

1. Record Nr.	UNINA9910298346103321
Titolo	Biotechnology and Biodiversity / / edited by M. R. Ahuja, K.G. Ramawat
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-09381-9
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (344 p.)
Collana	Sustainable Development and Biodiversity, , 2352-474X ; ; 4
Disciplina	333.9511
Soggetti	Biodiversity Conservation biology Ecology Plant breeding Trees Plant genetics Conservation Biology/Ecology Plant Breeding/Biotechnology Tree Biology Plant Genetics and Genomics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Section A. Genetically Modified Plants and Biodiversity -- 1. Transgenic Crops to preserve Biodiversity; C. Emani -- 2. Genetically modified Crops in Africa; G.D. Arthur, K.S. Yobo -- 3. Agriculture and Environmental Impacts of Glyphosate-tolerant Soybean Cultivation in Romania; E.M. Badea, P.I. Otiman -- 4. The Effects of Transgenic Crops on Non-target Organisms; C. Emani -- 5. Agricultural Biotechnology for Health and the Environment; S.O. Hansson -- 6. Next Generation Plant Biotechnology; M.R. Ahuja -- Section B. Biotechnology and Conservation of Biodiversity -- 7. Conservation of Forest Genetic Resources; M. Šijai-Nikoli at al -- 8. Advances in Cryogenic Techniques for the Long-Term Preservation of Plant Biodiversity; M.T. Gonzalez-Arnao et al -- 9. Biotechnology in Biodiversity Conservation: Overview of its Application on Conservation of Endangered African Tree

Species; T.D. Houehanou et al -- 10. Biotechnology for Endangered Plant Conservation; A. Manole-Aifitimie -- 11. Biotechnological approaches to medicinal plants of Aravalli Hills: conservation and scientific validation of biological activities; S. Goyal et al -- 12. Biotechnological approaches towards micropropagation and conservation of Cycads and Ephedrales; M. Dhiman, I. Rautela -- 13. Genetic Resources and Biodiversity Conservation in Nigeria through Biotechnology Approaches; J.U. Ogbu -- 14. Biotechnology Tools for Conservation of the Biodiversity of European and Mediterranean Abies species; J. Krajáková et al -- 15. Conservation of Global Wheat Biodiversity: Factors, Concerns and Approaches; M. Asif et al.

---

#### Sommario/riassunto

This book provides complete, comprehensive and broad subject based reviews complete in it-self, useful for students, teachers, researchers and all others interested in the biodiversity conservation. The field of biotechnology has been kept broad to accommodate the wide ranging topics. How biotechnology can affect and solve the problems related to biodiversity management, protection and conservation are described. Current rates of disappearance of biological and cultural diversity in the world are unprecedented. Intensive resource exploitation due to social and economic factors has led to the destruction, conversion or degradation of ecosystems. Reversing these trends requires time to time assessment to integrate conservation and development. Biotechnological tools, particularly the micropropagation technique has been helpful in developing protocols for multiplication of endangered and threatened species. Chapters are written by leading scientists in their field and include biotechnological approaches to threatened and endangered species, pteridophytes, conifers, non-conifer species of gymnosperms, tree species, impact of genetically modified crops, cryopreservation of diverse species, conservation of forest resources, and health and environment. The book will be useful to botanists, biotechnologists, environmentalists, policy makers, conservationists and NGOs working for environment protection.

---