

Special Issue

Production of Recombinant Molecules in Algal Chloroplasts

Message from the Guest Editor

The algal chloroplast represents an attractive sub-cellular target as it possesses a small genetically tractable genome, and is able to serve as a storage compartment for proteins, polymers and lipids.

Furthermore, the GRAS status of key microalgal species makes possible the idea of whole cell therapeutics in which live or dried cells serve as bioencapsulation devices for oral delivery of bioactive compounds.

Although the model species *Chlamydomonas reinhardtii* is the most developed platform for algal chloroplast transgenics, the technology is now spreading to other industrially relevant species. It is, therefore, timely to launch this Special Issue, and I invite original reports or review articles covering basic or applied topics in the field—for example, methodologies for genetic engineering of algal chloroplasts (using either chloroplast or nuclear transformation approaches), novel recombinants produced in the algal chloroplast, and new biotechnological applications of engineered strains.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2023)



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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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