

Special Issue

Advanced Research on Algae Biology

Message from the Guest Editor

Algae (including microalgae, macroalgae and cyanobacteria) are considered a promising feedstock for sustainable, large-scale production of commodities such as food, feed, chemicals, materials and biofuels. Nitrate assimilation is a key process for nitrogen (N) acquisition in green microalgae. Among Chlorophyte algae, *Chlamydomonas reinhardtii* has resulted to be a good model system to unravel important facts of this process and has provided important insights for agriculturally relevant plants. For all the interest, understanding the genomic, metabolic and culture features is of great significance in the application and development of algal biomass.

We welcome manuscripts describing the most recent advances in the areas of basic algae biology discussing novelties in the essential cellular processes. Topics can broadly cover studies in selection and breeding, molecular traits, metabolic regulation, physiology and biochemistry, biomass and bioproducts, and alga crop protection, including the recent findings on nitrate transport, nitrate reduction and the regulation of nitrate assimilation.

Guest Editor

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