



Short survey

Challenges and opportunities in implementing allelopathy for natural weed management

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Abstract

Plants may favorably or adversely affect other plants through allelochemicals, which may be released directly or indirectly from live or dead plants (including microorganisms). Due to increase in the number of herbicide-resistant weeds and environmental concerns in the use of synthetic herbicides, there have been considerable efforts in designing alternative weed management strategies. The conventional synthetic herbicides are becoming less and less effective against the resistant weed biotypes. The objective of this article is to examine the role of allelopathic cover crops/crop residues, natural compounds, and allelopathic crop cultivars in natural weed management. Numerous examples of employing crop residues, cover crops and allelopathic crop cultivars in weed management are provided. Although we cannot eliminate the use of herbicides, their use can be reduced by exploiting allelopathy as an alternate weed management tool for crop production against weeds and other pests.

Keywords

- Allelopathy;
- Weed;
- Cover crops;
- Weed-suppressing crop cultivars

Allelopathy Advances Challenges And Opportunities

**Ren Sen Zeng,Azim U. Mallik,Shiming
Luo**



Allelopathy Advances Challenges And Opportunities:

Allelopathy in Sustainable Agriculture and Forestry Ren Sen Zeng,Azim U. Mallik,Shiming Luo,2008-04-03 Simply put allelopathy refers to an ecological phenomenon of plant plant interference through release of organic chemicals allelochemicals in the environment These chemicals can be directly and continuously released by the donor plants in their immediate environment as volatiles in the air or root exudates in soil or they can be the microbial degradation products of plant residues The chemicals may interfere with survival and growth of neighboring or succeeding plants Black walnut eucalyptus sunflower sorghum sesame and alfalfa are common examples of plants with allelopathic property as well as some staple crops such as rice wheat barley and sorghum Plants can emit chemicals that also discourage insects and pathogens To maintain sustained productivity knowledge of this form of plant interference on other plants and on disease causing organisms has been used in agriculture since prehistoric time by manipulating cropping pattern and sequence such as mixed cropping and crop rotation However use of numerous agrochemicals including a wide range of herbicides pesticides fertilizers and genetically modified high yielding crops has become the characteristic feature of modern industrial agriculture Not only the sustainability of crop yield is called into question in this form of agriculture the extensive long term and often irreversible environmental degradation including ground water contamination and food safety associated with industrial agriculture are now of serious concern worldwide The objective is to report on the latest advances in allelopathy by inviting leading scientists to contribute in specific fields The volume is organized under three major subsections History of allelopathy Allelochemicals allelopathic mechanisms and bioassays and Application of allelopathy in agriculture and forestry An emphasis is place on methodology and application making it a truly practical reference *Interactions in Soil: Promoting Plant Growth* John Dighton,Jennifer Adams Krumins,2014-05-19 This book investigates soil ecology and biodiversity for its ability to maintain a balance of beneficial organisms to support plant growth This subject is discussed by a group of international authors in natural agricultural and urban systems The importance of biodiversity per se and specifically the feedbacks between the plant and soil biota in mediating soil function are emphasized Examples are selected from allelopathy and invasive plant species along with the hitherto overlooked role of viruses in soil The book is intended to provide a framework for a holistic understanding of the essential role of soil organisms in promoting plant growth **New Frontiers in Stress Management for Durable Agriculture** Amitava Rakshit,Harikesh Bahadur Singh,Anand Kumar Singh,Uma Shankar Singh,Leonardo Fraceto,2020-03-23 Using accessible farming practices to meet the growing demands on agriculture is likely to result in more intense competition for natural resources increased greenhouse gas emissions and further deforestation and land degradation which will in turn produce additional stress in the soil water plant animal continuum Stress refers to any unfavorable force or condition that inhibits customary functioning in plants Concurrent manifestations of different stresses biotic and abiotic are very frequent in the environment of plants which consequently reduces yield Better

