

Piper

A Model Genus for
Studies of Phytochemistry,
Ecology, and Evolution



Edited by
Lee A. Dyer and Aparna D. N. Palmer

Piper A Model Genus For Studies Of Phytochemistry Ecology And Evolution

SA Dillow



Piper A Model Genus For Studies Of Phytochemistry Ecology And Evolution:

Piper: A Model Genus for Studies of Phytochemistry, Ecology, and Evolution Lee Dyer, Aparna Palmer, 2004-08-30 Piper is an economically and ecologically important genus of plant that includes a fascinating array of species for studying natural history natural products chemistry community ecology and evolutionary biology The diversification of this taxon is unique and of great importance in understanding the evolution of plants The diversity and ecological relevance of this genus makes it an obvious candidate for ecological and evolutionary studies but surprisingly most research on Piper spp to date has focused on the more economically important plants P nigrum black pepper P methysticum kava and P betle betel leaf While this book does address the applied techniques of studying Piper its focus is more on Piper in its natural setting Piper A Model Genus for Studies of Phytochemistry Ecology and Evolution synthesizes existing data and provides an outline for future investigations of the chemistry ecology and evolution of this taxon while examining its key themes of Piper as a model genus for ecological and evolutionary studies the important ecological roles of Piper species in lowland wet forests and the evolution of distinctive Piper attributes This volume has a place in the libraries of those studying or working in the fields of ecology evolutionary biology natural products chemistry invasive species biology pharmaceuticals and ethnobotany

Piper: A Model Genus for Studies of Phytochemistry, Ecology, and Evolution Lee A. Dyer, Aparna Palmer, 2012-12-06 Piper is an economically and ecologically important genus of plant that includes a fascinating array of species for studying natural history natural products chemistry community ecology and evolutionary biology The diversification of this taxon is unique and of great importance in understanding the evolution of plants The diversity and ecological relevance of this genus makes it an obvious candidate for ecological and evolutionary studies but surprisingly most research on Piper spp to date has focused on the more economically important plants P nigrum black pepper P methysticum kava and P betle betel leaf While this book does address the applied techniques of studying Piper its focus is more on Piper in its natural setting Piper A Model Genus for Studies of Phytochemistry Ecology and Evolution synthesizes existing data and provides an outline for future investigations of the chemistry ecology and evolution of this taxon while examining its key themes of Piper as a model genus for ecological and evolutionary studies the important ecological roles of Piper species in lowland wet forests and the evolution of distinctive Piper attributes This volume has a place in the libraries of those studying or working in the fields of ecology evolutionary biology natural products chemistry invasive species biology pharmaceuticals and ethnobotany

Phytochemistry of Plants of Genus Piper Brijesh Kumar, Surabhi Tiwari, Vikas Bajpai, Bikarma Singh, 2020-06-08 Piper is the representative genus of family Piperaceae Piper species are pan tropical in distribution and found in both the hemispheres As the king of all spices black pepper Piper nigrum led to the global expeditions culminating in the discovery of India and the new world Piper species have been reported to possess various pharmacological activities such as insecticidal antibacterial anti inflammatory antiplatelet anti hypertensive antithyroid antitumor activities and hepatoprotective properties

Botanical authentication of the plants of Piper species is difficult because of the morphological similarity among the species This book describes ultra performance liquid chromatography coupled with triple quadrupole electrospray tandem mass spectrometry in multiple reactions monitoring MRM mode to study the quantitative variation of thirteen bioactive markers in different plant parts of ten Piper species Features Collection of Ayurvedic features and scientific evidence of the most important medicinal plants of Piper species Describes chemical signatures for identification of Piper species Provides easy to use analytical procedure for quality control of Piper species and its products

