

Χαρακτηριστικά:

- Provides a detailed overview of diverse secondary metabolites and their sources
- Illustrates classical and modern approaches for the detection and purification of secondary metabolites
- Describes the biological mechanisms of utilization for products counteracting stress and disease in humans and plants

Περιεχόμενα:

Section I: Diversity and Production Strategies

1. Secondary Metabolites from Plants
2. Microbial Secondary Metabolites
3. Microalgae as a Rich Source of Secondary Metabolites for Food, Feed and Pharmaceutical Applications
4. Cyanobacteria as a Source of Secondary Metabolites
5. Exploring the Untapped Reservoir of Secondary Metabolites in the Indian Subcontinent
6. Extraction, Purification and Identification Strategies
7. Genetic Engineering as a Means to Maximize Secondary Metabolite Production
8. Enhanced Production of Medicinally Valuable Plant Secondary Metabolites through In Vitro Techniques
9. Bioinformatics as a Tool for Secondary Metabolite Research

Section II: ROLE OF SECONDARY METABOLITES IN PLANT STRESS MANAGEMENT

10. Harnessing Rhizospheric Interactions for Root Disease Control in Plants
11. Influence of Environmental Stress on Secondary Metabolites in Plants
12. Plant-Fungal Interactions and Secondary Metabolites
13. Role of Secondary Metabolites in Plant Defense Against Bacterial and Viral Pathogens
14. Nature's Defense: The Role of Secondary Metabolites in Combating Herbivory

Section III: ROLE OF SECONDARY METABOLITES IN HUMAN HEALTH

15. Secondary Metabolites for Improvement of Human Health
16. Role of Secondary Metabolites in Neurodegenerative Disorders
17. Potential Application of Secondary Metabolites in Cancer
18. Potential Application of Secondary Metabolites in Diabetes
19. Therapeutic outcome of Secondary Metabolites Against Contagious and Non-Contagious Human Diseases
20. Therapeutic Potential of Indian Medicinal Plants: A Recent Progress
21. Clinical Research of Indigenous Medicinal Florae and their Pharmaceutical Formulation for Unlocking the Management of COVID-19