

Classification by Smith (1955), Bold (1957) and Zimmerman (1959)



**Psilophyta**

Most primitive  
Rootless with rhizoids  
Dichotomously branched photosynthetic stem  
Leaves often absent  
Protostele  
Homosporous synangium  
Eg: Fossil genera: *Rhynia* and *Horneophyton*  
Living genera *Psilotum* and *Tmesipteris*



*Psilotum*

**Lycophyta**  
(Club moss or spike moss)

Differentiated plant body  
Microphyllous leaves  
Protostele sometimes siphonostele  
Sporophylls aggregate to form strobili or cones  
Homosporous (*Selaginella*) or heterosporous  
Gametophyte depends on fungus for food



*Selaginella*

**Sphenophyta**  
(Horse tail)

All are fossils except *Equisetum*  
Differentiated plant body  
Stem jointed with nodes and internodes  
Scaly leaves seen as whorl around the node  
Sporangia forming strobili or cones  
homosporous,



*Equisetum*

**Pterophyta**  
(Ferns or Filicophyta)

Most widely distributed vascular cryptogams  
Differentiated plant body stem mostly rhizomatous  
Leaves macrophyllous called as fronds  
Young leaves show circinate vernation (spirally coiled)  
Stele: protostele, siphonostele or dictyostele  
Sporangia form sori on abaxial side of the leaf  
Sporocarp in Marselia  
Indusium may be true or false  
True indusium and false indusium  
Homosporous (*Pteris*) or heterosporous (*Marselia*)  
Antherozoids multiflagellated



*Pteris*

# Pteridophytes And Gymnosperms Families And Genera Of Vascular Plants

**Else Marie Friis, Peter R. Crane, Kaj  
Raunsgaard Pedersen**



## **Pteridophytes And Gymnosperms Families And Genera Of Vascular Plants:**

**Pteridophytes and Gymnosperms** K.U. Kramer,P.S. Green,2013-06-29 This encyclopedia offers access to the diversity of ferns and seed plants the most important groups of green land plants Available information of general and systematic relevance is synthesized at the level of families Evidence from virtually all disciplines important to modern taxonomy makes the work a most valuable source of reference not only for taxonomists but for all who are interested in the various aspects of plant diversity A revised classification includes a complete inventory of genera along with their diagnostic features keys for identification and references to the literature The first volume deals with pteridophytes and gymnosperms **Vascular Plant Taxonomy** Dirk R. Walters,1996 **Plant Systematics** Michael G. Simpson,2019-11-14 Plant Systematics Third Edition has made substantial contributions to plant systematics courses at the upper undergraduate and first year graduate level with the first edition winning The New York Botanical Garden s Henry Allan Gleason Award for outstanding recent publication in plant taxonomy plant ecology or plant geography This third edition continues to provide the basis for teaching an introduction to the morphology evolution and classification of land plants A foundation of the approach methods research goals evidence and terminology of plant systematics are presented along with the most recent knowledge of evolutionary relationships of plants and practical information vital to the field In this new edition the author includes greatly expanded treatments on families of flowering plants as well as tropical trees all with full color plates and an updated explanation of maximum likelihood and Bayesian inference algorithms Chapters on morphology and plant nomenclature have also been enhanced with new material [Pteridophytes and Gymnosperms](#) K.U. Kramer,P.S. Green,2014-03-12 **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 **Morphometrics for Nonmorphometricians** Ashraf M.T. Elewa,2010-06-01 Morphometrics is concerned with the study of variations and change in the form size and shape of organisms or objects adding a quantitative element to descriptions and thereby facilitating the comparison of different objects and organisms This volume provides an introduction to morphometrics in a clear and simple way without recourse to complex mathematics and statistics This introduction is followed by a series of case studies describing the variety of applications of morphometrics from paleontology and evolutionary ecology to archaeological artifacts analysis This is followed by a presentation of future applications of morphometrics and state of the art software for analyzing and comparing shape *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 to avoid 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. *Early Flowers and Angiosperm Evolution* Else Marie Friis, Peter R. Crane, Kaj Raunsgaard Pedersen, 2011-08-18. The recent discovery of diverse fossil flowers and floral organs in Cretaceous strata has revealed astonishing details about the structural and systematic diversity of early angiosperms. Exploring the rich fossil record that has accumulated over the last three decades, this is a unique study of the evolutionary history of flowering plants from their earliest phases in obscurity to their dominance in modern vegetation. The discussion provides comprehensive biological and geological background information before moving on to summarise the fossil record in detail. Including previously unpublished results based on research into Early and Late Cretaceous fossil floras from Europe and North America, the authors draw on direct palaeontological evidence of the pattern of angiosperm evolution through time. Synthesising palaeobotanical data with information from living plants, this unique book explores the latest research in the field, highlighting connections with phylogenetic systematics, structure and the biology of extant angiosperms. *Toxic Plants of North America* George E. Burrows, Ronald J. Tyrl, 2013-01-29. Toxic Plants of North America Second Edition is an up to date comprehensive reference for both wild and cultivated toxic plants on the North American continent. In addition to compiling and presenting information about the toxicology and classification of these plants published in the years since the appearance of the first edition, this edition significantly expands coverage of human and wildlife both free roaming and captive intoxications and the roles of secondary compounds and fungal endophytes in plant intoxications. More than 2 700 new literature citations document identification of previously unknown toxicants, mechanisms of intoxication, additional reports of intoxication problems and significant changes in the classification of plant families and genera and associated changes in plant nomenclature. Toxic Plants of North America Second Edition is a comprehensive essential resource for veterinarians, toxicologists, agricultural extension agents, animal scientists and poison

