

Applied Botany

"History of Botany (1530-1860)" by Julius Sachs (translated by Henry E. F. Garnsey). Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten?or yet undiscovered gems?of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

Gavin Hardy and Laurence Totelin have brought together their botanical and historical knowledge to produce this unique overview of ancient botany. It examines all the founding texts of botanical science, such as Theophrastus' Enquiry into Plants, Dioscorides' Materia Medica, Pliny the Elder's Natural History, Nicolaus of Damascus' On Plants, and Galen' On Simple Remedies, but also includes lesser known texts ranging from the sixth century BCE to the seventh century CE, as well as some material evidence. The authors adopt a thematic approach rather than a chronological one, considering important issues such as the definition of a plant, nomenclature, classifications, physiology, the link between plants and their environment, and the numerous usages of plants in the ancient world. The book also takes care to place ancient botany in its historical, social and economic context. The authors have explained all technical botanical terms and ancient history notions, and as a result, this work will appeal to historians of ancient science, medicine and technology; classicists; and botanists interested in the history of their discipline.

The January number of early volumes contains the reports of the officers of the board and the director.

The Present Book, Applied Botany, Provides Information About Contemporary Plant Science Research And Its Importance In The Present Context. The Book Contains 22 Articles On All Major Branches Of Botany Including Physiology, Plant Pathology, Gymnosperms, Taxonomy, Ecology, Tissue Culture And Medicinal Plants; Chapters On Leaf Senescence, Allelopathy, Pollen Biotechnology, Toxicity Of Pesticides, Medicinal Ferns And Useful Metabolites From Plant Tissue Culture, Etc. Provide Useful Information On The Subjects. Topics On Plant Diseases, Namely, Sugarcane Virus Diseases; Diseases Of Betelvine; Seed Diseases By Fungi And Nematode Disease Of Pulses And Their Management, Etc. Have Added To The Value Of The Book. Articles On The Spiritual Tree Ficus Religiosa And Vedic Yajna Generate Interest In Vedic Sciences. In A Nutshell, This Book Covers Major Topics On Areas Of Plant Sciences And Highlights Gaps In Our Present Knowledge So That The Gaps Can Be Filled Up In The Near Future To Keep Pace With International Progress. Thus The Book Provides A Good Glimpse Of Botanical Research In India. This Volume Will Serve Not Only As An Excellent Reference Material But Also As A Practical Guide For Teachers, Research Scholars, Students And Workers In The Field Of Plant Sciences And Agriculture.

Julius von Sachs (1832–1897) was a German botanist from Breslau, Prussian Silesia. In Sachs 'History of Botany' he has made it his chief object to discover the first dawning of scientific ideas and to follow them as they developed into comprehensive theories, for in this lies the true history of a science. Sachs singles out those men as the true heroes of our story who not only established new facts, but gave birth to fruitful thoughts and made a speculative use of empirical material.

With new discoveries and inventions in science, application of botany has attained many dimensions. Besides the conventional application of botanical sciences, forensic botany; nanobotany; phytoremediation and phytomining; environmental impact assessment, seed quality enhancement through priming are the new dimensions of applied botany. The industrial applications of botany are in paper pulp, rubber, dye and gum industries. At social front, besides providing the livelihood and employment through cultivation of crops, the branches of botany like community forestry are playing major role in the upliftment of folks. Use of mechanisms of carnivorous plants in plant protection; and management of invasive plants for economic gains and conservation of biodiversity are new challenges in applied botany.

Science education is experiencing a revitalization, as it is recognized that science should be accessible to everyone, not just society's future scientists. One way to make the study of science more substantive to the non-major is to require a laboratory component for all science courses. The subject of applied botany with its emphasis on the practical aspects of plant science, the authors believe, will be appealing to the non-major as it exemplifies how a basic science can be applied to problem solving. Laboratory Manual for Applied Botany will make students realize that the study of plants is relevant to their lives and that they can participate in the discovery process of science. Although the manual includes much of the basic plant anatomy found in standard botany manuals, it differs in taking a practical approach, examining those plants and plant products that have sustained or affected human society.

With one new volume each year, this series keeps scientists and advanced students informed of the latest developments and results in all areas of botany. The present volume includes reviews on structural botany, taxonomy, geobotany, plant physiology, genetics, and floral ecology.

Active botanical ingredients are a prime requirement for herbal formulations and discovering a drug is all about integration of science disciplines. In recent decades there has been a growing interest in treating wounds and diseases using traditional remedies based on local herbs, combined with chemical advances. Although this has led to the development of new bioactive ingredients from plants, there has been little success in terms of clinical trials and post-marketing studies to comply with FDA guidelines. Plants have been used as a source of medicine throughout history and continue to serve as the basis for many pharmaceuticals used today. However, despite the modern pharmaceutical industry being founded on botanical medicine, synthetic approaches to drug discovery have now become standard. Science-driven translational discovery and botanical development has created a new reality, leading to enormous changes in strategies, technologies and the disciplines involved, which have been embraced by the pharmaceutical and biotech industries. This book gathers scientific expertise and traditional knowledge to promote the discovery and development of new formulations and drugs based on active ingredients and to provide guidance on taking these to clinical trials. It discusses major topics, such as how the phytochemical composition of many plants has changed over time due to factors like cultivation, which can have both positive and negative effects on the levels of bioactive compounds. It also explores the importance of plants as a valuable source of therapeutic compounds as a result of their vast biosynthetic capacity, and classifies them according to their intended use, safety and regulatory status. Further, the book offers insights into the regulatory aspects of botanical products, which is an important issue when considering standardization and quality

assessment, and also examines the commercial aspects of plant-derived medications and their proven role in the treatment of chronic diseases such as heart disease, high blood pressure, pain, asthma, and other associated conditions. Given its scope, this book is a valuable tool for botanists, natural product chemists, pharmacologists and microbiologists involved in the study of phytochemicals for drug discovery.

Vol. 25: The distribution of Hepaticæ in Scotland, by S.M. Macvicar.

The strength of this book is that it is written by someone who has spent a lifetime devoted to the science of economic botany. The author has brought together his vast experience in the field in Africa with his studies of arid land plants at the Royal Botanic Gardens, Kew. The result is an informative and reliable text that covers a vast range of topics. It is also firmly based upon the author's research and interest in plant taxonomy and therefore fully acknowledges the importance of correct naming and classification in the field of science of economic botany.

The coverage is of economic botany in its broadest sense. I was delighted to find such topics as ecophysiology, plant breeding, the environment and conservation are included in the text. This gives the book a much more comprehensive coverage than most other texts on the subject. I was also glad to see that the book covers the use of various organisms that are no longer considered part of the plant kingdom such as various species of fungi and algae. It is indeed a broad ranging book that will be of use to many people interested in the uses of plants and fungi. Economic botany is once again being given more prominence as a discipline because of its enormous relevance to both conservation and sustainable development. Those people involved in those topics should find this a most useful resource.

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APPLIED BOTANY American Academic Press

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