

Special Issue on
**Genetic Diversity in Plants and Its Implications in
Management and Conservation**

CALL FOR PAPERS

Genetic diversity has been studied for many decades in all types of organisms. Moreover, accurate estimates of genetic diversity are useful for optimizing sampling strategies and for conserving and managing the genetic resources of plants. However, in the past years, diverse processes including global climatic changes and anthropogenic activities are affecting plant species and causing habitat fragmentation with a subsequent loss of variability.

The habitat fragmentation effect on genetic diversity and biodiversity is a topic of concern since the modification of natural habitats as a result of anthropogenic activities, modern agriculture systems, and inappropriate resource management leads to a faster and continuous erosion of the variability and desertification of many areas of the world, which is one of the greatest environmental concerns currently affecting humanity. The fragmentation and perturbation of the environment could lead to genetic changes with adverse implications for the survival of different species. These changes include isolation, lower gene flow and higher genetic differentiation among populations, loss of variation, and higher genetic erosion within populations because of inbreeding effects. As a consequence, the analysis of the distribution of genetic variation is important in the area of conservation of germplasm and its management because it suggests the minimum number of populations needed to preserve the most part of the genetic diversity of each species and what populations are the most informative ones of the species.

The aim of this special issue is to attract original research articles on genetic diversity, population structure dynamics, and mating systems related to ecological, climatic, or geographical variables and/or studies comparing populations with different levels of habitat perturbation in any plant species. Also, reviews describing the present state of the art are welcome. Topics include studies in any plant species, from grasses to forest trees, covering all range of distribution of them.

Potential topics include but are not limited to the following:

- ▶ Genetic variability
- ▶ Population genetics including genetic structure analysis based on molecular markers and/or morphological traits
- ▶ Landscape genetic structure
- ▶ Mating systems
- ▶ Fine-scale spatial genetic structure (SGS)
- ▶ Relationship of population genetics parameters and ecological/climatic/geographical variables

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/scientifica/ecology/gdpim/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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