

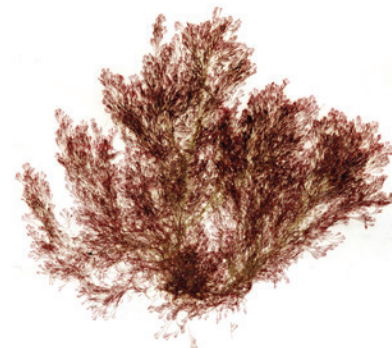
In this issue

Jeffery R. Hughey and Ga Hun Boo
Genomic and phylogenetic analysis of *Ceramium cimbrium* (Ceramiales, Rhodophyta) from the Atlantic and Pacific Oceans supports the naming of a new invasive Pacific entity *Ceramium sungminbooi* sp. nov.

DOI 10.1515/bot-2016-0036
Botanica Marina 2016; 59(4): 211–222

Research article: Genomic and phylogenetic analysis of *Ceramium cimbrium* (Ceramiales, Rhodophyta) from the Atlantic and Pacific oceans supports the naming of a new invasive Pacific entity *Ceramium sungminbooi* sp. nov.

Keywords: Ceramiaceae; genome; invasive; phylogenetics; taxonomy.



Karl Gunnarsson, Svanhildur Egilsdóttir, Ruth Nielsen and Juliet Brodie
A collections-based approach to the species and their distribution based on the bladed Bangiales (Rhodophyta) of Iceland

DOI 10.1515/bot-2016-0037
Botanica Marina 2016; 59(4): 223–229

Research article: Distribution maps are created from herbarium collections, combining morphology and molecular analysis. Arctic species are only found in the cold waters at the east coast while some Atlantic species are restricted to the warmer waters in the SW.

Keywords: *Boreophyllum*; key to genera; North Atlantic; *Porphyra*; *Pyropia*; *Wildemania*.

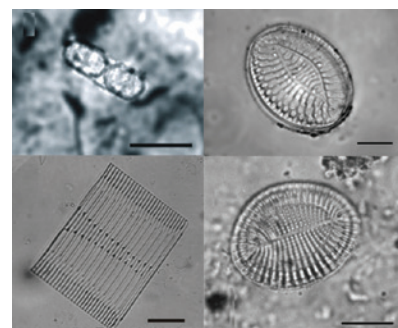


Manoel Messias da Silva Costa, Sonia Maria Barreto Pereira, Maria da Glória Gonçalves da Silva-Cunha, Patrícia Campos de Arruda and Enide Eskinazi-Leça
Community structure of epiphytic diatoms on seaweeds in Northeastern Brazil

DOI 10.1515/bot-2015-0014
Botanica Marina 2016; 59(4): 231–240

Research article: Diatoms associated with three species of seaweeds are reported from the subtidal zone of Northeastern Brazil. Motile diatoms showed the highest number of species, *Melosira moniliformis* (erect), *Rhabdonema adriaticum* (erect), *Cocconeis scutellum* (adnate) and *Surirella fastuosa* (motile) were most abundant.

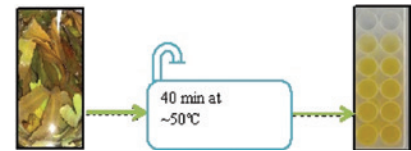
Keywords: abundance; Brazil; epiphytic diatoms; growth forms; subtidal.



Tarha Westby, Geraldine Duignan,
Thomas Smyth and Aodhmar Cadogan
**Method validation and determination
of total iodine in seaweed bathwater**

DOI 10.1515/bot-2016-0029
Botanica Marina 2016; 59(4): 241–249

Research article: Bathing in hot baths containing *Fucus serratus* L. is a traditional holistic therapy. This study explores the concentration of iodine released into the bathwater. The iodine was measured using an adapted micromethod based on the Sandell-Kolthoff (SK) reaction.

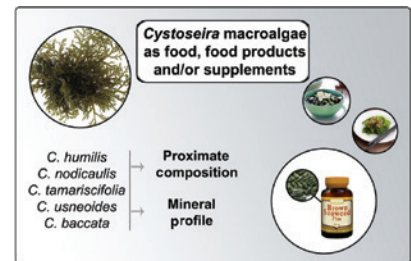


Keywords: *Fucus serratus*; iodine; Sandell-Kolthoff (SK); seaweed bath.

Catarina Vizetto-Duarte, Luísa Custódio, Luísa Barreira, Manuela Moreira da Silva, Amélia P. Rauter, Fernando Albericio and João Varela
Proximate biochemical composition and mineral content of edible species from the genus *Cystoseira* in Portugal

DOI 10.1515/bot-2016-0014
Botanica Marina 2016; 59(4): 251–257

Research article: *Cystoseira* are nutritious brown macroalgae, rich in lipids and microminerals, such as iron. They present a favorable Na/K ratio and a composition suitable for human consumption, which suggests that their intake could contribute to a well-balanced, healthy diet.



