

Advances in
**BOTANICAL
RESEARCH**

LIGNINS: BIOSYNTHESIS,
BIODEGRADATION AND BIOENGINEERING



Volume 61

Edited by
LISE JOUANIN
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Lignins Volume 61 Biosynthesis Biodegradation And Bioengineering Advances In Botanical Research

Keikhosro Karimi



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Advances in Botanical Research ,2021-08-14 Advances in Botanical Research Past Current and Future Topics Volume 100 in the Advances in Botanical Research series celebrates a remarkable achievement as 100 volumes have now been published with several others being prepared New chapters in this monumental release include Editorial activities for Advances in Botanical Research Revisiting ABR editing in the period 2006 2012 An exciting experience with Jean Claude Kader A tribute to the scientific contributions of Pierre Gadgil and his laboratory Evolution of Bacterial Phototrophy Algae for Global Sustainability Genomics of cyanobacteria New insights and lessons for shaping our future An overview of the root knot nematode compatible interaction and more Celebrates the 100th volume of a series that has covered multiple aspects of plant biology in the last 50 years Includes impressive developments of plant physiology topics and techniques Covers plant genomics a newly developing section of plant sciences **Lignins** Lise Jouanin,Catherine Lapierre,2012-07-30 Lignins are nature's aromatic polymers and are the second most abundant organic constituent of the biosphere next to cellulose Lignification mainly occurs in the walls of terrestrial vascular plants mainly in the secondarily thickened cells of supportive or conductive tissues which thus acquire novel properties This new volume of Advances in Botanical Research gives a special emphasis to the bioengineering of these enigmatic polymers It is divided in nine chapters containing up to date reviews by expert groups in their field Gives a special emphasis to the bioengineering of these enigmatic polymers lignins Divided in nine chapters Contains up to date reviews by expert groups in their field Lignin and Lignans as Renewable Raw Materials Francisco G. Calvo-Flores,José A. Dobado,Joaquín Isac-García,Francisco J. Martín-Martínez,2015-08-11 As naturally occurring and abundant sources of non fossil carbon lignin and lignans offer exciting possibilities as a source of commercially valuable products moving away from petrochemical based feedstocks in favour of renewable raw materials Lignin can be used directly in fields such as agriculture livestock soil rehabilitation bioremediation and the polymer industry or it can be chemically modified for the fabrication of specialty and high value chemicals such as resins adhesives fuels and greases Lignin and Lignans as Renewable Raw Materials presents a multidisciplinary overview of the state of the art and future prospects of lignin and lignans The book discusses the origin structure function and applications of both types of compounds describing the main resources and values of these products as carbon raw materials Topics covered include Structure and physicochemical properties Lignin detection methods Biosynthesis of lignin Isolation methods Characterization and modification of lignins Applications of modified and unmodified lignins Lignans structure chemical and biological properties Future perspectives This book is a comprehensive resource for researchers scientists and engineers in academia and industry working on new possibilities for the application of renewable raw materials For more information on the Wiley Series in Renewable Resources visit www.wiley.com/go/rrs *Bio-Clean Energy Technologies: Volume 1* Pankaj Chowdhary,Namita Khanna,Soumya Pandit,Rajesh Kumar,2022-05-30 This book discusses the latest advancements in the

