

Special Issue

Design and Validation of Tools for Microbial Synthetic Biology Applications

Message from the Guest Editors

The successful implementation of SB applications using microorganisms as chassis largely relies on the existing toolboxes that need to be custom-built since the performance of biological parts and tools is organism-dependent. The forthcoming Special Issue of *Life* includes reviews, original research manuscripts, and short communications focusing on the design and validation of tools for microorganisms, including the universal chassis *Escherichia coli*, *Bacillus subtilis* and *Sacharomyces cerevisiae*, also extended to other bacteria (e.g., *Streptomyces* and *Cyanobacteria*) and microalgae. In addition, special emphasis will be given to the validation of biological parts (e.g., regulatory elements), genome-editing tools as well as prediction tools (e.g., genome-scale metabolic models) and computer-aided design (CAD) tools. Papers focusing on the development of cloning suites or high-throughput validation methods are also welcome.

Guest Editors

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Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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