



biology



an Open Access Journal by MDPI

Microalgal Biotechnology

Guest Editors:

Prof. Dr. Saul Purton

Institute of Structural and
Molecular Biology, Darwin
Building, University College
London, Gower Street, London
WC1E 6BT, UK

Dr. Brenda Parker

Department of Biochemical
Engineering, University College
London, London, UK

Deadline for manuscript
submissions:

closed (31 March 2018)

Message from the Guest Editors

Dear Colleagues,

There is a growing interest in the opportunities that microalgae and cyanobacteria offer in industrial biotechnology as light-driven platforms for the production of valuable bio-products. These range from bulk products such as biofuels and animal feeds to high-value compounds for the cosmetics, nutraceutical and pharmaceutical sectors. The extreme diversity amongst these phototrophic microorganisms provides a rich vein of novel compounds and biochemical pathways, although such bioprospecting is still in its infancy. Furthermore, the development of genetic engineering technologies for various platform species opens the door to domesticated or ‘designer’ strains with enhanced productivity of natural compounds, or low-cost synthesis of recombinant products including therapeutic proteins or bioactive metabolites. This special issue invites original research papers and reviews that cover all aspects of the field — from strain characterization and genetic enhancement, to cultivation technologies and downstream processing.

Prof. Saul Purton

Dr. Brenda Parker

Guest Editors



mdpi.com/si/10176

Special Issue



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in
Molecular and Integrative
Biosciences, Faculty of Biological
and Environmental Sciences,
University of Helsinki, P.O. Box
56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology
Institute, University of Valencia
and CSIC, 46980 Valencia, Spain

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Biology*) / CiteScore - Q1 (*General Agricultural and Biological Sciences*)

Contact Us

Biology Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biology
biology@mdpi.com
X@Biology_MDPI