understanding stress not only changes our perspective on the current environment but can also bring a wealth of benefits like improving sustainable agriculture and human beings living standards Innovative systems are called for that protect and enhance the natural resource base while increasing productivity via holistic approaches such as agroecology agro forestry climate smart agriculture and conservation agriculture which also incorporate indigenous and traditional knowledge The book *New Frontiers in Stress Management for Durable Agriculture* details the current state of knowledge and highlights scientific advances concerning novel aspects of plant biology research on stress biotic and abiotic stress responses as well as emergent amelioration and reclamation technologies to restore normal functioning in agroecology Issues in Genetic Research: 2012 Edition ,2013-01-10 *Issues in Genetic Research 2012 Edition* is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Mutation Research The editors have built *Issues in Genetic Research 2012 Edition* on the vast information databases of ScholarlyNews You can expect the information about Mutation Research in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Issues in Genetic Research 2012 Edition* has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Weed management in Conservation Agriculture systems Professor Gottlieb Basch,Dr Emilio J. González-Sánchez,Mr John Geraghty,Dr Seyed Vahid Eslami,Professor Sjoerd W. Duiker,Dr Saidi Mkomwa,Dr Marie L. C. Bartz,2025-06-27 Considers how weed management can be optimised in an array of different production systems including perennial Conservation Agriculture CA systems and organic CA systems Provides a comprehensive overview of the recent research on the use of cultural and physical weed management techniques in CA systems such as the use of allelopathy and thermal weed control Reviews the range of chemical and biological weed management techniques available to CA farmers including the use of bioherbicides and other emerging methods of biological control Research Advances on Forest Tree Functional Genomics and Breeding ,2025-01-17 Forest trees play a key role in terrestrial biodiversity and contribute to carbon sequestration Forest trees also exhibit a rich array of agronomic and economic traits making them ideal as important species for studying functional genes for the unique characteristics of forest tree species Fast growing forest plantations are sustainable feedstocks of plant biomass that can serve as substitutes for fossil carbon resources for materials chemicals and energy The first annotated whole genome sequence of the model woody plant *Populus trichocarpa* was published in 2006 Since then many forest tree species have been sequenced and annotated which has facilitated the development of functional genomics GWAS genetic tools and new biotechnologies in tree research Targeted functional genomics allows us to identify genes that affect traits of interest such as agronomic and economic traits wood properties and biotic stress resistance Molecular biology

based biotechnologies allow us to manipulate these genes and traits The breakthroughs in biotechnology approaches together with accelerated genomic breeding will be crucial for the functional revealing of important genes for key traits and the development of a new generation of woody crops helping us to keep up with the growing demand for wood fiber and other bioproducts from forest trees This Research Topic aims to explore the molecular mechanisms of key biological processes in model and non model forest tree species with a combination of approaches of genetics omics and chemistry Also new technologies and resources used for forest tree species research are of equal importance to basic science We encourage fundamental research in the field of forest tree genomics genetic studies in revealing the genes and pathways associated with key agronomic and economic traits in forest trees molecular mechanisms of secondary growth regulation in tree species and the potential utilization of biotechnologies in genetic improvement of woody crops We welcome all types of submissions including original research reviews methodologies mini reviews perspectives and opinion articles in this field including but not limited to research covering Genetic and functional characterization of genes regulating perennial tree secondary growth Genetic improvement in woody tree crops using gene editing and other modern biotechnologies Discovery characterization and application of germplasm resources with agronomic and economic traits New technologies and resources for forest tree research

Agroecology in China Luo Shiming, Stephen R. Gliessman, 2017-03-27 Key features Reviews the development of agroecology in China including research practice management and education regarding challenges for rural and agricultural progress Presents information from sources not readily available in the West about agricultural development in China during the last several decades Provides models and indicates starting points for future research and practice Addresses how to meet future challenges of agroecosystems from the field to the table in China from scientific technological and management perspectives During the past 30 years industrialization has fundamentally changed traditional rural life and agricultural practices in China While the incomes of farmers have increased serious issues have been raised concerning the environment resource depletion and food safety In response the Chinese government and Chinese scientists encouraged eco agriculture the practice of agroecology principles and philosophy as a way to reduce the negative consequences of large scale industrialized systems of farming Agroecology in China Science Practice and Sustainable Management represents the work of experts and leaders who have taught researched and expanded Chinese agroecology and eco agriculture for more than 30 years It reviews decades of agricultural change to provide an integrated analysis of the progress of research and development in agroecological farming practices The book contains research on traditional and newly developed agricultural systems in China including intercropping systems rainfall harvest systems and rice duck rice fish and rice frog co culture systems It covers current eco agriculture practices in the major regions of China according to climate conditions The book closes with a discussion of the major technical approaches necessary policy support and possible major development stages that must occur to allow broader agroecological implementations toward the sustainability of future food systems in China

Presenting eco agriculture systems that are somewhat unique in comparison to those of the United States Latin America and Europe Agroecology in China gives insight on how Chinese agroecologists under the political and cultural systems specific to China have created a strong foundation for ecologically sound agroecosystem design and management that can be applied and adapted to food systems elsewhere in the world By using selected regional examinations of agroecological efforts in China as examples this book provides models of how to conduct research on a broad range of agroecosystems found worldwide

Advances in Legumes for Sustainable Intensification Ram Swaroop Meena,Sandeep Kumar,2022-06-29
Advances in Legume based Agroecoystem for Sustainable Intensification explores current research and future strategies for ensuring capacity growth and socioeconomic improvement through the utilization of legume crop cultivation and production in the achievement of sustainability development goals SDGs Sections cover the role of legumes in addressing issues of food security improving nitrogen in the environment environmental sustainability economic environmentally optimized systems the importance and impact of nitrogen organic production and biomass potential legume production biology breeding improvement cropping systems and the use of legumes for eco friendly weed management This book is an important resource for scientists researchers and advanced students interested in championing the effective utilization of legumes for agronomic and ecological benefit Focuses on opportunities for agricultural impact and sustainability Presents insights into both agricultural sustainability and eco intensification Includes the impact of legume production on societal impacts such as health and wealth management

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