

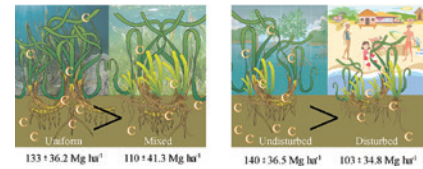
## In this issue

Milica Stankovic, Naruemon Tantipisanuh and Anchana Prathep

### Carbon storage in seagrass ecosystems along the Andaman coast of Thailand

<https://doi.org/10.1515/bot-2017-0101>  
Botanica Marina 2018; 61(5): 429–440

**Research article:** Organic carbon storage in seagrass meadows in Thailand is influenced by meadow type (uniform meadows support higher storage than mixed meadows), and by disturbance (undisturbed meadows store higher amounts of organic carbon than disturbed meadows).

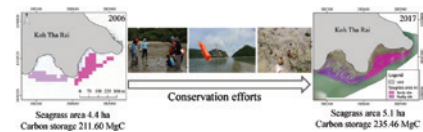


**Keywords:** blue carbon; carbon sink; marine vegetation; Southeast Asia.

Ekkalak Rattanachot, Milica Stankovic, Supaphon Aongsara and Anchana Prathep  
**Ten years of conservation efforts enhance seagrass cover and carbon storage in Thailand**

<https://doi.org/10.1515/bot-2017-0110>  
Botanica Marina 2018; 61(5): 441–451

**Research article:** The results of this work showed the importance of seagrass conservation in Thailand during the last 10 years (2006–2017), organized by various sectors through many activities, which increased seagrass coverage, meadow extension and organic carbon storage.

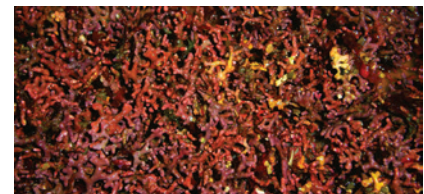


**Keywords:** carbon; conservation; seagrass monitoring; sediment; Thailand.

Sara P. Cobacho, Luis Navarro, Nuria Pedrol and José M. Sánchez  
**Shading by invasive seaweeds reduces photosynthesis of maerl from the Ría de Vigo (NW Spain)**

<https://doi.org/10.1515/bot-2018-0004>  
Botanica Marina 2018; 61(5): 453–457

**Short communication:** The photosynthetic efficiency ( $F_v/F_m$ ) of maerl decreased concomitantly with the decrease in natural irradiance and with the increase of shading level imposed by invasive algal species.



**Keywords:** biological invasion; fluorescence; light stress; maerl beds.

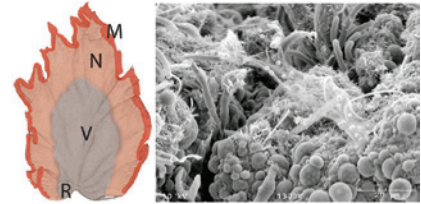
Charlotte J. Royer, Nicolas A. Blouin  
and Susan H. Brawley

**More than meets the eye: regional specialisation and microbial cover of the blade of *Porphyra umbilicalis* (Bangiophyceae, Rhodophyta)**

<https://doi.org/10.1515/bot-2018-0065>  
Botanica Marina 2018; 61(5): 459–465

**Short communication:**

Anatomy of the *Porphyra* blade (left panel) including mature spores (M), developing neutral spores (N), central vegetative area (V), and rhizoid cells in holdfast (R); diverse microorganisms covering the holdfast of a wild blade (right panel).



**Keywords:** algal SEM; floridean starch; holdfast; microbial architecture; rhizoid.

Richard V. Dumilag and Sandra L. Yap  
***Pyropia lunae* sp. nov. and *Pyropia islae* sp. nov. (Bangiales, Rhodophyta) from the Philippines**

<https://doi.org/10.1515/bot-2018-0024>  
Botanica Marina 2018; 61(5): 467–480

**Research article:** *Pyropia lunae*

Dumilag sp. nov. (left) and *Pyropia islae* Dumilag sp. nov. (right) are two new foliose Bangiales species found in the Batanes Islands, northern Philippines.



**Keywords:** DNA sequencing; foliose Bangiales; morphology and anatomy; taxonomy.

Michael J. Wynne  
**A checklist of the benthic marine algae of the Northern Arabian Sea coast of the Sultanate of Oman**

<https://doi.org/10.1515/bot-2018-0035>  
Botanica Marina 2018; 61(5): 481–498

**Research article:** An updated checklist of the seaweeds of the Northern Arabian Sea coast of Oman is presented, with a total of 402 taxa, consisting of 75 taxa of brown algae, 237 taxa of red algae, and 90 taxa of green algae.



**Keywords:** Arabian Sea; benthic algae; checklist; Oman.

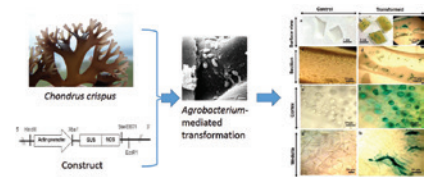
Anusha Devi Ramessur, John H. Bothwell, Christine A. Maggs, Sook Yee Gan and Siew Moi Phang

**Agrobacterium-mediated gene delivery and transient expression in the red macroalga *Chondrus crispus***

<https://doi.org/10.1515/bot-2018-0028>  
 Botanica Marina 2018; 61(5): 499–510

**Research article:** Successful transient expression of *GUS* gene detected by histochemical staining in *Chondrus crispus* subjected to *Agrobacterium*-mediated transformation.

**Keywords:** algal biotechnology; gene engineering; genetic transformation; transformed algae; transgenic algae.



Fangjun Wang, Yan Lv, Lichun Lin, Nianjun Xu, Kaixing Lu and Xue Sun  
**Characterization of a respiratory burst oxidase homolog from *Gracilariopsis lemaneiformis* (Rhodophyta) during stress and phytohormone treatments**

<https://doi.org/10.1515/bot-2018-0013>  
 Botanica Marina 2018; 61(5): 511–519

**Research article:** A respiratory burst oxidase homolog from the red macroalga *Gracilariopsis lemaneiformis* (Glrboh), displayed significant changes at the levels of transcription, protein and enzyme activity in response to high salinity, high temperature and abscisic acid treatment.

**Keywords:** *Gracilariopsis lemaneiformis*; heat stress; phytohormone; respiratory burst oxidase homolog (rboh); salt stress.

