

# **The Families and Genera of Vascular Plants**

Edited by K. Kubitzki

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**Volume VII**

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**Flowering Plants  
Dicotyledons**

**Lamiales  
(except Acanthaceae  
including Avicenniaceae)**

**J. W. Kadereit (Ed.)**



**Springer**

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# Flowering Plants Dicotyledons Lamiales Except Acanthaceae Including Avicenniaceae

**Joachim W. Kadereit**



## **Flowering Plants Dicotyledons Lamiales Except Acanthaceae Including Avicenniaceae:**

*Flowering Plants · Dicotyledons* Joachim W. Kadereit, 2004-04-13 In this volume 24 flowering plant families comprising a total of 911 genera are treated They represent the asterid order Lamiales except for Acanthaceae including Avicenniaceae which will be included in a later volume Although most of the constituent families of the order have been recognized as being closely related long ago the inclusion of the families Byblidaceae Carlemanniaceae and Plocospermataceae is the result mainly of recent molecular systematic research Keys for the identification of all genera are provided and likely phylogenetic relationships are discussed extensively To facilitate the recognition of relationships families are cross referenced where necessary The wealth of information contained in this volume makes it an indispensable source for anybody in the fields of pure and applied plant sciences

**Flowering Plants . Dicotyledons** Joachim W Kadereit, 2004-04-13 Flowering Plants · Dicotyledons Joachim W. Kadereit, 2004-04-13 In this volume 24 flowering plant families comprising a total of 911 genera are treated They represent the asterid order Lamiales except for Acanthaceae including Avicenniaceae which will be included in a later volume Although most of the constituent families of the order have been recognized as being closely related long ago the inclusion of the families Byblidaceae Carlemanniaceae and Plocospermataceae is the result mainly of recent molecular systematic research Keys for the identification of all genera are provided and likely phylogenetic relationships are discussed extensively To facilitate the recognition of relationships families are cross referenced where necessary The wealth of information contained in this volume makes it an indispensable source for anybody in the fields of pure and applied plant sciences

*Flowering Plants, Dicotyledons* J. W. Kadereit, 2004 Flowering Plants · Dicotyledons Joachim W. Kadereit, 2004-04-13 In this volume 24 flowering plant families comprising a total of 911 genera are treated They represent the asterid order Lamiales except for Acanthaceae including Avicenniaceae which will be included in a later volume Although most of the constituent families of the order have been recognized as being closely related long ago the inclusion of the families Byblidaceae Carlemanniaceae and Plocospermataceae is the result mainly of recent molecular systematic research Keys for the identification of all genera are provided and likely phylogenetic relationships are discussed extensively To facilitate the recognition of relationships families are cross referenced where necessary The wealth of information contained in this volume makes it an indispensable source for anybody in the fields of pure and applied plant sciences

**Plant Systematics** Michael G. Simpson, 2011-08-09 Plant Systematics is a comprehensive and beautifully illustrated text covering the most up to date and essential paradigms concepts and terms required for a basic understanding of plant systematics This book contains numerous cladograms that illustrate the evolutionary relationships of major plant groups with an emphasis on the adaptive significance of major evolutionary novelties It provides descriptions and classifications of major groups of angiosperms including over 90 flowering plant families a comprehensive glossary of plant morphological terms as well as appendices on botanical illustration and plant descriptions Pedagogy includes review questions exercises and references that

