multidisciplinary and emerging area with implications for a range of basic and applied research fields, as well as having industrial, medical and biotechnological implications.Key Features and Benefits* Individual chapters provided by leading international scientists in the field yield insightful, concise and stimulating reviews Provides research