

Special Issue

Extremophilic Microorganisms for Environmental and Industrial Applications

Message from the Guest Editors

Extremophilic microorganisms are a largely unexplored group able to thrive in extreme conditions like extreme temperature, pH, salinity pressure, and elevated concentration of heavy metals and other toxic compounds. Some of these microbes represent the most ancient life forms, and their study helps to know more about the origin and the limits of life. In order to thrive in such hostile conditions and to adapt to changing environmental conditions, they have developed suitable genetic and metabolic machineries that are being extensively exploited to perform exclusive tasks in biotechnological research. For example, they can provide stable enzymes for several industrial applications, and can be used for biodegradation and bioremediation in extreme habitats, or as sources of biofuel and bioenergy. Therefore, these microbes and their metabolites are expected to be important players to achieve the goals of sustainability and bio-based economy. We welcome the submission of papers addressing these topics to this Special Issue, including those focusing either on basic research or those providing examples of the application of extremophiles in environmental or industrial biotechnology.

Guest Editors

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Deadline for manuscript submissions

closed (1 March 2022)



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About the Journal

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

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