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Microbial Glycobiology. Microbial Glycobiology. Structures, Relevance and Applications. 2010, Pages 269-283. Chapter 15 - Viral surface glycoproteins in carbohydrate recognition: Structure and modelling. Author links open overlay panel Jeffrey C. Dyason Mark von Itzstein. Show more.

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Polysaccharides are linear or branched polymers built up exclusively or mainly of monosaccharides. In glycoconjugates, a polysaccharide chain(s) is linked to a protein/peptide (glycoprotein, proteoglycan, and peptidoglycan) or a lipid (lipoglycans, glycolipids). The bacterial glycome consists of a ...

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Moran AP , Holst O , Brennan PJ and von Itzstein M (eds) (2009) Microbial Glycobiology. Structures, Relevance and Applications. Amsterdam, The Netherlands: Elsevier.

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Polysaccharide Capsules. A human in good health is colonized by as many as 10<sup>14</sup> bacteria on their skin and mucosal surfaces (particularly in the gastrointestinal tract), a number that exceeds by an order of magnitude the number of cells in our own body. Despite all these direct encounters, only a small handful of bacterial species are known to spread into the body to produce serious infections.

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and glycobiology, including the chemical synthesis of carbohydrates, their biological functions and the ... increasing biological interest and importance. ... deuterostome organisms that express sialic acids are microbial patho-gens that invade vertebrates, apparently because this is a successful

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xanthus, and the formation of surface microbial communities on implants by pathogenic microbes.

Microorganisms are divided into two subgroups on basis of structure of the individual cell. (This has clinical

importance, since different classes of antibiotics are used to treat pathogens in each group.)

## **INTRODUCTION TO BACTERIOLOGY AND BACTERIAL STRUCTURE**

importance of glycobiology in biosciences, it is possible to predict that dextran and the enzymes involved in its synthesis, modification (e.g., through transglycosylation), and hydrolysis will have increasing significance in the future. To comprehend the special nature of dextran-degrading enzymes, a brief out-

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