

TOPICS IN CURRENT CHEMISTRY

288

Volume Editors T. K. Lindhorst · S. Oscarson

Glycoscience and Microbial Adhesion

 Springer

Glycoscience And Microbial Adhesion 288 Topics In Current Chemistry

Elena Soriano, José Marco-Contelles



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Glycoscience and Microbial Adhesion Thisbe K. Lindhorst, Stefan Oscarson, Julie Bouckaert, 2009-06-23 bacterial carbohydrate recognition are conveyed covering Gram positive as well as Gram negative bacteria in Chapter 4 Streptococci and Staphylococci and in Chapter 5 carbohydrate binding specificities of Helicobacter pylori In Chapter 6 Bitter sweetness of complexity the collected reflections on microbial adhesion are expanded by a perspective on a broader impact of glycosylation on cellular adhesion motility and regulatory processes paralleling the complexity of N glycan structures on cell surfaces It highlights particularly how structural details of N glycans have been causally related to pathological scenarios with a focus on 1 6 N acetylglucosaminyltransferase In the final chapter biofilm formation is reviewed covering knowledge about structure and biosynthesis of polysaccharide intercellular adhesins PIAs which are central to biofilm formation This comprehensive chapter explains all PIA related principles of medical device associated infections It is our hope that this collection of expert articles ranging from structural chemistry and structural biology to biochemistry and medicine will be a stimulation and motivation for our colleagues in the life sciences At the same time we hope that these reflections on microbial adhesion will awake interest in and promote understanding of the complex processes associated with the glycocalyx and the multifaceted interactions between the host cell and its guest as well as the biological consequences resulting from this mutual interplay

Glychochemical Synthesis Shang-Cheng Hung, Medel Manuel L. Zulueta, 2016-10-10 This book is a comprehensive and concise review on principles strategies and crucial advances in glycochemistry It focuses on synthesis and practical applications and emphasizes state of the art approaches to the assembly and design of sugars Provides detailed discussion on specific topics like oligosaccharide assembly and design of sugars techniques in glycoconjugate preparation multivalency and carbohydrate based drug design Uses notable examples like solution based one pot methods and automated methods for sugar assembly to illustrate important concepts and advances in a rapidly emerging field Discusses practical applications of carbohydrates like medicine therapeutics drug and vaccine development

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