



Special Issue on Synthetic Biology and Bioengineering

Call for Papers

Synthetic Biology and Bioengineering integrates engineering principles with molecular biology, genetics, and biotechnology to design, construct, and optimize biological systems for research, industrial, environmental, and medical applications. It encompasses the development of synthetic genetic circuits, engineered microorganisms, biomolecular devices, metabolic pathway engineering, and cell-based technologies to produce valuable biomolecules, improve human health, and address global challenges. By combining advances in systems biology, computational modeling, genome engineering, and bioprocess design, this field drives innovation in biomanufacturing, sustainable production, precision medicine, environmental remediation, and next-generation biotechnology.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **Synthetic Biology and Bioengineering**. Potential topics include, but are not limited to:

- Synthetic biology
- Genetic circuit design
- Genome engineering
- Metabolic engineering
- Protein engineering
- Cell engineering
- Microbial engineering
- Systems biology
- Computational biology
- Biomolecular engineering
- Bioprocess engineering
- Metabolic pathway design
- Artificial cells
- Biosensor engineering
- Industrial biotechnology
- Biomedical engineering

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).



Please kindly specify the “**Special Issue**” under your manuscript title. The research field “**Special Issue - *Synthetic Biology and Bioengineering***” should be selected during your submission.

Special Issue Timetable:

Submission Deadline	October 15th, 2026
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