

Special Issue

Production and Application of Microbial Lignocellulose–Degrading Enzymes

Message from the Guest Editors

Within the framework of a sustainable circular economy, cellulolytic enzymes play a key role through their conversion of lignocellulosic plant biomass, allowing for successful applications in biorefineries. Microbial biodiversity offers a wealth of opportunities in screening for new robust lignocellulose-degrading enzyme activities. In this respect, metagenomic approaches are used to assess the microbial communities in unexplored environments as a potential reservoir of novel genes. In this Special Issue, we invite submissions exploring:

- Molecular mechanisms of cellulase gene regulation and expression;
- Metagenomic studies for the identification of novel cellulases;
- Fermentative strategies for the production of lignocellulose-degrading enzymes;
- Lignocellulose-degrading enzymes and their application to bioprocesses.

We are looking forward to receiving your contribution.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2021)



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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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