control professionals      *Ferns of Southern Africa: A Comprehensive Guide (PVC)* Neil R. Crouch, 2012-07-24 This comprehensive guide to the ferns of southern Africa covering South Africa Swaziland Lesotho Botswana and Namibia throws new light on a fascinating category of plants that is little known by the general public User friendly and accessible it will enable quick and sure identification of all 321 ferns known to occur in the region Each species features a double page spread with a full plate of photographs including close ups informative line drawings where necessary clear text descriptions tables that highlight differences between similar looking species and distribution maps based on years of intensive fieldwork In addition there are identification keys to families genera and species To compile this book the authors travelled extensively and took some 30 000 photographs even finding several new species of fern They are all treated in this guide some described here for the first time This unique and beautiful volume will become the standard reference book on the ferns of southern Africa

**Plant Systematics** Gurcharan Singh, 2019-06-07 This fourth edition of Plant Systematics is completely revised and updated It incorporates the updated International Code of Nomenclature for Algae Fungi and Plants Shenzhen Code 2018 the new version of PhyloCode Beta version of Phylocode 5 2014 APweb version 14 September 2018 revised Angiosperm Phylogeny Group classification APG IV 2016 new Pteridophyte Phylogeny Group Classification PPG I 2016 besides the updates since the publication of third edition The book is a blend of classical fundamental aspects and recent developments especially in the field of molecular systematics cladistics and computer identification Special attention has been given to information on botanical nomenclature identification molecular systematics and phylogeny of angiosperms The complicated concepts of phylogeny taxometrics and cladistics have been explained with a view to providing a comparison between these diverse but interactive fields of study An attempt has been made to build upon a common example when exploring different methods especially in procedures of identification taxometrics and cladistics The major systems of classification are evaluated critically Discussion on major families of Pteridophytes Gymnosperms and Angiosperms especially those of major phylogenetic interest form a major portion of this edition The ebook includes nearly 500 color photographs set out in 36 pages covering plants from different parts of the world In addition 305 black white illustrations have been included to provide a better understanding of the plants covered in the book

**Plants of the World** Maarten J. M. Christenhusz, Michael F. Fay, Mark W. Chase, 2017-11-13 Evolution of land plant Plants and human culture Naming plants Classification and the angiosperm phylogeny group

**Developmental Genetics and Plant Evolution** Quentin C.B. Cronk, Richard M. Bateman, Julie A. Hawkins, 2004-01-29 A benchmark text Developmental Genetics and Plant Evolution integrates the recent revolution in the molecular developmental genetics of plants with mainstream evolutionary thought It reflects the increasing cooperation between strongly genomics influenced researchers with their strong grasp of technology and evolutionary morphogenetists and sys

*Flowering Plant Origin, Evolution & Phylogeny* David W. Taylor, Leo Hickey, 2007-08-28 Contributors ix Chapter Introduction The Challenge of Flowering Plant History David Winship Taylor and

