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Design and Validation of Tools for Microbial Synthetic Biology Applications

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Deadline for manuscript submissions:

closed (15 October 2020)

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 organismdependent. 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 cerevisae, 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.













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Message from the Editor-in-Chief

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