complement each chapter This text is ideal for graduate and undergraduate students in botany plant taxonomy plant systematics plant pathology ecology as well as faculty and researchers in any of the plant sciences The Henry Allan Gleason Award of The New York Botanical Garden awarded for Outstanding recent publication in the field of plant taxonomy plant ecology or plant geography 2006 Contains numerous cladograms that illustrate the evolutionary relationships of major plant groups with an emphasis on the adaptive significance of major evolutionary novelties Provides descriptions and classifications of major groups of angiosperms including over 90 flowering plant families Includes a comprehensive glossary of plant morphological terms as well as appendices on botanical illustration and plant description     *Flowering Plants* · *Dicotyledons* Joachim W. Kadereit, 2012-12-06 In this volume 24 flowering plant families comprising a total of 911 genera are treated They represent the asterid order Lamiales except for Acanthaceae including Avicenniaceae which will be included in a later volume Although most of the constituent families of the order have been recognized as being closely related long ago the inclusion of the families Byblidaceae Carlemanniaceae and Plocospermataceae is the result mainly of recent molecular systematic research Keys for the identification of all genera are provided and likely phylogenetic relationships are discussed extensively To facilitate the recognition of relationships families are cross referenced where necessary The wealth of information contained in this volume makes it an indispensable source for anybody in the fields of pure and applied plant sciences     **Flowering Plants. Eudicots** Joachim W. Kadereit, Charles Jeffrey, 2007-07-12 This volume contains a complete systematic treatment of the flowering plant order Asterales This comprises 12 families with approx 1 720 genera and about 26 300 species Identification keys are provided for all genera and likely phylogenetic relationships are discussed extensively The wealth of information contained in this volume makes it an indispensable source for all working in the fields of pure and applied plant sciences     *Flowering Plants. Eudicots* Klaus Kubitzki, 2007-04-24 In this volume treatments are offered for 52 families containing 432 genera belonging to 13 eudicot orders many of which have recently been newly designed four families remain unassigned to order Emphasis is on the early diverging eudicots and basal core eudicots The wealth of information contained in this volume will make it an important source of reference for both the scholar and the practitioner in the fields of pure and applied plant sciences     **Plants of the World** Maarten J. M. Christenhusz, Michael F. Fay, Mark W. Chase, 2017-11-13 Plants of the World is the first book to systematically explore every vascular plant family on earth more than four hundred and fifty of them organized in a modern phylogenetic order Detailed entries for each family include descriptions distribution evolutionary relationships and fascinating information on economic uses of plants and etymology of their names All entries are also copiously illustrated in full color with more than 2 500 stunning photographs A collaboration among three celebrated botanists at the Royal Botanic Gardens Kew Plants of the World is authoritative comprehensive and beautiful Covering everything from ferns to angiosperms it will be an essential resource for practicing botanists horticulturists and nascent green thumbs alike     **Nectaries and Nectar** Susan W. Nicolson, Massimo Nepi, Ettore

Pacini,2007-04-18 Nectar is the most important reward offered by plants to pollinating animals This book is a modern and interdisciplinary text on nectar and nectaries prompted by the expansion of knowledge especially in the more ecological and now molecular fields and the strong recent interest in pollination biology The topics covered vary widely they include historical aspects the structure and ultrastructure of nectaries and relationships to plant systematics the dynamics of nectar secretion nectar chemistry and the molecular biology of defence proteins adaptations to insect and vertebrate nectar consumers and consequences for pollination ecology and broad scale studies of nectar resources at the community level

**Comprehensive Guide to Hallucinogenic Plants** Nouredine Chaachouay,Abdelhamid Azeroual,Lahcen Zidane,2025-03-12 Hallucinogens have been traditionally used to encourage spiritual growth heighten perception inspire personal development or expand reality Comprehensive Guide to Hallucinogenic Plants focuses on ethnobotanical aspects of hallucinogenic plant species featuring history on how they were used in ancient societies identifying chemical compounds and explaining modern medicinal uses as well as conservation initiatives The book emphasizes the importance of understanding the cultural countryside environmental and scientific importance of these medicinal plants Some of the 50 plants covered in this work include ayahuasca ginger kanna dream herb iboga peyote canary broom coral tree catnip wild rue kava mandrake and golden angel s trumpet Each chapter includes information on historical plant use and identification of chemical compounds and explains modern medicinal uses The text highlights the importance of studying evaluating and utilizing these plants not in isolation but from a global perspective Comprehensive Guide to Hallucinogenic Plants appeals to plant scientists botanists ethnobotanists pharmacologists and those with an interest in alternative or herbal medicine

**Aquatic Dicotyledons of North America** Donald H. Les,2017-09-01 Aquatic Dicotyledons of North America Ecology Life History and Systematics brings together a wealth of information on the natural history ecology and systematics of North American aquatic plants Most books on aquatic plants have a taxonomic focus and are intended primarily for identification Instead this book provides a comprehensive overview of the biology of major aquatic species by compiling information from numerous sources that lie scattered among the primary literature herbarium databases and other reference materials Included dicotyledon species are those having an obligate OBL wetland status a designation used in the USACE National Wetland Plant List Recent phylogenetic analyses are incorporated and rationale is provided for interpreting this information with respect to species relationships This diverse assemblage of information will be useful to a wide range of interests including academic researchers wildlife managers students and virtually anyone interested in the natural history of aquatic and wetland plants Although focusing specifically on North America the cosmopolitan distribution of many aquatic plants should make this an attractive text to people working virtually anywhere outside of the region as well This book is an essential resource for assisting with wetland delineation