Leo J Hickey Chapter 2 A Survey of Reticulate Venation Among Fossil and Living Land Plants Mary Louise Trivett and Kathleen B Pigg Chapter 3 A New Gnetophyte from the Late Carnian Late Triassic of Texas and its Bearing on the Origin of the Angiosperm Carpel and Stamen 32 Bruce Cornet Chapter 4 Wood Anatomy of Primitive Angiosperms New Perspectives and Syntheses 68 Sherwin Carlquist Chapter 5 Evidence for the Earliest Stage of giosperm Pollen Evolution A Paleoequatodal Section from Israel 91 Gilbert J Brenner Chapter 6 The Origin and Evolution of the Angiosperm Carpel 116 David Winship Taylor and Gretchen Kirchner Chapter Floral Structure Development and Relationships of Paleoherbs Saruma Cabomba Lactoris and Selected Piperales 141 Shirley Tucker and Andrew Douglas Chapter 8 Origin of the Angiosperm Flower 176 Leo J Hickey and David Winship Taylor Chapter Evidence for and Implications of an Herbaceous Origin for Angiosperms 232 David Winship Taylor and Leo Z Hickey Chapter Comparison of Alternative Hypotheses for the Origin of the Angiosperms 267 Henry Loconte 10 9 W C 7 1 CONTENTS vi Contents Chapter The Least Specialized Angiosperms 286 Robert F Thorne Chapter Molecular Phylogenies and the Diversification of the Angiosperms 314 Kenneth J Sytsma and David A Baum 341 References Appendix Stratigraphic Time Scale 387 Index 12 11

**Plants of Oceanic Islands** Tod F. Stuessy, Daniel J. Crawford, Patricio López-Sepúlveda, Eduardo A. Ruiz, 2017-10-26 This book provides a comprehensive view of the origin and evolution of the plants of an entire oceanic archipelago

**Excerpta botanica**, 1992 Pteridophytes and Gymnosperms K.U. Kramer, Peter Shaw Green, P.S. Green, 1990-09-28 This encyclopedia offers access to the diversity of ferns and seed plants the most important groups of green land plants Available information of general and systematic relevance is synthesized at the level of families Evidence from virtually all disciplines important to modern taxonomy makes the work a most valuable source of reference not only for taxonomists but for all who are interested in the various aspects of plant diversity A revised classification includes a complete inventory of genera along with their diagnostic features keys for identification and references to the literature The first volume deals with pteridophytes and gymnosperms

**Pteridology in the New Millennium** S. Chandra, M. Srivastava, 2013-04-17 The National Botanical Research Institute came into being as the 13th among a chain of National Laboratories established during April 1953 under the Council of Scientific and Industrial Research by the Govt of India for advanced research in fields of specialisation which have a direct bearing on socio economic industrial and scientific advancement of the nation Christened initially as National Botanic Gardens the nucleus around which the institution took shape under its founder Director Late Prof K N Kaul was a large herbarium of Indian flora and a century old botanical garden spread over 35 ha of land on the banks of River Gomti in the heart of Lucknow city It is a matter of great pleasure and profound satisfaction to me that a Golden Jubilee volume entitled Pteridology in the New Millennium is being published and released during the Golden Jubilee year of NBRI in the honour of Professor B K Nayar who laid the foundation of the Pteridology Laboratory of the NBRI which is now a well equipped laboratory for the study of Indian pteridophytes Professor Nayar is a holistic Botanist as evident through his contributions and publications in almost all the

areas of study of Pteridophyta The contribution of Professor Nayar towards the development of modern Pteridology and the role of NBRI in it is indeed great and very important His publications will be valuable for the younger generation of scientists in the field as well as for the more mature research workers and teachers      **Life on Earth** Niles Eldredge, 2002-12-17 An examination of nature's extraordinary biological diversity and the human activities that threaten it Life on Earth An Encyclopedia of Biodiversity Ecology and Evolution tackles the critical issue for humanity in the 21st century our ever more menacing impact on the environment This two volume illustrated set edited by American Museum of Natural History curator Niles Eldredge begins with biodiversity the complex planetary web of life that has emerged through three billion years of evolution How does it work And why is its continued health critical to the planet and to ourselves More than 50 top scholars examine every form of life from amoebae to elephants from plankton to whales But Life on Earth is more than a catalog of species An A Z survey explores the myriad ways humanity is diminishing that biodiversity from industrialization to natural habitat destruction from overpopulation in the developing world to an unsustainable consumer lifestyle in the West Life on Earth is the essential reference work for anyone curious about our planet's extraordinary diversity of life and the unprecedented threats it faces      **SIDA, Botanical Miscellany** , 2006

## The Enigmatic Realm of **Pteridophytes And Gymnosperms Families And Genera Of Vascular Plants**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Pteridophytes And Gymnosperms Families And Genera Of Vascular Plants** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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