

Chaetoceros Species Identified And Figured By A Van Der

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CLASS 11 SCIENCE BIOLOGY TOPIC: BIOLOGICAL CLASSIFICATION KINGDOM PROTISTA ~~Symbioses of Ciliates (Ciliophora) and Diatoms (Bacillariophyceae): Host-Symbiont Interactions~~ 2020-10-27 - Diatom Web Academy 16 - Microbial biogeography through the lens of an invasive species *The Beauty of Diatoms - Perspectives on Ocean Science Chaetoceros Species Identified And Figured*

Chaetoceros salsugineum nuclear inclusion virus (CsNIV) is a 38-nm icosahedral virus that replicates within the nucleus of *C. salsugineum*. CsNIV has a novel partially dsDNA genome, being a single molecule of covalently closed circular single-stranded DNA (ssDNA; 6005 nucleotides), together with a piece of linear ssDNA (997 nucleotides) that is complementary to a portion of the closed circle (Nagasaki et al. , 2005).

Chaetoceros - an overview | ScienceDirect Topics

Chaetoceros salsugineum nuclear inclusion virus (CsNIV) infects the small-sized (2.0–9.5 μm wide) diatom *C. salsugineum*, which forms short or long straight chains. Its bloom occurs in brackish lakes and estuarine waters. CsNIV is a ~38 nm icosahedral virus that replicates within the host nucleus (Figure 9). The genome structure is unlike that of other viruses that have been described to ...

Chaetoceros - an overview | ScienceDirect Topics

Chaetoceros is probably the largest genus of marine planktonic diatoms with approximately 400 species described, although a large number of these descriptions are no longer valid. It is often very difficult to distinguish between different *Chaetoceros* species. Several attempts have been made to restructure this large genus into subgenera and this work is still in progress. However, most of the effort to describe species has been focused in boreal areas, and the genus is cosmopolitan, so there are

Chaetoceros - Wikipedia

Chaetoceros furcellatus is an Arctic neritic diatom in the genus *Chaetoceros*. The easiest way to identify this species is by finding the very characteristic resting spores. *C. furcellatus* is a common and important species in the Barents sea. Species description. Cells united into chains that can be long and slightly curved.

Chaetoceros furcellatus - Wikipedia

This note is dedicated to Albert van der Werff (1903–1991), the Dutch diatom expert, distributing his extended knowledge to numerous students interested in aquatic ecology. His drawings of the resting cysts of *Chaetoceros* affine *Lauder* and *Ch. constrictum* Gran, not figured in his diatom flora (van der werff and huls, 1957–1974), are published and discussed. The figures represent a valuable ...

Resting cysts of some Chaetoceros species, identified and ...

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Chaetoceros Species Identified And Figured By A Van Der

With more than 400 species, the diatom genus *Chaetoceros* Ehrenberg is one of the most species-rich genera of marine planktonic diatoms. Although most *Chaetoceros* taxa are considered to be ...

(PDF) *Chaetoceros rotoporus* sp. nov. (Bacillariophyceae ...

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Chaetoceros Species Identified And Figured By A Van Der

The morphology of *Chaetoceros tenuissimus* Meunier, a little-known species, has been studied for the first time with electron microscopy. *C. tenuissimus* has been placed as a synonym of *C. simplex* ...

(PDF) A morphological study of Chaetoceros tenuissimus ...

The marine diatom *Chaetoceros debilis* is a cosmopolitan species and its blooms are often observed in highly productive areas. To date, only *C. debilis* DNA virus (CdebDNAV) has been isolated and characterized. In this study, we successfully identified a previously unknown virus-like particle (VLP) and ssDNA molecules co-occurring with CdebDNAV.

Previously unknown ssDNA molecules co-occurring with ...

Ten of these genetic species groups could be identified to the species level (or variety) and included: *C. concavicornis*, *Chaetoceros contortus* Lauder (sp. 1 and 2), *C. decipiens* sp. 2, *C. lacinosus* Schütt sp. 2, *C. lorenzianus* (sp. 1 and 2), *C. radicans* F. Schütt sp. 2, *T. baltica*, and *T. bioculata* var. *exigua* (Fig. 2).

A Comparison of Morphological and Molecular-Based Surveys ...

Resting cysts of some *Chaetoceros* species, identified and figured by A. van der Werff

Resting cysts of some Chaetoceros species, identified and ...

Title: Resting cysts of some *Chaetoceros* species, identified and figured by A. van der Werff: Published in: Netherlands Journal of Aquatic Ecology, 28, 71 - 75.

Resting cysts of some Chaetoceros species, identified and ...

Chaetoceros is one of the most species rich, widespread and abundant diatom genera in marine and brackish habitats worldwide. It therefore forms an excellent model for in-depth biodiversity studies, assessing morphological and genetic differentiation among groups of strains. The global *Chaetoceros lorenzianus* complex presently comprises three species known to science.

Diversity in the Globally Distributed Diatom Genus ...

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Resting cysts of some Chaetoceros species, identified and ...

The genus *Chaetoceros*, one of the most important genera of diatoms in the marine plankton, has been investigated from 20 stations in Danish waters during the period 1991-1995. Thirty-five taxa were identified, 18 of which were brought into culture for further morphological studies. Three taxa are reported for the first time from Danish coastal waters and one new species is proposed, *C. ...*

The genus Chaetoceros (Bacillariophyceae) in inner Danish ...

Chaetoceros danicus was identified at the dominant *Chaetoceros* species present and its role as a potentially harmful alga confirmed in the literature reviewed. *Chaetoceros danicus* is potentially harmful due to the presence of heavily silicified and barbed setae which can irritate or damage fish gills when concentrations are high enough.

The diatom Chaetoceros spp. as a potential contributing ...

A general term to describe chemical compounds containing silicon, oxygen and hydrogen with a general formula of $[\text{SiO}_x(\text{OH})_{4-2x}]_n$. Diatoms polymerize silicic acid into biogenic silica to form their frustules (Azam and Chisholm 1976). Silicate ($\mu\text{mol L}^{-1}$): 1.309 - 35.210 (OBIS 2012, cited in EOL 2012)

EOS - Phytoplankton Encyclopedia Project

Chaetoceros peruvianus is a marine diatom species with circumglobal distribution. While frequently observed, it appears never to dominate the marine phytoplankton community hence it can be characterized as a rather opportunistic, generalistic species. Here we present ecological interpretations from a long-term data set on marine microphytoplankton in the northern Adriatic Sea, where the ...

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