

Justus Ludewig von Uslar, and the First Book on Allelopathy

by

R.J. Willis



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Justus Ludewig von Uslar, and the First Book on Allelopathy R.J. Willis, 2007-10-03 Allelopathy is a fascinating and perplexing topic that concerns the chemical interactions of plants. It has profound implications in agriculture and forestry where species are grown artificially in mixture with no evolutionary history of co-existence. The topic of allelopathy is widely credited as commencing in 1937 when the term allelopathy was coined by Molisch. However, the concept of allelopathy has been recorded since Greek and Roman times, became extremely controversial in the first half of the 19th century and remains so today. This book concerns a virtually unknown treatise by Justus Ludewig von Uslar published in 1844 which emerges as the first book entirely devoted to the concept of allelopathy. The book provides the historical background to allelopathic knowledge from antiquity to c. 1840. It also provides for the first time a biography of Justus Ludewig von Uslar who is best known as the first Consul General for Hannover in Mexico and Director of the Mexican Company, a British venture mining company. In many ways, von Uslar epitomises the tradition of the gentleman scientist of the 19th century. The book then offers a full translation into English of von Uslar's rare treatise which foreshadows many ideas current in allelopathic research.

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Allelopathy Zahid A. Cheema, Muhammad Farooq, Abdul Wahid, 2012-09-18 Allelopathy is an ecological phenomenon by which plants release organic chemicals, allelochemicals, into the environment, influencing the growth and survival of other organisms. In this book, leading scientists in the field synthesize latest developments in allelopathy research with a special emphasis on its application in sustainable agriculture. The following topics are highlighted: Ecological implications such as the role of allelopathy during the invasion of alien plant species; regional experiences with the application of allelopathy in agricultural systems and pest management; the use of microscopy for modeling allelopathy; allelopathy and abiotic stress tolerance; host allelopathy and arbuscular mycorrhizal fungi; allelopathic interaction with plant nutrition and the molecular

mechanisms of allelopathy This book is an invaluable source of information for scientists teachers and advanced students in the fields of plant physiology agriculture ecology environmental sciences and molecular biology

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

The History of Allelopathy R.J. Willis,2007-10-12 With a claim to be the first work to document in detail the history of allelopathy Willis s text provides an account of the concept of allelopathy as it has occurred through the course of botanical literature from the earliest recorded writings to the modern era A great deal of information is presented here in a consolidated and accessible form for the first time The book offers a unique insight into the historical factors which have influenced the popularity of allelopathy

Weedy and Invasive Plant Genomics C. Neal Stewart, Jr.,2009-08-07 Weedy and Invasive Plant Genomics offers a comprehensive up to date reference on genetic and genomics research in weedy and invasive plants Forward looking in its approach the work also assesses the areas of future research necessary to defeat these agricultural pests This research based scholarly work engenders a further understanding of weeds and invasive plants opening avenues for developing more effective methods of managing them This volume will be a necessary reference for weed scientists agrochemical industry researchers conservation geneticist and plant biologists

Plant Secondary Metabolites, Three-Volume Set Mohammed Wasim Siddiqui,Kamlesh Prasad,Vasudha Bansal,2017-01-06 Plant secondary metabolites are organic compounds that aid in the growth and development of plants but are not required

for the plant to survive by fighting off herbivores pests and pathogens These plant secondary metabolites have been used since early times in various medicines and food products for beneficial health purposes and are still r

Plant Secondary Metabolites, Volume One Mohammed Wasim Siddiqui,Kamlesh Prasad,2017-01-06 This volume Plant Secondary Metabolites Volume 1 Biological and Therapeutic Significance presents important information on the curative and therapeutic roles of secondary metabolites that are present in different natural food groups The book showcases the applications of herbal based food group and also includes the effective utility of other plant based food categories as well In addition to the clinical role of secondary metabolites other natural sources such as micro algae and bacterial cellulose are also presented as efficacious sources of functional components

American Book Publishing Record ,2005 **Von 66 Kunstsachen zum Institut für Völkerkunde 1773 bis 1935/36** Gudrun Bucher,2023 The Goettingen University acquired in 1773 a private natural history collection from Christian Wilhelm Buettner one of its professors This collection became the core of the University s Academic Museum In addition to thousands of items of natural history minerals plants zoological items 66 Art Things were part of Buettner s collection The publication investigates the question if and how the emergence of scholarly disciplines was stimulated by processes of forming and working with specific collections taking the development of the Ethnographic collection starting from the 66 Art Things 1773 to the foundation of the Institute and Collection of V lkerkunde 1935 36 and the emergence of V lkerkunde as a university discipline in G ttingen as an example

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