



Biodiversity in Terrestrial Ecosystems

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Message from the Guest Editor

This Special Issue is focused on biodiversity in terrestrial ecosystems. Biodiversity is pivotal for ecosystem health and sustainability, and supports most of our development, from raw materials to food production. However, terrestrial ecosystems are under unprecedented stress, posed by habitat loss, fragmentation, and land-use changes due to anthropogenic disturbance and climate change. Previous research indicates that terrestrial ecosystems are highly sensitive to temperature change and suggests that, without major reductions in greenhouse gas emissions to the atmosphere, terrestrial ecosystems worldwide are at risk of major transformations. This can lead to knock-on effects for local, regional, and global biogeochemical cycles. The lack of data on species-rich organisms remains a major problem in addressing the challenge of global biodiversity loss. Fortunately, environmental DNA and metabarcoding are important tools used for cross-taxon biodiversity monitoring, aiding the understanding of species ecological roles and the mechanisms through which they influence ecosystem functions.





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