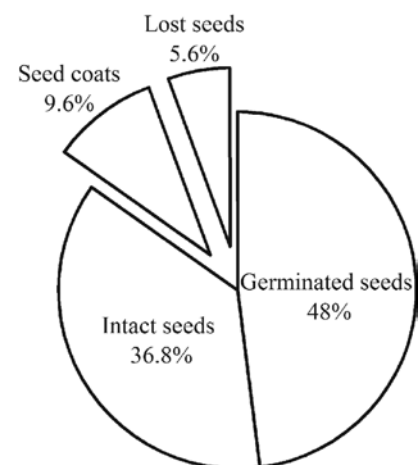
Keywords: brown algae; *Cystoseira*; minerals; nutritional profile; proximate composition.

Jian-Sheng Zhao, Yan-Shan Liu, Pei-Dong Zhang, Wen-Tao Li and Chao Fang
Assessment of the establishment success of eelgrass *Zostera marina* (Alismatales: Zosteraceae) from seeds in a cost-effective seed protection method: implications for large-scale restoration

DOI 10.1515/bot-2016-0028
Botanica Marina 2016; 59(4): 259–266

Research article: Seed bags not only prevent seeds from settling within an unsuitable habitat, but they also prevent deep seed burial, predation, and losses; high percent retention of seeds will increase seeding effectiveness in large-scale restoration projects.

Keywords: cost; protective bag; restoration; seedling establishment; *Zostera marina*.

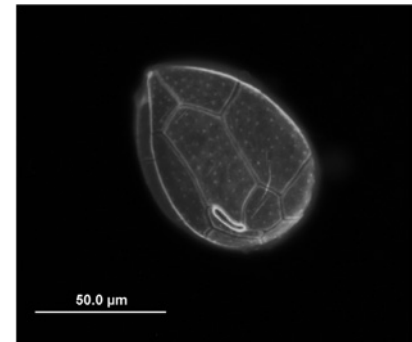


Olga Carnicer, María García-Altare, Karl B. Andree, Jorge Diogène and Margarita Fernández-Tejedor
First evidence of *Ostreopsis* cf. *ovata* in the eastern tropical Pacific Ocean, Ecuadorian coast

DOI 10.1515/bot-2016-0022
 Botanica Marina 2016; 59(4): 267–274

Research article: Thirteen isolates of *Ostreopsis* cf. *ovata* from Ecuador were non-toxic and cluster in the Atlantic/Indian/Pacific clade. Information on toxicity and molecular biology of other *O.* cf. *ovata* strains, which contributes to understanding the species complex, is reviewed.

Keywords: genetic clade; *Ostreopsis* cf. *ovata*; phylogeny; taxonomy; toxin profile.

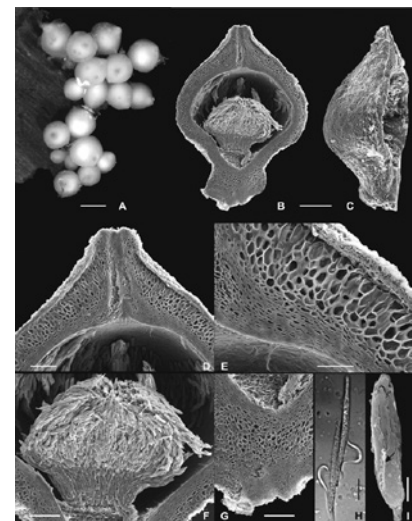


Joëlle Dupont and Enrico Schwabe
First evidence of the deep-sea fungus *Oceanitis scuticella* Kohlmeyer (Halosphaeriaceae, Ascomycota) from the Northern Hemisphere

DOI 10.1515/bot-2016-0030
 Botanica Marina 2016; 59(4): 275–282

Research article: Morphological peculiarities and slight genetic variance of a recently discovered collection of *Oceanitis scuticella* from the North Pacific Ocean demonstrate the intraspecific variability of this wood-associated deep-sea fungus.

Keywords: deep sea; distribution; genetics; Halosphaeriaceae; morphology.



Gloria M. Parada, Florence Tellier and Enrique A. Martínez
Spore dispersal in the intertidal kelp *Lessonia spicata*: macrochallenges for the harvested *Lessonia* species complex at microscales of space and time

DOI 10.1515/bot-2016-0034
 Botanica Marina 2016; 59(4): 283–289

Short communication: Dispersal of spores of *Lessonia spicata* was shown to be extremely limited in both space and time, and this seems relevant for understanding the high genetic diversity, slow recovery after massive mortality events, and cryptic speciation within this species complex.

Keywords: Laminariales; seaweeds; settlement; spore attachment.