area of biofuel development. It covers extensive information regarding different aspects and types of biofuels. The book provides a road map of the various different kinds of biofuels available for consideration including both conventional and advanced algal based biofuels replete with the economic analysis of their production and implementation. The contributors are experienced professors, academicians and scientists associated with renowned laboratories and institutes in India and abroad. This book is of interest to teachers, researchers, biofuel scientists, capacity builders and policymakers. Also, the book serves as additional reading material for undergraduate and graduate students. National and international scientists, policy makers will also find this to be a useful read. *Lignocellulose-Based Bioproducts* Keikhosro Karimi, 2015-01-12. This volume provides the technical information required for the production of biofuels and chemicals from lignocellulosic biomass. It starts with a brief overview of the importance, applications and production processes of different lignocellulosic products. Further chapters review the perspectives of waste based biofuels and biochemicals, the pretreatment of lignocellulosic biomass for biofuel production, cellulolytic enzyme systems for the hydrolysis of lignocelluloses and basic and applied aspects of the production of bioethanol, biogas, biohydrogen and biobutanol from lignocelluloses. This book is recommended for researchers and engineers and particularly students taking biofuel courses at graduate level. *Microbial Biodegradation and Bioremediation* Surajit Das, Hirak Ranjan Dash, 2021-11-24. *Microbial Biodegradation and Bioremediation: Techniques and Case Studies for Environmental Pollution* Second Edition describes the successful application of microbes and their derivatives for bioremediation of potentially toxic and relatively novel compounds in the environment. Our natural biodiversity and environment is in danger due to the release of continuously emerging potential pollutants by anthropogenic activities. Though many attempts have been made to eradicate and remediate these noxious elements, thousands of xenobiotics of relatively new entities emerge every day, thus worsening the situation. Primitive microorganisms are highly adaptable to toxic environments and can reduce the load of toxic elements by their successful transformation and remediation. This completely updated new edition presents many new technologies and techniques and includes theoretical context and case studies in every chapter. *Microbial Biodegradation and Bioremediation: Techniques and Case Studies for Environmental Pollution* Second Edition serves as a single source reference and encompasses all categories of pollutants and their applications in a convenient, comprehensive format for researchers in environmental science and engineering, pollution, environmental microbiology and biotechnology. Describes many novel approaches of microbial bioremediation including genetic engineering, metagenomics, microbial fuel cell technology, biosurfactants and biofilm based bioremediation. Introduces relatively new hazardous elements and their bioremediation practices including oil spills, military waste, water, greenhouse gases, polythene wastes and more. Provides the most advanced techniques in the field of bioremediation including *in silico* approach, microbes as pollution indicators, use of bioreactors, techniques of pollution monitoring and more. Completely updated and expanded to include topics and techniques such as genetically engineered bacteria, environmental health, nanoremediation, heavy metals.

contaminant transport and in situ and ex situ methods Includes theoretical context and case studies within each chapter

Progress in Adhesion and Adhesives, Volume 9 K. L. Mittal, 2025-04-29 The present book constitutes Volume 9 in the book series Progress in Adhesion and Adhesives which was conceived as an annual publication and the premier volume made its debut in 2015 These volumes provide state of the knowledge and curated reviews on many and varied topics about adhesion and adhesives The current book contains 14 chapters that include the use of hydrophobic and icephobic coatings for aircraft icing mitigations fundamental concepts and the application of hydrophobic coatings plasma treatment of polymers to enhance their adhesion atmospheric pressure plasma treatment of artificial leather sustainable plasma technology as a surface treatment in footwear materials failure cases in adhesive joints and coatings initiating systems for curing anaerobic adhesives use of fungal mycelia as an adhesive in composites mechanically responsive hydrogels as adhesives for clinical applications and adhesion of electrode coatings in lithium ion batteries and supercapacitors

Molecular Mycorrhizal Symbiosis Francis Martin, 2016-12-19 Recent years have seen extensive research in the molecular underpinnings of symbiotic plant fungal interactions Molecular Mycorrhizal Symbiosis is a timely collection of work that will bridge the gap between molecular biology fungal genomics and ecology A more profound understanding of mycorrhizal symbiosis will have broad ranging impacts on the fields of plant biology mycology crop science and ecology Molecular Mycorrhizal Symbiosis will open with introductory chapters on the biology structure and phylogeny of the major types of mycorrhizal symbioses Chapters then review different molecular mechanisms driving the development and functioning of mycorrhizal systems and molecular analysis of mycorrhizal populations and communities The book closes with chapters that provide an overall synthesis of field and provide perspectives for future research Authoritative and timely Molecular Mycorrhizal Symbiosis will be an essential reference from those working in plant and fungal biology *Biology, Controls and Models of Tree Volatile Organic Compound Emissions* Ülo Niinemets, Russell K. Monson, 2013-07-08 Plant driven volatile organic compound BVOC emissions play a major role in atmospheric chemistry including ozone and photochemical smog formation in the troposphere and they extend the atmospheric lifetime of the key greenhouse gas methane Furthermore condensation of photo oxidation products of BVOCs leads to formation of secondary organic aerosols with profound implications for the earth's solar radiation budget and climate Trees represent the plant life form that most contributes to BVOC emissions which gives global forests a unique role in regulating atmospheric chemistry Written by leading experts in the field the focus is on recent advancements in understanding the controls on plant driven BVOC emissions including efforts to quantitatively predict emissions using computer models particularly on elicitation of emissions under biotic and abiotic stresses molecular mechanisms of volatile synthesis and emission and the role of emissions in plant stress tolerance **Microbial Systematics** Bhagwan Rekadwad, 2020-11-01 This book presents recent scientific investigations in microbial ecology and systematics Advanced microbial science investigations employ the latest technologies

for research in microbiology and microbial applications The book has complete information on classical microbiology techniques for assessment of the composition of microbial diversity assessment advancement in next generation technology advantages of microbial products in sustainable developments and their application for societal benefits Current research on microorganisms is presented as a perfect book for studies on Microbial Systematics This book will serve as an important resource for practising research and review for the scientific community *Renewable Biofuels* Vandana Rana, Diwakar

