

1. Record Nr.	UNINA9910827346503321
Titolo	Novel plant bioresources : applications in food, medicine and cosmetics // edited by Ameenah Gurib-Fakim ; contributors Abderrahman Aafi [and eighty five others]
Pubbl/distr/stampa	Chichester, England : , : Wiley Blackwell, , 2014 ©2014
ISBN	1-118-46058-8 1-118-46056-1 1-118-46060-X
Descrizione fisica	1 online resource (556 p.)
Disciplina	333.95/3416
Soggetti	Plant diversity Germplasm resources conservation - Economic aspects Germplasm resources, Plant - Economic aspects Plant biotechnology
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	Cover; Title Page; Copyright; Content; List of contributors; Foreword; Part One Novel Plant Bioresources: Applications in Medicine, Cosmetics, etc.; Chapter 1 Plant Diversity in Addressing Food, Nutrition and Medicinal Needs; 1.1 Introduction; 1.2 Plant genetic resources for food and agriculture; 1.3 Plant genetic diversity for nutrition; 1.4 Plant diversity for medicines; Acknowledgements; References; Chapter 2 World Health Organization Perspective for Traditional Medicine; 2.1 Introduction; 2.2 Policies on traditional medicine; 2.3 Tools and guidelines 2.4 Implementation of the regional strategy on traditional medicine 2.5 The way forward; 2.6 Conclusion; References; Chapter 3 Cultivation of Novel Medicinal Plant Products and Associated Challenges; 3.1 Introduction; 3.2 Basic principles of novel crop cultivation; 3.3 Case study 1: Pelargonium sidoides; 3.4 Case study 2: Sutherlandia frutescens; 3.5 Case study 3: Euphorbia resinifera; 3.6 Conclusion;

References; Further reading; Chapter 4 Enabling Technologies to Facilitate Natural Product-Based Drug Discovery from African Biodiversity; 4.1 Introduction; 4.2 Enabling-technology platforms 4.3 Natural product diversification and drug metabolite generation platform 4.4 Conclusion; References; Chapter 5 Assessing Biodiversity: A Molecular Approach Using DNA Sequencing; 5.1 Introduction; 5.2 Taxonomy and evolution; 5.3 Assessing diversity; 5.4 DNA sequencing and barcoding; 5.5 Plant genomics; 5.6 Analysis of marker data; References; Chapter 6 Conservation of Endangered Wild Harvested Medicinal Plants: Use of DNA Barcoding; 6.1 Wild harvested medicinal plants: background and challenges; 6.2 DNA barcoding general; 6.3 DNA barcoding and species delimitation 6.4 DNA barcodes for plants 6.5 Examples of DNA barcoding of cryptic and prepared plant material; 6.6 Plant DNA authentication, verification and certification; 6.7 Future opportunities and challenges; Acknowledgements; References; Chapter 7 Market Entry, Standards and Certification; 7.1 Sustainable utilization of indigenous plant products; 7.2 Market entry; 7.3 Certification; 7.4 Developing indigenous plant-based enterprises as viable businesses with developing country communities; Acknowledgements; References; Further reading Chapter 8 European Union Market Access Categories and Regulatory Requirements for Novel Natural Products 8.1 Introduction; 8.2 Raw materials; 8.3 Finished products; 8.4 Summary; Reference; Further reading; Chapter 9 Nutrition, Health and Food Security: Evidence and Priority Actions; 9.1 Introduction; 9.2 Well-being and nutrition; 9.3 Traditional food cultures; 9.4 Nutrition in pregnancy and infancy; 9.5 Health and nutrition education is central for development; 9.6 Research and development; 9.7 Role of agricultural growth on reducing poverty, hunger and malnutrition; 9.8 Concluding remarks References

Sommario/riassunto

Novel Plant Bioresources: Applications in Food, Medicine and Cosmetics serves as the definitive source of information on under-utilized plant species, and fills a key niche in our understanding of the relationship of human beings with under-utilized plants. By covering applications in food, medicine and cosmetics, the book has a broad appeal. In a climate of growing awareness about the perils of biodiversity loss, the world is witnessing an unprecedented interest in novel plants, which are increasingly prized for their potential use in aromas, dyes, foods, medicines and cosmet
