

Special Issue

Dynamics of the Forest Soil Microbiome in Response to Disturbances

Message from the Guest Editors

Forest soil microbiota is an important mediator of biogeochemical process and plays key roles in the environmental ecosystem. It contributes to a range of essential soil processes involved in the cycling of carbon, nitrogen, and phosphorus. Forest soil microbiota is responsive to the effects of global change, such as climate warming, drought, anthropogenic nitrogen as well as heavy metal, antibiotic, and microplastic contamination. However, these responses often reflect the specificities of each studied forest ecosystem, and the full incorporation of microbes into predictive models is lacking. The understanding of microbial ecology in forest soils has advanced greatly recently, but it remains incomplete. Therefore, elucidating the dynamics of forest soil microbial communities after various disturbances is crucial for understanding ecosystem restoration and sustainability. This Special Issue will cover some advances in changes of forest soil microbiome in response to various disturbances and novel findings that contribute to developing a comprehensive understanding of the roles of the microbiota in forest soils during disturbances.

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