**Systematic Pomology (Vol. 1-2) (Set)** O.P. Pareek,Suneel Sharma,2017-01-01 The book is aimed to be a treatise on the Systematic Pomology the primary component of science of

fruits dealing with identification nomenclature and classification of fruit species based on the descriptions of characteristics related to their morphological genetical physiological biochemical biotechnological and eco attributes Besides taxonomic narrative of each species under the respective orders and genera considerable emphasis has been laid on cultivars The treatment is based on the latest version of Nomenclature and Phylogenetic System of Classification APG III The book is richly illustrated with diagrams and colour plates and carries fairly exhaustive bibliography and glossary Thus the book is of high academic value for research workers teachers students and anyone interested in advanced fruit culture to provide insight in identifying and classifying fruit plants providing standard nomenclature and terminology in avoiding the confusion from synonymy and promoting correct labeling to understand their genetic relations in establishing or maintaining a garden a germplasm bank a research orchard or even herbaria in identification of new genotypes or cultivars for introduction and in deciding orchard management practices as well as methods of utilization in using the correct related cultivars kept in a genetic resources repository for improvement considering the limits of hybridization and in selecting genetic material for a breeding programme considering their taxonomic proximities and specific characters related to fruit bearing regularity nutritive and edible quality resistance to biotic and abiotic stresses and plant stature and form *Phylogenomic*

*Discordance in Plant Systematics* Stefan Wanke, Susann Wicke, 2023-11-15 Phylogenetics often uncovers contradicting hypotheses regarding the relationships within the same group of organisms a phenomenon known since the beginning of the molecular systematics era While historically single marker based analyses produced discordance nowadays entire cellular genomes or portions of the same genomic compartment conflict with others or the rest respectively In contrast to the beginning of the molecular systematics era when adding markers and taxa offered a way out of systematic errors genome inference based incongruences cannot be addressed and explained easily Disagreeing phylogenomic hypotheses might originate from various evolutionary processes including but not limited to hybridization or incomplete lineage sorting thereby leading to gene tree versus species tree associated discrepancies Today this can be expanded to genome discordance where phylogenomic signals of organellar genomes plastid mitochondrial and the nuclear genome disagree due to intrinsically different coalescent paths or phenomena like organelle capture *Wild Vegetables: Morphology, Phytochemistry and Utility - (Part 2)* Ganesh Chandrakant Nikalje, Apurva Chonde, Sudhakar Srivastava, Penna Suprasanna, 2025-09-08 Wild Vegetables Morphology Phytochemistry and Utility Part 2 offers a detailed account of around 120 wild vegetable species primarily from the biodiversity rich Western Ghats of India The book highlights their botanical characteristics phytochemical makeup traditional uses and nutritional value Covering families from Fabaceae to Zygophyllaceae it provides an alphabetically organized reference that bridges traditional knowledge with modern scientific insights This volume emphasizes the importance of conserving and reintroducing these forgotten plants into diets and agricultural systems Aimed at both academic and general audiences the book encourages the appreciation and utilization of underused plant resources Key

Features Provides detailed documentation of the morphology phytochemistry and uses of approximately 120 wild vegetable species organized alphabetically by plant family Ethnobotanical insights with medicinal and culinary uses Focus on the Western Ghats a biodiversity hotspot Organized by plant family for easy reference This part covers 27 families from Fabaceae to Zygophyllaceae

**Wild Vegetables: Morphology, Phytochemistry and Utility Part 1** Ganesh Chandrakant Nikalje, Apurva Chonde, Sudhakar Srivastava, Penna Suprasanna, 2025-06-13 This handbook presents a detailed exploration of wild edible plants focusing on their botanical characteristics phytochemical composition medicinal value and culinary applications Centered on the rich biodiversity of the Western Ghats in India the book documents around 120 species of wild vegetables many of which have traditionally supported local diets and healthcare practices Organized into chapters by plant family each entry provides information on plant morphology edible parts phytochemical constituents traditional uses and medicinal relevance The book aims to highlight the importance of these underutilized plant resources at a time when globalization has narrowed dietary diversity leading to the decline in consumption and awareness of traditional species

