1. Record Nr. UNINA9911019323603321

| | |
|---|---|
| Autore | Das Ashoke Kumar |
| Titolo | Chemistry, Biology and Pharmacology of Lichen |
| Pubbl/distr/stampa | Newark : , : John Wiley & Sons, Incorporated, , 2024<br>©2024 |
| ISBN | 9781394190706<br>1394190700<br>9781394190683<br>1394190689 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (355 pages) |
| Altri autori (Persone) | SharmaAjay<br>KathuriaDeepika<br>AnsariMohammad Javed<br>BhardwajGarima |
| Disciplina | 579.7 |
| Soggetti | Lichens<br>Lichenology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Cover -- Title Page -- Copyright Page -- Dedication -- Contents -- List of Contributors -- Preface -- Chapter 1 Overview of Lichen -- 1.1 Introduction -- 1.2 Distribution -- 1.3 Morphology and Anatomy -- 1.4 Reproduction -- 1.5 Lichen Phytochemicals -- 1.6 Economic Importance -- 1.7 Conservation -- 1.8 Conclusion -- References -- Chapter 2 The Biology of Lichen -- 2.1 Introduction -- 2.2 Lichen Life Form -- 2.2.1 Crustose -- 2.2.2 Foliose -- 2.2.3 Fruticose -- 2.2.4 Leprose -- 2.2.5 Squamulose -- 2.3 The Internal Structure of Lichen -- 2.4 Reproduction of Lichen -- 2.5 Lichen Substrates -- References -- Chapter 3 Taxonomy of Lichen -- 3.1 Introduction -- 3.2 Identification of Lichen -- 3.2.1 Microscopic Approaches -- 3.2.1.1 Morphology -- 3.2.1.2 Anatomy -- 3.2.2 Chemical Approaches -- 3.2.2.1 Color Spot Test -- 3.2.2.2 Thin Layer Chromatography (TLC) -- 3.2.2.3 High Performance Liquid Chromatography (HPLC) -- 3.2.3 Molecular Approaches -- 3.3 Nomenclature of Lichen -- 3.4 Classification |

Model -- 14.5 Conclusion and Future Perspective -- References -- Chapter 15 Ethnobotanical and Pharmacological Properties of Parmelia, Cetraria, Cladonia, and Usnea -- 15.1 Introduction -- 15.2 Ethnobotanical and Pharmacological Properties of the Genus Parmelia -- 15.3 Ethnobotanical and Pharmacological Properties of the Genus Cetraria -- 15.4 Ethnobotanical and Pharmacological Properties of the Genus Cladonia -- 15.5 Ethnobotanical and Pharmacological Properties of the Genus Usnea -- 15.6 Conclusion -- References -- Chapter 16 Food Values of Lichen -- 16.1 Introduction -- 16.2 Historical Background -- 16.3 Lichen as Food for Human.
16.4 Lichen as Spices and Flavor Enhancer.

Sommario/riassunto

This book, edited by Ashoke Kumar Das and others, is a comprehensive exploration of lichens from the perspectives of chemistry, biology, and pharmacology. It discusses the morphology, reproduction, ecological roles, and conservation of lichens, as well as their economic and therapeutic importance. The book also examines the impact of climate change on lichens and their potential as indicators of environmental changes. Intended for researchers and students in botany, chemistry, and environmental science, it provides a detailed account of the taxonomy, physiology, and ecological significance of lichens, offering insights into their role as pioneers in ecological succession and their utility in various industries.