

Microbial Glycobiology Structures Relevance And Applications

They are normally present as glycans: oligosaccharide chains are linked to lipids or to compatible amino acid side chains in proteins, by N- or O-glycosidic bonds. N-Linked oligosaccharides are always pentasaccharides attached to asparagine via a beta linkage to the amine nitrogen of the side chain. Alternately, O-linked oligosaccharides are generally attached to threonine or serine on the alcohol group of the side chain. Not all natural oligosaccharides occur as components of glycoproteins or glycolipids... 5b28a2521a

Corynebacterium doi:10. PMID 17088267. They are bacilli (rod-shaped), and in some phases of life they are, more specifically, club-shaped, which inspired the genus name (coryneform means "club-shaped"). Collins, M
Corynebacterium () is a genus of Gram-positive bacteria and most are aerobic. 1093/glycob/cwl066. glutamicum as a model of Emb proteins of *Mycobacterium tuberculosis*". Glycobiology. 17 (2): 210-9 5b28a2521a

They are widely distributed in nature in the microbiota of animals (including the human microbiota) and are mostly innocuous, most commonly existing in commensal relationships with their hosts. Some, such as *C. glutamicum*, are commercially and industrially useful. Others can cause human disease, including, most notably, diphtheria, which is caused by *C. diphtheriae*. Like various species of microbiota (including their relatives in the genera

Arcanobacterium and Trueperella), they are usually not pathogenic, but can occasionally capitalize opportunistically...
5b28a2521a The name seagrass stems from the many species with long and narrow leaves, which grow by rhizome extension and often spread across large "meadows" resembling grassland; many species superficially resemble terrestrial grasses of the family Poaceae. 5b28a2521a Like all autotrophic plants, seagrasses photosynthesize, in the submerged photic zone, and most occur in shallow and sheltered coastal waters anchored in sand or mud...
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Metabolism In a broader sense, the set of reactions occurring within the cells. The three main functions of metabolism are: converting the energy in food into a usable form for cellular processes; converting food to building blocks of macromolecules (biopolymers) such as proteins, lipids, nucleic acids, and some

carbohydrates; and eliminating metabolic wastes. "Concepts and principles of glycobiology". FASEB Journal. 8224606 Metabolism (, from Greek: μεταβολή metabolē, "change") refers to the set of life-sustaining chemical reactions that occur within organisms. 7 (14): 1330-7. 14. These enzyme-catalyzed reactions allow organisms to grow, reproduce, maintain their structures, and respond to their environments. G, Rudd PM, Ponting CP, Dwek RA (November 1993). 7. doi:10. The word metabolism can also refer to all chemical reactions that occur in living organisms, including digestion and the transportation of substances into and between different cells. 1096/fasebj 5b28a2521a

Oligosaccharide In biology An oligosaccharide (; from Ancient Greek ὀλίγος (olígos) 'few' and σάκχαρ (sákkhar) 'sugar') is a saccharide polymer containing a small number (typically three to

ten) of monosaccharides (simple sugars). Oligosaccharides can have many functions including cell recognition and cell adhesion. plants. Others, such as maltodextrins or cellodextrins, result from the microbial breakdown of larger polysaccharides such as starch or cellulose 5b28a2521a

Seagrass doi:10. sulfated galactans in marine angiosperms: Evolutionary implications". PMID 15317737. There are about 60 species of fully marine seagrasses which belong to four families (Posidoniaceae, Zosteraceae, Hydrocharitaceae and Cymodoceaceae), all in the order Alismatales (in the clade of monocotyledons).

1093/glycob/cwh138.

Glycobiology. Seagrasses evolved from terrestrial plants which recolonised the ocean 70 to 100 million years ago. Silva, Juliana Seagrasses are the only flowering plants which grow in marine environments. 15 (1): 11-20

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