



THE ANTHER

form, function and phylogeny

Edited by William G. D'Arcy and Richard E. Kesteven

Anther Form Function And Phylogeny

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Anther Form Function And Phylogeny:

The Anther William G. D'Arcy, 1996-03-07 Publisher Description **Flowering Plant Embryology** Nels R. Lersten, 2008-02-28 Drawing from a lifetime of teaching botany Dr Nels Lersten presents the study of the structures and processes involved in the reproduction of plants in his text Flowering Plant Embryology This richly illustrated reference text with more than 350 figures and illustrations presents general angiosperm embryology as it applies to economically important plants The unique focus on economically important species increases the relevance of this book to today's students and researchers in the plant sciences Lersten emphasizes the plant species that affect human livelihood including weeds and other cultivated plants that are used for commercial products Selected from the thousands of economically important plants the examples chosen for illustration and discussion are familiar especially to students from North America Northern Europe and Japan Although the emphasis of this book is economically important plants the information within applies to almost all flowering plants Extremely readable and well written this book is neither dense nor academic in tone Lersten treats topics with a uniformity of style and organization that enhances comprehension Terms are well defined and the derivation of each is explained to further facilitate student learning The book presents research results hypotheses and speculations about why things are as they are with supporting facts and specific examples that provide a firm foundation for students understanding of embryological diversity among economic plants *Developmental Genetics of the Flower*, 2006-09-29 Current major interests in this area include the study of higher level phylogenetic relationships and character evolution in the angiosperms floral evolution the genetic basis of key floral differences in basal angiosperms the genetic and genomic consequences of polyploid speciation conservation genetics of rare plant species and phylogeography *Developmental Genetics of the Flower* provides a series of papers focused on the developmental genetics of flowering as well as the genetic control of the timing of flowering Investigation of speciation mechanisms evolutionary relationships and character evolution in flowering plants and land plants utilizing a variety of experimental approaches are discussed The chapters are excellent reviews of the current fast moving area of research Provides a brief review of genes known to regulate flower development Articles emphasize the classic ABC model of flower development **Phylogeny and Evolution of the Angiosperms** Douglas Soltis, Pamela Soltis, Peter Endress, Mark Chase, Steven Manchester, Walter Judd, Lucas Majure, Evgeny Mavrodiev, 2018-01-24 Although they are relative latecomers on the evolutionary scene having emerged only 135 170 million years ago angiosperms or flowering plants are the most diverse and species rich group of seed producing land plants comprising more than 15 000 genera and over 350 000 species Not only are they a model group for studying the patterns and processes of evolutionary diversification they also play major roles in our economy diet and courtship rituals producing our fruits legumes and grains not to mention the flowers in our Valentine's bouquets They are also crucial ecologically dominating most terrestrial and some aquatic landscapes This fully revised edition of *Phylogeny and Evolution of the Angiosperms* provides an up to date comprehensive

overview of the evolution of and relationships among these vital plants Incorporating molecular phylogenetics with morphological chemical developmental and paleobotanical data as well as presenting a more detailed account of early angiosperm fossils and important fossil information for each evolutionary branch of the angiosperms the new edition integrates fossil evidence into a robust phylogenetic framework Featuring a wealth of new color images this highly synthetic work further reevaluates long held evolutionary hypotheses related to flowering plants and will be an essential reference for botanists plant systematists and evolutionary biologists alike *Pollen and Pollination* Amots Dafni, Michael Hesse, Ettore Pacini, 2012-12-06 Pollen studies make important contributions nature into three main themes pollen structure to our knowledge in many interdisciplinary nature and constituents pollen evolutionary arenas Pollen identification is widely used in ecology and the pollen pollinator interface reconstruction of e.g. vegetation the climate Several papers overlap somewhat or are of the past and plant biodiversity Studies perhaps even somewhat contradictory and concerning pollen structure size and form are reflect the author's own ideas and experience key issues in basic sciences as e.g. plant Some could be understood more deeply by taxonomy and evolution but are also of consulting other closely related articles The importance in applied fields as e.g. plant reader is strongly referred to the respective breeding In pollination studies pollen is literature list of each article generally used specifically to identify food of anther ripening and pollen The last steps development Pacini and the mature pollen sources of visitors and to reconstruct their foraging routes Fewer have been devoted to wall structure Hesse are key factors to pollen collection mechanisms and to the structure understand pollen dispersal mechanisms in nature and content of pollen in relation to its biotic pollination Stroh as well as abiotic pollination Ackerman Pollen size shape function

