



## Past Plant Diversity Changes

Guest Editors:

**Dr. Laura Parducci**

Department of Ecology and Genetics, Plant Ecology, Uppsala University, SE-75236 Uppsala, Sweden

**Dr. Rachid Cheddadi**

Institute of Evolutionary Sciences (ISEM), University of Montpellier, 34000 Montpellier, France

**Prof. Keith Bennett**

School of Geography & Sustainable Development, University of St Andrews, Scotland KY16 9AL, UK

Deadline for manuscript submissions:

**closed (15 April 2019)**

### Message from the Guest Editors

This Special Issue aims to examine the relationship between past environmental changes and their impacts on different aspects of plants species diversity during the glacial-interglacial climate changes of the Quaternary.

Natural past climate trends have driven major ecosystem changes and have shaped species distributions across the planet. Modern and future changes in diversity will be driven by complex interactions between human activities and the global climate system. In this modern context, plant species have to evolve locally or migrate to more suitable habitats. The past can provide us with fascinating information on how species reacted to different climatic situations, which could enlighten us about how to successfully manage future plant species diversity.

Contributions exploring the relationship between past environmental changes (including climate) and species distributions, their long-term survival and persistence in macro and microrefugia during climatically unfavorable time periods, their migration capacity and rates to recolonize available areas, their genetic diversity, and the lessons we can draw from the past to help conserving plant species are welcome.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Jef Vandenberghe

Department of Earth Sciences,  
VU University, De Boelelaan 1085,  
1081 HV Amsterdam, The  
Netherlands

## Message from the Editor-in-Chief

We live in a Quaternary world, that is, a world shaped by the interplay of the different compartments of the earth system—lithosphere, hydrosphere, atmosphere, biosphere, cryosphere—during the last ~2.6 million years. It is not possible to understand the current world—and, hence, to anticipate its possible future developments—without knowing the Quaternary history of drivers, processes, and mechanisms that have generated it. Our own species is an evolutionary outcome of the Quaternary performance. Therefore, the journal *Quaternary* is born with the aim of being an integrative journal to encompass all aspects of Quaternary science focused on understanding the complex world in which we live and to provide a sound scientific basis to anticipate possible future trends and inform environmental policies.

## Author Benefits

**Open Access :** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [GeoRef](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Geosciences, Multidisciplinary*) / CiteScore - Q2 (*Earth-Surface Processes*)

## Contact Us

---

Quaternary Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/quaternary](http://mdpi.com/journal/quaternary)  
[quaternary@mdpi.com](mailto:quaternary@mdpi.com)  
[X@Quaternary\\_MDPI](#)