Special Issue

Nitrogen Cycling and Bacterial Community

Message from the Guest Editor

Nitrogen cycling defines the biogeochemical process in which nitrogen is transformed into various forms, passing from the atmosphere to the soil, to the organism, and back to the atmosphere.

Microorganisms play a crucial role in N-cycling and regulate the soil N available to plants. The important process of autotrophic nitrification transforms the ammonium oxidation into nitrite and is driven by the process of ammonia oxidizing bacteria and archaea. Various studies have found that microbial community abundancy in plant canopies is due to higher N-concentrations, which increases the plant letter. Moreover, changes in the microbial utilization of nitrogen can also change the bacterial community structure.

To understand the interrelationship between bacterial community and nitrogen cycling, detailed study is needed at the bacterial species level. In addition, the keystone bacterial genus and species involved in N-cycling in soil should be identified and introduced at a holistic level.

This Special Issue will cover broad topics that touch the areas of bacterial community composition and diversity and their roles in N-cycling in different land use types.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Nitrogen, the element that is intimately associated with essentially all processes on Earth, is the broad focus of a new online, open access journal. The intention of this publication is to offer a venue for research papers, reviews, short notes, and communications that have as a nexus this critical element.

Editor-in-Chief

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