

Resource Summary Report

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National Center for Marine Algae and Microbiota

RRID:SCR_002120

Type: Tool

Proper Citation

National Center for Marine Algae and Microbiota (RRID:SCR_002120)

Resource Information

URL: <https://ncma.bigelow.org/>

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Description: National marine phytoplankton collection, maintaining over 2700 strains from around the world, most are marine phytoplankton but they also have benthic, macrophytic, freshwater and heterotrophic organisms - now incorporating bacteria and viruses. Strain records have (when available): * collection and isolation information * culturing medium recipes and growth conditions * photographs * GenBank accession link * collection site map * link to the taxonomic database Micro*scope The deposition of new strains are welcome if the strains are a valuable addition to the collection. Examples include strains that are referred to in publications, contain interesting molecular, biochemical or physiological properties, are the basis for taxonomic descriptions, are important for aquaculture, or are from an unusual geographical location or ecological habitat. The NCMA offers a course in phytoplankton culturing techniques and facilities for visiting scientists are available at the new laboratories in East Boothbay, Maine. Services include: Mass Culturing DNA and RNA, Purification, Private Holdings, Culture Techniques Course, Visiting Scientists, Single Cell Genomics, Flow Cytometry, Corporate Alliances and Technology Transfer.

Abbreviations: NCMA

Synonyms: Provasoli-Guillard National Center for Culture of Marine Phytoplankton, Provasoli-Guillard National Center for Marine Algae and Microbiota, CCMP

Resource Type: biomaterial supply resource, material resource, organism supplier

Keywords: marine phytoplankton, marine, phytoplankton, virus, benthic, macrophytic, freshwater, heterotrophic, microbiota, seawater, FASEB list

Funding: NSF

Availability: Restricted

Resource Name: National Center for Marine Algae and Microbiota

Resource ID: SCR_002120

Alternate IDs: nlx_154729

Record Creation Time: 20220129T080211+0000

Record Last Update: 20260804T043133+0000

Ratings and Alerts

No rating or validation information has been found for National Center for Marine Algae and Microbiota.

No alerts have been found for National Center for Marine Algae and Microbiota.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 53 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Jeong M, et al. (2025) Taxonomy of the genus *Poterioochromonas* (Chrysophyceae) based on morphological and molecular evidence. *Journal of phycology*, 61(3), 607.

Alves-de-Souza C, et al. (2025) High Inter- and Intraspecific Variability in Amphidinol Content and Toxicity of Amphidinium Strains. *Marine drugs*, 23(9).

Si L, et al. (2024) Structural basis for the distinct core-antenna assembly of cryptophyte photosystem II. *Nature communications*, 15(1), 6812.

Cleveland CS, et al. (2024) Isolation and biogeography of the oligotrophic ocean diazotroph, *Crocospaera waterburyi* nov. sp. *The ISME journal*, 18(1).

Uchida Y, et al. (2024) Cytochrome c oxidase subunit I gene in *Thalassiosira nordenskiöldii* strains inhabiting in cold and warm sea waters. *Proceedings of the Japan Academy. Series B, Physical and biological sciences*, 100(2), 140.

Novák Vanclová AM, et al. (2024) New plastids, old proteins: repeated endosymbiotic acquisitions in kareniacean dinoflagellates. *EMBO reports*, 25(4), 1859.

Zhang H, et al. (2024) A rapid aureochrome opto-switch enables diatom acclimation to dynamic light. *Nature communications*, 15(1), 5578.

Gee CW, et al. (2024) Implicating the red body of *Nannochloropsis* in forming the recalcitrant cell wall polymer algaenan. *Nature communications*, 15(1), 5456.

Mayali X, et al. (2023) Single-cell isotope tracing reveals functional guilds of bacteria associated with the diatom *Phaeodactylum tricornutum*. *Nature communications*, 14(1), 5642.

Short A, et al. (2023) Kinetics of the xanthophyll cycle and its role in photoprotective memory and response. *Nature communications*, 14(1), 6621.

Johns CT, et al. (2023) Adsorptive exchange of coccolith biominerals facilitates viral infection. *Science advances*, 9(3), eadc8728.

Walworth NG, et al. (2023) Genus-Wide Transcriptional Landscapes Reveal Correlated Gene Networks Underlying Microevolutionary Divergence in Diatoms. *Molecular biology and evolution*, 40(10).

Ferrer-González FX, et al. (2023) Bacterial transcriptional response to labile exometabolites from photosynthetic picoeukaryote *Micromonas commoda*. *ISME communications*, 3(1), 5.

Strauss J, et al. (2023) Plastid-localized xanthorhodopsin increases diatom biomass and ecosystem productivity in iron-limited surface oceans. *Nature microbiology*, 8(11), 2050.

Di Franco A, et al. (2022) Lower Statistical Support with Larger Data Sets: Insights from the Ochrophyta Radiation. *Molecular biology and evolution*, 39(1).

Kim D, et al. (2022) Group II intron and repeat-rich red algal mitochondrial genomes demonstrate the dynamic recent history of autocatalytic RNAs. *BMC biology*, 20(1), 2.

Gill RL, et al. (2022) Predictability of thermal fluctuations influences functional traits of a cosmopolitan marine diatom. *Proceedings. Biological sciences*, 289(1973), 20212581.

Helliwell KE, et al. (2021) A Novel Ca^{2+} Signaling Pathway Coordinates Environmental Phosphorus Sensing and Nitrogen Metabolism in Marine Diatoms. *Current biology : CB*, 31(5), 978.

Jain A, et al. (2021) Engineering lithoheterotrophy in an obligate chemolithoautotrophic Fe(II) oxidizing bacterium. *Scientific reports*, 11(1), 2165.

Nelson DR, et al. (2021) Large-scale genome sequencing reveals the driving forces of viruses in microalgal evolution. *Cell host & microbe*, 29(2), 250.