Integrative Plant Anatomy William C. Dickison, 2000-04-26 From this modern and profusely illustrated book the reader will learn not just the basics which are amply reviewed but also how plant anatomy is integrated with a wide variety of other disciplines such as plant breeding forensic analysis medicine food science wood and fiber products and the arts The author presents the basic concepts and terminology of plant anatomy with a special emphasis on its significance and applications to other disciplines and addresses the central role of anatomy by consolidating previously scattered information into a single volume Integrative Plant Anatomy highlights the important contribution made by studying anatomy to the solutions of a number of present and future problems It succeeds in integrating diverse areas of botany as well as the non biological sciences the arts and numerous other fields of human endeavor Presents both the classical and modern approaches to the subject Teaches the importance of the subject to other disciplines such as the nonbiological sciences the arts and other fields of human endeavor Written and organized to be useful to students and instructors but also to be accessible and appealing to a general audience Bridges the gap between conventional textbooks and comprehensive reference works Includes key terms and extensive additional readings Richly illustrated with line drawings and photographs **Abiotic and Biotic Stress in Plants** Arun Shanker, Chitra Shanker, 2016-02-17 The impact of global climate change on crop production has emerged as a

major research priority during the past decade Understanding abiotic stress factors such as temperature and drought tolerance and biotic stress tolerance traits such as insect pest and pathogen resistance in combination with high yield in plants is of paramount importance to counter climate change related adverse effects on the productivity of crops In this multi authored book we present synthesis of information for developing strategies to combat plant stress Our effort here is to present a judicious mixture of basic as well as applied research outlooks so as to interest workers in all areas of plant science We trust that the information covered in this book would bridge the much researched area of stress in plants with the much needed information for evolving climate ready crop cultivars to ensure food security in the future **Morphological**

Taxonomy of Angiosperms - Textbook of Flowering Plant Families Alexey V.F.Ch. Bobrov,2025-07-09 The investigation of biodiversity particularly in the hotspots begins with the identification of living objects the animals fungi and plants comprising the ecosystem In the field conditions it is important to reveal the attribution of the object to a taxon of higher level to one or another family this identification is later checked in the lab and can be corrected This book describes for the first time in details morphological characters of all modern angiosperm families both in a wide sense 419 families according to newest molecular data and narrow sense more than 900 infrafamilial morphological groups The book is illustrated with original photos which show the principal morphological characters of the overwhelming majority of families of flowering plants which are important for their identification This book will be interesting for taxonomists and phylogeneticists evolutionary biologists practicing nature conservationists as well as for students specializing in various fields of plant sciences The Molecular Genetics of Floral Transition and Flower Development ,2014-06-16 Advances in Botanical Research publishes in depth and up to date reviews on a wide range of topics in plant sciences Currently in its 72nd volume the series features several reviews by recognized experts on all aspects of plant genetics biochemistry cell biology molecular biology physiology and ecology This thematic volume features reviews on the molecular genetics of floral transition and flower development Publishes in depth and up to date reviews on a wide range of topics in plant sciences Features a wide range of reviews by recognized experts on all aspects of plant genetics biochemistry cell biology molecular biology physiology and ecology Volume features reviews on the molecular genetics of floral transition and flower development

Evolution of Plant-Pollinator Relationships Sébastien Patiny,2011-12-08 What are the evolutionary mechanisms and ecological implications behind a pollinator choosing its favourite flower Sixty five million years of evolution has created the complex and integrated system which we see today and understanding the interactions involved is key to environmental sustainability Examining pollination relationships from an evolutionary perspective this book covers both botanical and zoological aspects It addresses the puzzling question of co speciation and co evolution and the complexity of the relationships between plant and pollinator the development of which is examined through the fossil record Additional chapters are dedicated to the evolution of floral displays and signalling as well as their role in pollination syndromes and the building of

pollination networks Wide ranging in its coverage it outlines current knowledge and complex emerging topics demonstrating how advances in research methods are applied to pollination biology

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