

Diatom Polysaccharides Extracellular Production

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Release of extracellular products by phytoplankton with ...

The production and composition of extracellular polymeric substances (EPS) in axenic batch cultures of the benthic marine epipelagic diatoms *Navicula salinarum* and *Cylindrotheca closterium* were investigated.

Constitutive Extracellular Polysaccharide (EPS) Production ...

Diatoms are a silicifying group of phytoplankton that account for ~20% of global primary production (Nelson et al., 1995; Thornton, 2014). Like all phytoplankton, they produce and store copious amounts of polysaccharides (Haug and Myklestad, 1976). The kinds of polysaccharides produced vary among different classes of phytoplankton, with diatoms producing β -1,3 glucans such as chrysolaminarin ...

Diatom Polysaccharides Extracellular Production

1. Introduction. Diatoms, important marine photoautotrophic protists that account for up to 25% of the primary production on Earth [], produce large quantities of extracellular polymeric substances (EPS), consisting predominantly of polysaccharides []. Diatom extracellular polymers participate in various processes, both at the cellular level and in the environment.

Isolation and characterization of extracellular ...

The effects of phosphate (P) limitation, varying salinity (5–65 psu), and solid media growth conditions on the polysaccharides produced by the model diatom, *Phaeodactylum tricornutum* Bohlin were determined. Sequential extraction was used to separate polymers into colloidal (CL), colloidal extracellular polymeric substances (cEPS), hot water soluble (HW), hot bicarbonate soluble (HB), and hot ...

Diatom Polysaccharides: Extracellular Production ...

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Extracellular diatom proteins. Medical search. FAQ

Polysaccharide was the major component of adhesives formed during cell motility, synthesis of a basal pad, and/or production of a highly organized shaft. Hot water-insoluble/hot 0.5 M NaHCO₃-soluble anionic polysaccharides from *A. longipes* and *A. coffeaeformis* adhesives were primarily composed of galactosyl (64-70%) and fucosyl (32-42%) residues.

Role of Polysaccharides in Diatom *Thalassiosira pseudonana* ...

The production of extracellular carbohydrates by estuarine benthic diatoms: the effects of growth phase and light and dark ... Chao Du, MALDI-TOF MS analysis of the extracellular polysaccharides released by the diatom *Thalassiosira pseudonana* under various nutrient conditions, *Journal of Applied Phycology*, 10.1007/s10811-014-0360-0, 27 ...

Isolation and characterization of extracellular ...

A laboratory study was performed on the extracellular production of carbohydrates by the marine diatoms *Cylindrotheca closterium*, *Thalassiosira*

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pseudonana and Skeletonema costatum. The investigation was aimed at elucidating the role of P-starvation and growth status on abundance and chemical characteristics of the released non-attached polysaccharides.

Influence of nutrient ratios on the *in vitro* ...

The production and composition of extracellular polymeric substances (EPS) in axenic batch cultures of the benthic marine epipelagic diatoms *Navicula salinarum* and *Cylindrotheca closterium* were investigated. EPS was secreted into the medium and the bulk was loosely associated with the cells.

Extracellular Matrix Assembly in Diatoms ...

Diatom growth was generally enhanced in the presence of bacteria, and polysaccharide secretion was generally increased in the presence of Proteobacteria. The monomer composition of extracellular polysaccharides of *C. microcephala* changed in relation to the presence of different bacteria, but the dominant monomers were less affected.

Isolation and characterization of extracellular ...

Extracellular polysaccharides production by field populations of large size class *Crocospaera* was investigated using Alcian Blue staining and microscopy. Groupings of large *Crocospaera*-like cells were observed at two stations in the North Pacific (Figure (Figure5). 5).

(PDF) Extracellular Polysaccharide Production by ...

Influence of nutrient ratios on the *in vitro* extracellular polysaccharide production by marine diatoms from the Adriatic Sea, *Journal of Plankton Research* ... any of the three diatom species produce extracellular polysaccharides both in the logarithmic and stationary phase of growth. The potential ecological significance of ...

Diatom Polysaccharides: Extracellular Production ...

The extracellular polysaccharide production by marine diatoms is a significant route by which photosynthetically produced organic carbon enters the trophic web and may influence the physical environment in the sea as observed for example when massive aggregation events on basin scale occur.

The production of extracellular carbohydrates by estuarine ...

Isolation and characterization of extracellular polysaccharides from the epipelagic diatoms *Cylindrotheca closterium* and *Navicula salinarum* NATASCHA STAATS 1, BEN DE WINDER*, LUCAS J. STAL2 AND LUUC R. MUR1 "Department of Microbiology}ARISE, University of Amsterdam, Nieuwe Achtergracht 127, 1018 WS Amsterdam, The Netherlands

Diatom Polysaccharides Extracellular Production

production and diatoms are responsible for more than half of the organic carbon flux to the deep ocean. DOM (dissolved organic matter) represents the largest pool of organic matter in the sea, with substantial part still uncharacterized [1]. The extracellular polysaccharide production by marine diatoms is a significant route by

Marine Polysaccharide Networks and Diatoms at the ...

Khandeparkar, RDS, Bhosle, NB (2001) " Extracellular polymeric substances of the marine fouling diatom " . *Amphora rostrata* Wm Sm *Biofouling* 17: 103 – 115

Extracellular carbohydrates released by the marine diatoms ...

Diatoms Phytoplankton Eukaryota Microalgae Aquatic Organisms Raphanus Gadiformes Cistus Polychaeta Thoracica Larva Zoogloea Isopoda Bacteria Chemicals and Drugs 18 DNA, Algal Algal Proteins Silicic Acid Silicon Dioxide Silicon Xanthophylls Polysaccharides, Bacterial Polysaccharides Phosphorus Carbonic Anhydrases Trioses Glycoconjugates Hemerythrin Metalloproteins Oxygen Recombinant Proteins ...

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EXTRACELLULAR MATRIX ASSEMBLY IN DIATOMS ...

Production of carbohydrate by the marine diatom *Chaetoceros affinis* var. *willei* (Gran) Hustedt. III. Structural studies of the extracellular

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polysaccharide. Acta Chem. Scand., B28: 662-666. Smestad, B., A. Haug and S. Myklestad, 1975. Structural studies of the extracellular polysaccharide produced by the diatom *Chaetoceros curvisetus* Cleve.

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