



Extreme Microorganisms in the Nitrogen Cycle

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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 and 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 gases emissions and climate change
- Ammonification/nitrification
- Dissimilatory nitrate reduction to ammonia
- Anammox and denitrification





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Message from the Editor-in-Chief

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