1. Record Nr. UNINA9911047809103321

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| Titolo | Bioactive Compounds in Mangroves and their Associates / / edited by Hosakatte Niranjana Murthy |
| Pubbl/distr/stampa | Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026 |
| ISBN | 9783031910661<br>9783031910654 |
| Edizione | [1st ed. 2026.] |
| Descrizione fisica | 1 online resource (915 pages) |
| Collana | Reference Series in Phytochemistry, , 2511-8358 |
| Disciplina | 547 |
| Soggetti | Natural products<br>Botanical chemistry<br>Microbiology<br>Biochemistry<br>Pharmacology<br>Botany<br>Natural Products<br>Plant Biochemistry<br>Biological Chemistry<br>Plant Science |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Specialized Metabolites of Mangroves and Their Biological Activities -- Novel Secondary Metabolites from Mangrove Flora: Chemistry and Bioactivity -- Chemistry and Biological Activities of Acanthus ilicifolius -- Bioactive Compounds and Biological Activities of Avicennia africana P. Beauv -- Bioactive Compounds and Biological Activities of Avicennia marina (Forssk.) Vierh -- Phytochemistry and Biological Activities of Bruguiera gymnorrhiza -- Phytochemistry and Biological Activities of Calophyllum inophyllum -- Botany, Phytochemistry, Pharmacology, and Toxicology of Cerbera odollam and C. manghas with Emphasis on Anticancer Activities -- Phytochemicals and Biological Activities of Ceriops tagal (Perr.). C. B. Rob -- Phytochemicals and Biological Activities of Excoecaria agallocha L. |

Sommario/riassunto

This reference work offers a comprehensive overview of the chemistry and bioactivity of mangrove ecosystems, focusing on their specialized metabolites and biological activities. Through this volume, readers will discover the novel secondary metabolites from mangrove flora and their potential applications in various fields. The chapters cover a wide range of topics, including the phytochemistry and biological activities of specific mangrove species such as Acanthus ilicifolius, Avicennia marina, and Rhizophora mucronata. The chapter authors present an expert analysis of the bioactive compounds found in these species, exploring their pharmacological and toxicological properties. Particular attention is given to the anticancer activities of certain compounds, as well as the role of mangrove-associated bacteria and fungi in health management and bioremediation. Readers will also encounter discussions on the synthesis of nanomaterials from mangroves and their antimicrobial properties. This book is an essential resource for researchers, scholars, and practitioners in the fields of botany, pharmacology, and environmental science. It invites readers to think through critical questions about the ecological and medicinal significance of mangroves, offering diverse perspectives from expert contributors.