



# Allelopathy as a source of bioherbicides: challenges and prospects for sustainable agriculture

Marianna Kostina-Bednarz · Joanna Plonka · Hanna Barchanska

Received: 13 February 2023 / Accepted: 27 April 2023 / Published online: 10 May 2023  
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**Abstract** The sustainable management of the environment and crop production in modern agriculture involves dealing with challenges from climate change, environmental pollution, depletion of natural resources, as well as pressure to cope with dependence on agricultural inputs. Balancing crop productivity with environmental sustainability is one of the main challenges for agriculture worldwide. The emergence of weeds resistant to synthetic herbicides generates huge economic losses, so unconventional weed control strategies, especially those based on ecological principles, are very much needed in modern agriculture. Incorporating a natural eco-friendly approach—allelopathy—as a tool in an integrated weed control plan by growing specific crops or spraying fields with extracts containing allelopathic compounds can significantly reduce the use of herbicides. Allelopathy is considered a multi-dimensional phenomenon occurring constantly in natural and anthropogenic ecosystems, by which one organism produces biochemicals that influence the growth, survival,

development, and reproduction of other organisms. The objective of this systematic literature review is to present a comprehensive overview of allelopathy, define this phenomenon, and classify allelochemicals. This paper also discusses and highlights recent advances, ongoing research, and prospects on plant allelopathy management practices applied in agriculture, and the underlying allelopathic mechanisms. The review suggested the holistic view of some allelochemicals as an ecological approach to integrated weed control and is an important contribution to future research directions of multidisciplinary programs, chemoinformatic tools, and novel biotechnology methods to plant breeding.

**Keywords** Allelopathy · Bioherbicides · Sustainable agriculture · Secondary metabolism · Weed management · Allelochemicals

## 1 Introduction

One of the most important elements to sustaining life and promoting good health is ensuring access to enough safe and nutritious food. It is estimated that the agro-tech sector may encounter many difficulties in securing food production for the rapidly growing human population in the coming years. The world's population is expected to increase by 2 billion persons in the next 30 years, from 7.7 billion currently to 9.8 billion in 2050 (Hernandez-Tenorio et al. 2022). Out

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## 2 Allopathy Advances Challenges And Opportunities

**Joacim Rocklöv**



## 2 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

**Advances in Legumes for Sustainable Intensification** Ram Swaroop Meena, Sandeep Kumar, 2022-06-29 Advances in Legume based Agroecosystem 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

**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

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 Conservation Agriculture CA and other low input production 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 *Plant Protection Quarterly*, 1999 **Directory of Published Proceedings**, 2002 *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

**Books In Print 2004-2005** Ed Bowker Staff, Staff Bowker, Ed, 2004 **New Botanist**, 2001 **Dissertation Abstracts International**, 1997 *25 Years of Botany, 1947-1972* Missouri Botanical Garden, Warren H. Wagner, 1974 **Special Publication**, 1984 **Biochemical Interactions Among Plants**, 1971 *Horticultural Abstracts*, 1991 **Weed Science**, 1982 *International Books in Print*, 1986 **Proceedings of the Fourth International Congress of Nematology, 8-13 June 2002, Tenerife, Spain** Roger C. Cook, David J. Hunt, 2004 **Biochemical Interactions Among Plants** U.S. National Committee for the International Biological Program. Environmental Physiology Subcommittee, 1971 **Indian Books in Print**, 1998 Winter Wheat (*Triticum Aestivum* L.) as a Cover Crop in Sugar Beet (*Beta Vulgaris* L.) Production Paul Bryan Knoerr, 1997

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