

Proteomics Driven Bioremediation

Strategies for Sustainable Environment

Proteomics Driven Bioremediation: Strategies for Sustainable Environment provides detailed insights into how proteomic techniques can be applied to remediate various environmental pollutants, offering eco-friendly solutions for managing contaminated sites. The book covers a wide range of topics, including the role of proteomics in studying the microbiome of polluted environments, recent developments in the bioremediation of pesticides and petroleum products, and the application of proteomics in managing heavy metals, dyes, and pharmaceutical wastes. It also examines integrative omics approaches, combining proteomics with metabolomics and genomics, to enhance bioremediation strategies. With a strong focus on practical implementation, the book highlights recent research data, updated figures, and case studies that demonstrate the effectiveness of proteomic tools in decontaminating polluted sites. It addresses the educational needs of undergraduate and postgraduate students, research scholars, teachers, and scientists working in the fields of omics, microbiology, biotechnology, bioengineering, environmental sciences, and pollution studies. This book is an essential resource for environmentalists, microbiologists, biotechnologists, agriculturists, and bioengineers.

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