

Special Issue

Extreme Microorganisms in the Nitrogen Cycle

Message from the Guest Editors

The nitrogen cycle is one of the most important biogeochemical cycles on the planet and involves a wide range of nitrogen species and biochemical transformations. Microorganisms play a key role in this cycle. Recent investigations have revealed that N-cycle is relevant in marine and other extreme environments like salterns, very dry deserts, volcanoes, deep ocean trenches or upper atmosphere. Articles (original research, commentaries, opinions, reviews) to be published in this Special Issue of *IJMS* should contribute to understanding the role of moderate and extreme microbes in the N-cycle from interdisciplinary approaches. Topics include, but are not limited to:

- N-cycle pathways (biochemical, molecular biology, microbiological, ecological approaches)
- Nitrogen assimilation, fixation and respiration
- Nitrogenous gasses emissions and climate change
- Ammonification/nitrification
- Dissimilatory nitrate reduction to ammonia
- Anammox and denitrification

Guest Editors

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The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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