

Diatom Polysaccharides Extracellular Production

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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.

Diatom Polysaccharides: Extracellular Production ...

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P. V. Bramhachari, Ganji Purnachandra Nagaraju, Extracellular Polysaccharide Production by Bacteria as a Mechanism of Toxic Heavy Metal Biosorption and Biosequestration in the Marine Environment, Marine Pollution and Microbial Remediation, 10.1007/978-981-10-1044-6, (67-85), (2017).

DIATOM EXTRACELLULAR POLYMERIC SUBSTANCES: FUNCTION, FINE ...

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.

Marine Polysaccharide Networks and Diatoms at the ...

The effects of phosphate (P) limitation, varying salinity (5‰ 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 (eEPS), hot water soluble (HW), hot bicarbonate soluble (HB), and hot alkali (HA) soluble fractions.

EXTRACELLULAR MATRIX ASSEMBLY IN DIATOMS ...

The production and composition of extracellular polymeric substances (EPS) in axenic batch cultures of the benthic marine epipellic diatoms *Navicula salinarum* and *Cylindrotheca closterium* were investigated. EPS was secreted into the medium and the bulk was loosely Neither *N. salinarum* nor *C. closterium* formed a well-defined polysaccharide capsule.

Isolation and characterization of extracellular ...

Nutrient status profoundly affects the amount and composition of the exudate. Severe N- and P-limitation favours the release of carbohydrates that do not contain these elements. Increase in the medium N P ratio above the classical Redfield ratio of 16 increases the production of extracellular polysaccharides in laboratory cultures. The type and amount of polysaccharide excreted and the effects of nutrient limitation are often highly species-specific.

Release of extracellular products by phytoplankton with ...

The excretion of extracellular polymeric substances (EPS) by an axenic culture of the benthic diatom *Cylindrotheca closterium* was investigated. Two sequential extraction steps proved to be sufficient to remove the bulk of the EPS present. Soluble EPS was recovered by a simple centrifugation step and represented a fraction that was not or was only loosely associated with diatom cells.

Physical characterization and diel dynamics of different ...

Diatoms secrete a significant amount of polysaccharides, which can serve as a critical organic carbon source for bacteria. The 2010 Deepwater Horizon oil spill exposed the Gulf of Mexico to substantial amounts of oil that also impacted the phytoplankton community. Increased production of exopolymeric substances was observed after this oil spill.

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

The cellulose synthesis inhibitor 2,6-dichlorobenzonitrile (DCB) and the DCB analogs 2-chloro-6-fluorobenzonitrile, 3-amino-2,6-dichlorobenzonitrile, and 5-dimethylamino-naphthalene-1-sulfonyl-(3-cyano-2, 4-dichloro)aniline (DCBF) inhibited extracellular adhesive production in the marine diatom *Achnanthes longipes*, resulting in a loss of motility and a lack of permanent adhesion.

Extracellular Matrix Assembly in Diatoms ...

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

Extracellular carbohydrates released by the marine diatoms ...

The production of polysaccharide-rich extracellular poly-meric substances (EPS) by microorganisms is ubiquitous in many environments: water, soils, benign and pathogenic biofilms [1, 2], where EPS play important roles in cell adhesion, cell signalling, ligand binding and as a carbon source [3,5]. The production of EPS is a characteristic of

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