**Key Features** Provides detailed documentation of the morphology phytochemistry and uses of approximately 120 wild vegetable species organized alphabetically by plant family Focuses on plant resources native to the Western Ghats of India a recognized biodiversity hotspot Provides ethnobotanical details culinary notes and medicinal applications for each species Includes a detailed list of references for researchers This part covers 23 families from Acanthaceae to Euphorbiaceae This multidisciplinary resource is intended for botanists ethnobotanists agricultural scientists nutritionists and students as well as readers interested in plant based nutrition indigenous knowledge systems and sustainable food sources It offers both academic insights and practical information supporting efforts to conserve study and reintegrate wild vegetables into contemporary food and healthcare practices

**Trees of Papua New Guinea** Barry J Conn, Kipiro Q Damas, 2019-04-29 The island of New Guinea has a high diversity of species and a high level of endemism containing more than 5 percent of earth s biodiversity in just over one half of a percent of the land on the earth New Guinea supports the largest area of mature tropical moist forest in the Asia Pacific region Papua New Guinea consists of the eastern part of the island of New Guinea plus the islands of the Bismarck Archipelago Buka and Bougainville There are between fifteen thousand and twenty thousand species of vascular plants in Papua New Guinea with at least two thousand species of trees The most important challenge for Papua New Guinea is the protection of biological diversity against the pressures resulting from global climate change inappropriate destructive conversion of natural communities unsustainable exploitation of forests national economic development and societal demands including a fair sharing of the nation s wealth and law and order issues There are very few resources available to natural resource managers environmental scientists nongovernment agencies and various extractive industries most importantly the timber industry that will assist in the identification of major tree species within Papua New Guinea It is hoped that the publication of these three volumes will enable those who are responsible for natural resource management to improve their

knowledge of the trees in these forests so that they can fully appreciate the richness of these biologically diverse forests The forests of Papua New Guinea need to be managed sensitively and sustainably based on advanced evidence based knowledge The Trees of Papua New Guinea publication provides a comprehensive treatment of 668 species of trees Volume 1 257 species Vol 2 246 species Vol 3 165 species that will assist in the identification of the trees of Papua New Guinea **Flora of the Sydney Region** Belinda Jane Pellow, Murray James Henwood, Roger C. Carolin, 2009 The fifth edition Flora of the Sydney Region is the definitive technical guide to the identification of wild plants in one of the world's botanical heartlands The Flora covers an area of coastal New South Wales stretching from Newcastle to Nowra and west to Lithgow This comprehensive treatment contains diagnostic keys and descriptions that make it possible for the reader to identify any of the 3 000 indigenous or naturalised plant species found in this botanically diverse region The identification keys efficiently guide the reader through those plant characteristics necessary to arrive at the correct scientific name The identification process is further aided by a glossary and an extensive index of scientific and common plant names Species descriptions include habitat details and flowering times An instructive introduction provides support for the novice botanist When first published in 1963 Flora of the Sydney Region was the only complete regional Flora in Australia This fully revised edition of the Flora incorporates the wealth of botanical research which has taken place since the publication of the fourth edition in 1994 As a trusty field guide and authoritative desktop reference it will be a constant companion to environmental consultants amateur and professional botanists ecologists bushwalkers bush regenerators and teaching institutions Phytomedicine Parimelazhagan Thangaraj, 2020-04-22 Phytomedicine has become more important and gained constant improvement today for the betterment of health Herbal medicine plays a significant role in the development of new drugs contrary to the modern medicinal systems For more than a decade there has been a drastic improvement in phytomedicine across the world This growth has reached a higher level in development by pharmaceutical industries everywhere People have drifted toward herbal medication and practices for their food and health care Therefore in order to create abundant interest in the research of phytosciences this book is one of the better reference tools The bioactive compounds in plants need to be explored to know the scientific value and therapeutic properties of the medicinal plants against many diseases This book contains chapters that are relevant to the advanced research in herbal medicines and will enlighten readers to the importance of medicinal plants as daily sources of nutrition and cures for diseases This book highlights the unique features of the plants that have not been studied so far for their therapeutic potential To prove the efficacy of medicinal plants they have to be studied examined and scientifically verified Hence this book will better serve the researchers working under different aspects of phytomedicine Features The information provided through scientific validation is useful to study the pharmacological activity of herbals and their administration in the modern era The readers can find clear understanding in the research and development of phytopharmaceutical drugs The ideas incorporated in each chapter reveal the knowledge gained in studying the biological



activities of the compounds present in the plant which are indeed most worthy for the development of drugs The harvesting of new ideology toward modern scientific technologies that are employed in the field of pharmacological research

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