



Biotechnology for Biofuel and Biomass Production

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Deadline for manuscript
submissions:
closed (10 October 2023)

Message from the Guest Editors

Biofuels are emerging as the most important alternative to petroleum-derived transportation fuels, and biomass is the primary source of renewable energy for their production. The main advantages of producing and using the biofuels of biomass are that these raw materials are generally available in many different areas of the world, which reduces dependence on a single exhaustible energy source such as petroleum, generating low net greenhouse gas emissions, and therefore, minimizing the environmental impact. In this context, a key role is played by the second- and third-generation raw materials with the application of biotechnology, bioengineering, and genetics, in order to improve plant, algae, and other carbonaceous feedstocks, as well as microorganisms involved in the process, all of which are within the bioconversion systems developed at different levels of integration.

In this Special Issue of *Applied Sciences*, articles focusing on all areas considering biotechnology for biofuel and biomass production are welcome.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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