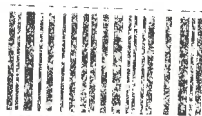


CDD 615.321 Rai

MD 1444

THERAPEUTIC MEDICINAL PLANTS

From Lab to the Market



070118

070118



(4)

Editors

Marta Cristina Teixeira Duarte

CPQBA/UNICAMP – State University of Campinas
Paulínia, São Paulo
Brazil

Mahendra Rai

Department of Biotechnology
S.G.B. Amravati University
Amravati, Maharashtra
India



CRC Press

Taylor & Francis Group
Boca Raton London New York

CRC Press is an imprint of the
Taylor & Francis Group, an informa business
A SCIENCE PUBLISHERS BOOK

Contents

<i>Foreword</i>	v
<i>Preface</i>	vii
1. Mexican Traditional Medicine: Traditions of Yesterday and Phytomedicines of Tomorrow	1
<i>Fabiola Domínguez, Angel Josabad Alonso-Castro, Maricruz Anaya, Ma. Eva González-Trujano, Hermelinda Salgado-Ceballos and Sandra Orozco-Suárez</i>	
2. <i>Centella asiatica</i>: From Ethnomedicinal Uses to the Possibility of New Drug Discovery	38
<i>Abdullah Al-Nahain, Rownak Jahan, Taufiq Rahman, Md Nurunnabi and Mohammed Rahmatullah</i>	
3. <i>Melissa officinalis</i> L.: Overview of Pharmacological and Clinical Evidence of the Plant and Marketed Products in Spain	57
<i>M.T. Ortega Hernández-Agero, O.M. Palomino Ruiz-Poveda, M.P. Gómez-Serranillos Cuadrado and M.E. Carretero Accame</i>	
4. Saffron crocus (<i>Crocus sativus</i>): From Kitchen to Clinic	77
<i>José Luis Ríos and Isabel Andújar</i>	
5. Clinical Studies of Traditional Therapeutic Herbs before Marketing: Current Status and Future Challenges	95
<i>Anushka Mootoosamy and M. Fawzi Mahomoodally</i>	
6. Opportunities and Limitations in Medicinal and Aromatic Plants' Markets and Research in Developing Countries: Lebanon as a Case Study	107
<i>Karam Nisrine, Noun Jihad, Yazbeck Mariana, Soubra Noura and Talhouk Rabih</i>	
7. Mutagenicity, Genotoxicity and Cytotoxicity Assays of Medicinal Plants: First Step for Drug Development	130
<i>Silvany de S. Araújo, Thaís C.C. Fernandes, Maria A. Marin-Morales, Ana C. Brasileiro-Vidal and Ana M. Benko-Iseppon</i>	
8. The Medicinal Species <i>Euphorbia hirta</i> and <i>E. hyssopifolia</i> (Euphorbiaceae): Uses, Phytochemical Data and Genetic Diversity	154
<i>Karla C.B. Santana, Diego S.B. Pinangé, Karina P. Randau, Marccus Alves and Ana M. Benko-Iseppon</i>	
9. Traditional Medicine in Cuba: Experience in Developing Products based on Medicinal Plants	174
<i>Julio C. Escalona, Renato Peres-Roses, Jesús R. Rodríguez, Claudio Laurido, Raúl Vinet, Ariadna Lafourcade, Luisauris Jaimes and José L. Martínez</i>	

10. Challenges for the Development of A Natural Antimicrobial from Essential Oils	188
<i>Marta Cristina Teixeira Duarte and Renata Maria Teixeira Duarte</i>	
11. How to Improve Some Properties and Qualities of Plant Extracts and their Derivatives using Pharmacotechnical Technology Approach	197
<i>Rodney A.F. Rodrigues, Lais T. Yamane and Verônica S. de Freitas</i>	
12. Cultivation and Utilization of Medicinal Plants for Development of Products	217
<i>Pedro Melillo de Magalhães</i>	
13. Essential Oils and their Products as Antimicrobial Agents: Progress and Prospects	253
<i>Janne Rojas and Alexis Buitrago</i>	
14. Some Latin American Plants Promising for the Cosmetic, Perfume and Flavor Industries	279
<i>Amner Muñoz-Acevedo, Erika A. Torres, Ricardo G. Gutiérrez, Sandra B. Cotes, Martha Cervantes-Díaz and Geovanna Tafurt-García</i>	
15. The Therapeutic Potential of Products based on Polyphenols from Wine Grapes in Cardiovascular Diseases	331
<i>Raúl Vînet, José Luis Martínez and Leda Guzmán</i>	
16. From Plant Collection to Lab and Market—Traditional Medicine in Northern Peru	343
<i>Rainer W. Bussmann and Douglas Sharon</i>	
17. An Update on Plant Originated Remedies for the Medication of Hyperlipidemia	353
<i>Mert İlhan, Ipek Süntar and Esra Küpeli Akkol</i>	
18. Pharmacological Aspects of <i>Tribulus terrestris</i> Linn. (Goksuru): Progress and Prospects	375
<i>Anita Patil and Bipin D. Lade</i>	
19. <i>Vitex negundo</i>: Bioactivities and Products	392
<i>Gauravi Agarkar, Priti Jogee, Priti Paralikar and Mahendra Rai</i>	
Index	407