Tropical Forest Community Ecology

Walter Carson, Stefan Schnitzer, 2011-08-31 Historically tropical ecology has been a science often content with descriptive and demographic approaches which is understandable given the difficulty of studying these ecosystems and the need for basic demographic information Nonetheless over the last several years tropical ecologists have begun to test more sophisticated ecological theory and are now beginning to address a broad array of questions that are of particular importance to tropical systems and ecology in general Why are there are so many species in tropical forests and what mechanisms are responsible for the maintenance of that vast species diversity What factors control species coexistence Are there common patterns of species abundance and distribution across broad geographic scales What is the role of trophic interactions in these complex ecosystems How can these fragile ecosystems be conserved Containing contributions from some of the world s leading tropical ecologists Tropical Forest Community Ecology provides a summary of the key issues in the discipline of tropical ecology Includes contributions from some of the world s leading tropical ecologists Covers patterns of species distribution the maintenance of species diversity the community ecology of tropical animals forest regeneration and conservation of tropical ecosystems

Handbook of Spices in India: 75 Years of Research and Development

P N Ravindran, K Sivaraman, S Devasahayam, K Nirmal Babu, 2024-06-24 This compendium presents comprehensive information on more than 25 important spice crops commercially grown in India and traded globally apart from over 40 spices that have the potential to be popularized In 70 chapters the book covers the achievements in research and development made in India for the past 75 years in various organizations including research institutes agricultural universities and private sector laboratories Spices are natural products of plant origin used primarily for flavouring and seasoning or for adding pungency and flavour to foods and beverages The flavour and fragrance of Indian spices had a magic spell on human culture since very ancient days The importance of spices in Indian life and its contribution to the economy are substantial India as the world s leading producer of spices is also a significant stakeholder in spices export trade globally Indian spices being sources of many high value compounds are also gaining much importance for other diversified uses especially for their pharmaceutical and nutraceutical properties A wide variety of 52 spices are grown in India including black pepper chillies cardamom ginger turmeric cinnamon nutmeg garlic onion cumin coriander saffron and vanilla This book complies a comprehensive holistic review on the subject written by the best experts in the field in India representing diverse agencies This book is a single point

reference book for all those involved in the research study teaching and use of spices in India and abroad *Essential Oils* Valdir Florêncio da Veiga Jr., Isiaka Ajani Ogunwande, José L. Martinez, 2023-12-01 Essential oils well known for their remarkable properties have played a ubiquitous role throughout human history They connect us to our past invoking memories of childhood places and the aromas of our grandparents kitchens From the fragrant scents of ancient Egypt to the natural preservatives found in 15th century Oriental spices essential oils have the ability to stimulate numb and captivate our senses through their effects on the central nervous system This book presents several innovative studies on the isolation biological and pharmacological properties of essential oils conducted by multidisciplinary groups from different countries

Nutritional analysis of different plant parts among black pepper (*Piper nigrum*) varieties in Kerala: an overview Prem Jose Vazhacharickal, K.R Anilakumar, Deepthi James, 2017-11-21 Black pepper *Piper nigrum* the flowering vine belongs to the family piperaceae cultivated for its fruit which is usually dried and used as spice and seasoning The black pepper high variability was also noticed for yield contributing characters like runner shoot production holding capacity adventitious root production lateral branch habit spike length number of spikes per lateral branch fruit set dry weight Pharmacological toxicological clinical applications and general uses of pepper are bioavailability enhancement carminative anti cancer natural antioxidant black pepper as an anti Inflammatory drug cholesterol lowering and Immune enhancer anti pyretic anti periodic and rubefacient black pepper Improves digestion and promotes intestinal health preservation of the flavour content Four different pepper varieties in Kerala were selected based on a baseline survey The proximate composition includes estimation of dry matter and moisture content estimation of crude protein estimation of crude fibre estimation of crude ash and insoluble ash ether extract determination of dietary fibre gross energy analysis of component of different varieties of *Piper nigrum* were determined The sample Munthirimunda fruit has high moisture content The sample Chengannor leaf has high dry matter content The sample Chengannor leaf has high crude protein content The sample Panniyor leaf has high crude fibre content Ether Extract is high in sample Chengannor leaf The sample Munthirimunda leaf has high comparatively high Total Ash content Gross Energy is high in sample Panniyor fruit A wide gap in the nutritional properties of *Piper nigrum* varieties exist in Kerala which could be further explored *The Ornaments of Life* Theodore H. Fleming, W. John Kress, 2013-10-03 The average kilometer of tropical rainforest is teeming with life it contains thousands of species of plants and animals As *The Ornaments of Life* reveals many of the most colorful and eye catching rainforest inhabitants toucans monkeys leaf nosed bats and hummingbirds to name a few are an important component of the infrastructure that supports life in the forest These fruit and nectar eating birds and mammals pollinate the flowers and disperse the seeds of hundreds of tropical plants and unlike temperate communities much of this greenery relies exclusively on animals for reproduction Synthesizing recent research by ecologists and evolutionary biologists Theodore H Fleming and W John Kress demonstrate the tremendous functional and evolutionary importance of these tropical pollinators and

