Special Issue

Genomics of Marine and Aquatic Bacteria: A Focus on Novel Taxa, Diversity and Biotechnological Potential: 2nd Edition

Message from the Guest Editor

The current issue is a continuation of the Special Issue "Genomics of Marine and Aquatic Bacteria: A Focus on Novel Taxa, Diversity and Biotechnological Potential". Marine and aquatic bacteria represent an enormous portion of biodiversity and are a valuable bioprospecting source in the search for novel bioactive compounds, functional food ingredients, and polymers. Our knowledge regarding the bacterial world has been greatly advanced by exploring bacterial genome sequences, especially in bacterial systematics, genetic diversity, and microbial evolution. Advances in genomics promote the application of genetic information of bacteria in virtually unlimited areas. To describe new taxa, environmental microbiologists have to combine culture-dependent studies with genome sequence analyses. Research on bacteria recovered from underexplored, remote, and extreme environments, such as arctic seas, the deep sea, or underground waters and sediments, is a challenge for understanding microbial diversity, its conservation, and further biotechnological use. We firmly believe that new taxa will result in new genes, new knowledge, and new opportunities.

Guest Editor

Dr. Alexander Machado Cardoso
Department of Biology, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil

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Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

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"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.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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