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Genetic Engineering of Microalgae

Guest Editor:

Prof. Dr. Armin Hallmann

Department of Cellular and
Developmental Biology of Plants,
University of Bielefeld, 33615
Bielefeld, Germany

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submissions:

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Message from the Guest Editor

Dear Colleagues,

Microalgae provide a wide variety of biomolecules, cellular functions, and physiological characteristics not least due to the great species diversity and the different living conditions within this polyphyletic group of photosynthetic microorganisms. These and other reasons mean that microalgae are common target organisms for genetic modification, ranging from basic research to commercial biotechnological applications. Recent developments in genetic engineering of microalgae have been supported by rapid advances in omics technologies and an increase in methods and tools for gene manipulation, vector construction, transformation, and selection.

This Special Issue welcomes both reviews and original articles on the genetic engineering of microalgae. Possible contents include but are not limited to systems biology and omics technologies in relation to genetic engineering of microalgae (e.g., genomics, transcriptomics, proteomics, metabolomics), key tools or elements of genetic engineering and the application of genetic engineering in basic research and industry.



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Special Issue



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Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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