

Special Issue

Epigenetics, Ecology and Evolution in Algae

Message from the Guest Editors

Epigenetic mechanisms have been extensively investigated in plant and animal genomes, yielding insightful findings into genome regulation and impacts on cell homeostasis, development, diseases and even evolution, in particular from population epigenomics studies. Despite the growing interest in epigenetics and the development of sequencing technologies, knowledge on these processes remains scarce in species outside animals and plants, in particular microbial eukaryotes such as stramenopiles, rhizaria, alveolates and ciliates. Considering the position of these species in the tree of life, investigating their epigenome will help to understand the evolutionary origins of epigenomic components and mechanisms as well as their role in evolution and speciation. This Special Issue welcomes original research, review, and methodology papers on the epigenetics of model and non-model organisms from protist lineages using multidisciplinary approaches and/or high-throughput technologies to investigate processes such as cell differentiation, sexual reproduction, development, stress response, acclimation and adaptation to the environment.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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