frugivores They shed light on how these mutually symbiotic relationships evolved and lay out the current conservation status of these essential species In order to illustrate the striking beauty of these ornaments of the rainforest the authors have included a series of breathtaking color plates and full color graphs and diagrams **Phyllostomid Bats** Theodore H. Fleming, Liliana M. Dávalos, Marco A.R. Mello, 2020-10-16 With more than two hundred species distributed from California through Texas and across most of mainland Mexico Central and South America and islands in the Caribbean Sea the Phyllostomidae bat family American leaf nosed bats is one of the world's most diverse mammalian families From an insectivorous ancestor species living today over about 30 million years have evolved a hyper diverse range of diets from blood or small vertebrates to consuming nectar pollen and fruit Phyllostomid plant visiting species are responsible for pollinating more than five hundred species of neotropical shrubs trees vines and epiphytes many of which are economically and ecologically important and they also disperse the seeds of at least another five hundred plant species Fruit eating and seed dispersing members of this family thus play a crucial role in the regeneration of neotropical forests and the fruit eaters are among the most abundant mammals in these habitats Coauthored by leading experts in the field and synthesizing the latest advances in molecular biology and ecological methods Phyllostomid Bats is the first overview in more than forty years of the evolution of the many morphological behavioral physiological and ecological adaptations in this family Featuring abundant illustrations as well as details on the current conservation status of phyllostomid species it is both a comprehensive reference for these ecologically vital creatures and a fascinating exploration of the evolutionary process of adaptive radiation

Mutualisms and Insect Conservation Tim R. New, 2017-07-10 Documenting and understanding intricate ecological interactions involving insects is a central need in conservation and the specialised and specific nature of many such associations is displayed in this book Their importance is exemplified in a broad global overview of a major category of interactions mutualisms in which the interdependence of species is essential for their mutual wellbeing The subtleties that sustain many mutualistic relationships are still poorly understood by ecologists and conservation managers alike Examples from many parts of the world and ecological regimes demonstrate the variety of mutualisms between insect taxa and between insects and plants in particular and their significance in planning and undertaking insect conservation of both individual species and the wider contexts on which they depend Several taxonomic groups notably ants lycaenid butterflies and sucking bugs help to demonstrate the evolution and flexibility of mutualistic interactions whilst fundamental processes such as pollination emphasise the central roles of often highly specific partnerships This compilation brings together a wide range of relevant cases and contexts with implications for practical insect conservation and increasing awareness of the roles of co adaptations of behaviour and ecology as adjuncts to designing optimal conservation plans The three major themes deal with the meanings and mechanisms of mutualisms the classic mutualisms that involve insect partners and the environmental and conservation lessons that flow from these and have potential to facilitate and improve insect conservation practice The

broader ecological perspective advances the transition from primary focus on single species toward consequently enhancing wider ecological contexts in which insect diversity can thrive

