

Special Issue

Novel Biotechnology for Biofuel and Bioenergy Production and Products

Message from the Guest Editors

The whole world is seeking sustainable solutions to meet its energy needs. Biofuels and bioproducts, derived from renewable biological resources, offer a greener alternative to traditional energy sources. Furthermore, advancements in biotechnology have created new opportunities for the production of bioenergy and bioproducts. This Special Issue of *Biology* titled **"Novel Biotechnology for Biofuel and Bioenergy Production and Products"** aims to collate recent advances and insights in biotechnology from this field of research. **Topics of interest include, but are not limited to:**

1. Application of new biotechnology to crop species.
2. Multi-omics analysis, for example, genomic, transcriptomic, and proteomic studies.
3. Association studies, such as GWAS, TWAS.
4. Identification of important genes and/or pathways contributing to biofuel and bioenergy production.
5. Research on preparing biofuel crops for global climate change.
6. Studies on newly domesticated biofuel bioenergy species.
7. Synthetic biology engineering microorganisms or plants.
8. Supply chain and biofuel downstream processing.
9. The use of AI to facilitate bioenergy and bioproducts improvement.

Guest Editors

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About the Journal

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.

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