



an Open Access Journal by MDPI

Application of Biotechnology Techniques on Tree Species

Guest Editors:

Dr. Jorge Canhoto

Department of Life Sciences, Centre for Functional Ecology, University of Coimbra, Calçada Martim de Freitas, 3000-456 Coimbra, Portugal

Dr. Paloma Moncaleán

Department of Forestry Science, NEIKER-BRTA, 01080 Arkaute, Spain

Dr. Sandra Correia

Department of Life Sciences, Centre for Functional Ecology, University of Coimbra, Calçada Martim de Freitas, 3000-456 Coimbra, Portugal

Deadline for manuscript submissions: closed (25 February 2022)



Message from the Guest Editors

In recent years, biotechnology is assuming an increasingly important role in tree breeding and cloning, through the application of techniques such as somatic embryogenesis, propagation in bioreactors, genetic transformation, proteomics, genomics, and production of synthetic seeds, among many others. Based on these tools, improved trees displaying new features are now in the field assuring higher productivities and helping to preserve natural forests while contributing to fix CO2 and to avoid desertification, both from an ecological and human perspective. This Special Issue will keep researchers and other stakeholders on the cutting edge of the latest developments in the field of tree biotechnology. Those interested in tree biotechnology are welcome to collaborate and share their more recent results in this field.

Keywords

acclimatization bioreactors breeding cloning genetic transformation in vitro molecular biology omics rooting







an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Message from the Editorial Board

Forests (ISSN 1999-4907) is an international and crossdisciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access.

Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

Contact Us

Forests Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/forests forests@mdpi.com X@Forests_MDPI