Insect Outbreaks Revisited Pedro Barbosa, Deborah K. Letourneau, Anurag A. Agrawal, 2012-06-29 The abundance of insects can change dramatically from generation to generation these generational changes may occur within a growing season or over a period of years Such extraordinary density changes or outbreaks may be abrupt and ostensibly random or population peaks may occur in a more or less cyclic fashion They can be hugely destructive when the insect is a crop pest or carries diseases of humans farm animals or wildlife Knowledge of these types of population dynamics and computer models that may help predict when they occur are very important This important new book revisits a subject not thoroughly discussed in such a publication since 1988 and brings an international scale to the issue of insect outbreaks Insect Outbreaks Revisited is intended for senior undergraduate and graduate students in ecology population biology and entomology as well as government and industry scientists doing research on pests land managers pest management personnel extension personnel conservation biologists and ecologists and state county and district foresters

Nanomedicine for Neurodegenerative Disorders Rishabha Malviya, Kamla Pathak, Swati Verma, 2025-05-07 With the population getting older and with a corresponding increase in neurodegenerative diseases NDs worldwide developing drug delivery systems that can overcome conventional barriers in treating these diseases is the need of the hour Drug delivery by nanotechnology has great promise for detecting and treating a wide range of neurodegenerative conditions This new book provides an informative overview of the cutting edge applications of various nanocarriers that encapsulate active compounds to effectively treat NDs

[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 countrywide 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

Chemistry, Biological Activities and Therapeutic Applications of Medicinal Plants in Ayurveda Augustine Amalraj, Sasikumar Kuttappan, Karthik Varma A C, 2022-11-16 Ayurvedic Medicine or Ayurveda is a traditional Indian health care system Research into the medicinal plants utilised in Ayurveda is becoming a global endeavour

and large pharmaceutical companies are investing in novel drug discovery from Ayurvedic sources as a number of clinical studies have demonstrated efficacy of natural products from Ayurvedic plant extracts against common ailments such as arthritis and diabetes Ayurvedic medicine and its components have been well described in the past but this book represents a comprehensive source on the biochemistry and mechanisms of the pharmacological effects of natural products from Ayurvedic sources This book is a valuable resource for researchers in natural products and alternative sources of bioactive compounds in drug discovery as well as pharmaceutical experts and those in industry

The Ecology of Plant Chemistry and How It Drives Multi-Species Interactions Massuo J. Kato,Tara J. Massad,Mariana A. Stanton,Daniel G. Vassão,Lydia F. Yamaguchi,2019-11-28

Medicinal Spices and Vegetables from Africa Victor Kuete,2017-01-14 Medicinal Spices and Vegetables from Africa Therapeutic Potential against Metabolic Inflammatory Infectious and Systemic Diseases provides a detailed look at medicinal spices and vegetables that have proven safe and effective for consumption and the treatment of diseases including infectious diseases cardiovascular disease and cancer It provides pharmacological evidence such as the latest information related to efficacy and safety data in vitro and in vivo studies clinical trials and more to illustrate the use of these spices and vegetables as both palliative and alternative treatments with the goal of furthering research in this area to produce safer and more effective drugs Provides scientific evidence for the potential of medicinal spices and vegetables used in Africa to fight metabolic inflammatory and infectious diseases Includes a review of the latest methods used to investigate the effects of medicinal plants in the treatment of disease Offers an updated resource for students sand scientists in the fields of pharmaceutical science pharmacognosy complementary and alternative medicine ethnopharmacology phytochemistry biochemistry and more

Pomotherapeutic Insights on Wild Edible Fruits Parimelazhagan Thangaraj,2025-03-05 This book uses an interdisciplinary approach that merges botany nutrition and pharmacology to explore the potential of wild fruits Wild edible fruits can have several therapeutic and health benefits which may vary depending on its nutritional content These wild fruits are the major precursors to their commercial counterparts and also the major source of nutrition globally Wild fruits are more essentially known for their bioactive components and beneficial effects of various phytochemicals These phytochemicals have been associated with many health benefits and play a significant role in the prevention and management of various diseases This book bridges the gap between natural therapeutic compounds and modern medicine With a spotlight on their antioxidant antidiabetic and other bioactivity and qualities this comprehensive work delves deep into the bioactive compounds that make fruits veritable powerhouses of health benefits This book primarily caters to the need of students and researchers pursuing studies in the fields of pharmacology nutrition or natural medicine