Rana, 2016-12-08 This book offers a complete introduction for novices to understand key concepts of biocatalysis and how to produce in house enzymes that can be used for low cost biofuels production The authors discuss the challenges involved in the commercialization of the biofuel industry given the expense of commercial enzymes used for lignocellulose conversion They describe the limitations in the process such as complexity of lignocellulose structure different microbial communities actions and interactions for degrading the recalcitrant structure of lignocellulosic materials hydrolysis mechanism and potential for bio refinery Readers will gain understanding of the key concepts of microbial catalysis of lignocellulosic biomass process complexities and selection of microbes for catalysis or genetic engineering to improve the production of bioethanol or biofuel **Lignins**, 2012-06-25 Lignins are nature's aromatic polymers and are the second most abundant organic

constituent of the biosphere next to cellulose Lignification mainly occurs in the walls of terrestrial vascular plants mainly in the secondarily thickened cells of supportive or conductive tissues which thus acquire novel properties This new volume of *Advances in Botanical Research* gives a special emphasis to the bioengineering of these enigmatic polymers It is divided in nine chapters containing up to date reviews by expert groups in their field Gives a special emphasis to the bioengineering of these enigmatic polymers lignins Divided in nine chapters Contains up to date reviews by expert groups in their field

Agrindex, 1992 **Advances in Botanical Research**, 2022-07-01 Lignin is a large phenolic polymer found in the cell wall of most land plants Volume ABR104 provides in depth reviews on the most recent discoveries in the field It revisits the lignin paradigm and reviews the occurrence of unconventional lignin precursors that are derived from both the monolignol biosynthetic pathway and from other polyphenolic biosynthetic pathways The volume encompasses the most recent data about the regulation of lignin biosynthesis in a environment of polysaccharides the importance of oxidases the pivotal role of feruloylation and coumaroylation of the cell wall both in the lignified stem and in the cereal grain The volume gives an important part to the transcriptional regulation at different scales At last vibrational and fluorescence microscopy methods to characterize the lignin decorated cell wall as well the most recent bioengineering approaches towards lignin modification are reviewed The paradigm of lignin polymer expanded to new discovered compounds The fluorescence and vibrational microscopy to detect lignin and phenolics Spatial and timed transcriptional regulation of lignification **Lignin**

Biodegradation: Microbiology, Chemistry, and Potential Applications T.K. Kirk, 2018-01-18 This book records the proceedings of international seminar on lignin biodegradation and provides a state of the art summary of research It reviews

the lignin structure and morphological distribution in plant cell walls and explores the microbial catabolism of relevant aromatics **Investigating and Manipulating Lignin Biosynthesis in the Postgenomic Era** Claire Halpin,2004

Lignin Biodegradation: Microbiology, Chemistry, and Potential Applications T.Kent. Kirk,2019-07-23 Lignin is a generic name for the complex aromatic polymers that are major components of vascular plant tissues Lignin is abundant in terms of weight it is probably second only to cellulose among renewable organic materials and in terms of energy content it might well be the single most abundant an international seminar on lignin biodegradation was organized and was held May 9 to 11 1978 at the U S Forest Products Laboratory in Madison Wisconsin This book records the proceedings of that seminar and is meant to provide a summary of research Each speaker author was asked to summarize his research including his latest unpublished results and to describe how his work fits into the overall picture Following two orientation chapters one a review of lignin structure and morphological distribution in plant cell walls and the second a review of the microbial catabolism of relevant aromatics the book is comprised of chapters in the three subject areas given by the book s title It does as intended provide comprehensive coverage of research to date August 1978 **Lignin Biodegradation** Hou-min Chang,Takayoshi Higuchi,T. Kent Kirk,2018 Lignin Biodegradation T. K. Kirk,2017-12-13 *Lignin and Hydroxycinnamic Acids* Richard Sibout,2022

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