Special Issue

Microbial Fuel Cells: An Update

Message from the Guest Editor

Microbial Fuel Cells (MFCs) have emerged at the confluence of biotechnology and energy research, offering a sustainable and innovative method for energy production. The principles behind MFCs rely on the intriguing ability of certain microorganisms to directly transfer electrons to an electrode, thereby generating an electrical current during their metabolic processes. As we delve deeper into the mysteries of these unique microbes and refine the technology, MFCs not only present a potential solution for sustainable energy generation, but also open doors to wastewater treatment, biosensing, and many other applications. In this Special Issue of *Microorganisms*, our primary focus is on the microbiological dimension of MFCs. Topics of interest include, but are not limited to:

- Electrogenic Microorganisms in MFCs
- Microbial Interactions
- Ecology of MFCs
- Challenges and Frontiers

Guest Editor

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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