FARMAKOGNOSI TUMBUHAN OBAT L. Hartanto Nugroho,Yustina Sri Hartini,2021-10-19 Buku dengan judul Farmakognosi Tumbuhan Obat Kajian Spesifik Genus Piper memberikan gambaran tentang pentingnya obat herbal obat alam obat tradisional Berbagai keunggulan obat tradisional juga diuraikan pada bab pendahuluan yang termasuk di dalamnya

pemanfaatan Piper dalam pengobatan tradisional Tinjauan tentang Piper yang menyangkut morfologi anatomi ekologi termasuk di dalamnya berbagai macam penelitian yang telah penulis lakukan dibahas pada bagian berikutnya Kandungan senyawa kimia khususnya senyawa yang bersifat bioaktif pada berbagai macam spesies anggota genus Piper juga menjadi topik yang menarik dalam buku ini Untuk melengkapi pemahaman tentang farmakognosi pada umumnya buku ini juga membahas perkembangan farmakognosi pada level makro sampai pada tingkat molekuler Berbagai macam teknik pemisahan senyawa dari tingkat konvensional hingga tingkat modern metode ekstraksi hijau green extraction system juga menjadi perhatian dalam buku ini Pada bagian terakhir diuraikan tentang aktivitas farmakologis dari berbagai macam spesies anggota genus Piper

Costa Rican Ecosystems Maarten Kappelle, 2016-04-15 In 1502 Christopher Columbus named Costa Rica and while gold and silver never materialized to justify the moniker of rich coast in purely economic terms scientists and ecotourists alike have long appreciated its incredible wealth Wealth in Costa Rica is best measured by its biodiversity home to a dizzying number of plants and animals many endemic it is a country that has long encouraged and welcomed researchers from the world over and is exemplary in the creation and commitment to indigenous conservation and management programs Costa Rica is considered to have the best preserved natural resources in Latin America Approximately nine percent about 1 000 000 acres of Costa Rica has been protected in 15 national parks and a comparable amount of land is protected as wildlife refuges forest reserves or Indian reservations This long awaited synthesis of Costa Rican ecosystems is an authoritative presentation of the paleoecology biogeography structure conservation and sustainable use of Costa Rica's ecosystems It systematically covers the entire range of Costa Rica's natural and managed terrestrial freshwater and marine ecosystems including its island systems Cocos Islands the Atlantic and Pacific oceans and shores coasts coral reefs mangrove forests its lowlands dry season and wet forests its highlands the northern volcanoes and southern Talamanca's and its estuaries rivers lakes swamps and bogs The volume's integrated comprehensive format will be welcomed by tropical and temperate biologists alike by biogeographers plant and animal ecologists marine biologists conservation biologists foresters policy makers and all scientists natural history specialists and all with an interest in Costa Rica's ecosystems

Seed Dispersal by Bats in the Neotropics Tatyana A. Lobova, Cullen K. Geiselman, Scott A. Mori, 2009 This book provides a comprehensive treatment of all known bat dispersed plants in the New World tropics and covers a total of 549 species in 191 genera from 62 plant families It places a special emphasis on the flowering plants and bat fauna of the relatively undisturbed forests of central French Guiana In particular detailed descriptions of 112 bat dispersed species from that area are complemented by color photographs that will help other researchers identify fruits and seeds throughout the Neotropics Going beyond merely describing these species the authors compare and analyze the diverse traits of plants dispersed by bats to reexamine bat preferences of some fruiting plants over the others a phenomenon known as the bat fruit syndrome The seed dispersers too are given ample treatment with descriptions of the foraging ecology and feeding

behaviors of the 37 fruit eating bats found in central French Guiana The monograph includes complementing appendices that allow the reader to determine all bat species reported to feed on the fruits of a particular plant and all fruiting plants in the diet of a particular bat species It summarizes decades of research on bat plant interactions from many parts of the Neotropics providing a stimulus for further ecological and evolutionary studies

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