

Special Issue

Algae Biomass Development for the Production of High-Value Products In Vivo and In Vitro

Message from the Guest Editor

The technological and commercial exploitation of microalgae and Cyanobacteria biomass for the production of high value products (biofuel, bio fertilizers, pharmaceuticals, nutraceuticals and other bio-based products) has been partly explored and is still in high demand; the same accounts for the marine macroalgal assemblages. Therefore, the Algae Production Industry in Europe has proved to be an emerging sector of the blue bio-economy. However, sound knowledge of the algae biodiversity and community composition in various aquatic biotopes (freshwaters, transitional waters, and marine and hypersaline habitats) is necessary for both the pure systematic and ecological interest, as well as for the selection of local variants or native species. Emphasis on these local taxa would allow sound monitoring for optimized biomass development in cultures and for the production of specific co-products with higher scientific or commercial value (e.g. secondary metabolites, nutritional fatty acids, etc).

Guest Editor

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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