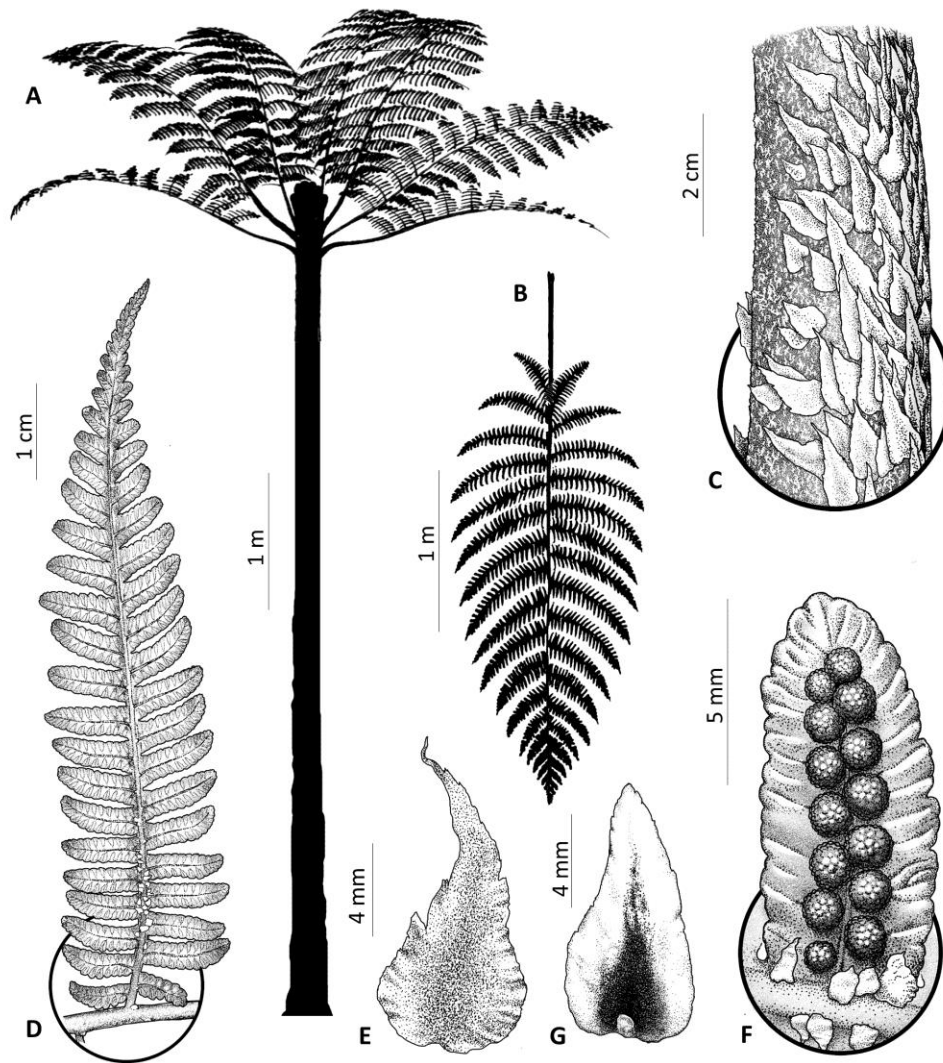


Annual Review of Pteridological Research



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Elisabeth A. Hooper & Jenna M. Canfield

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Cover illustration: *Cyathea lehnertii* A. Tejedor & G. Calatayud *sp. nov.* Illustrated by Adrian Tejedor and published in Tejedor, A., & Calatayud, G. (2017). Eleven new scaly tree ferns (*Cyathea*: Cyatheaceae) from Peru. American Fern Journal 107(3): 156–191. Used with permission.

This volume of the *Annual Review of Pteridological Research* (ARPR) provides a list of 832 literature citations on ferns and lycophytes published in 2017, an index to authors (over 2800!) and keywords, a description of research interests and contact information of pteridologists who answered our annual questionnaire.

In 2017, research on ferns and lycophytes continued to yield important worldwide contributions. Some highlights in the areas of floristics, taxonomy, physiology, reproductive biology, ecology, environmental biology, paleobotany, palynology, and medicine include the following:

- Many new family treatments for the “Floras of the cangas of the Serra dos Carajás, Pará, Brazil” and the “Prodromus of a fern Flora for Bolivia.”
- Five new fern genera— *Hovenkampia*, *Gastoniella*, *Adetogramma* and the fossils *Kidstoniopteris* and *Sengelia*.
- Fifty-nine new extant or fossil species, mostly from South America (28 spp.) and Southeast Asia (13 spp.).
- Several new molecular phylogenetic analyses including a phylogenomic analysis of 38 families, a study of plastome genomic structure in Schizaeaceae, and global analyses of moonworts, Pteridoidea, Blechnaceae, *Ctenitis*, *Pyrossia*, and *Tectaria*.
- Physiological studies on stomatal dynamics, desiccation tolerance of fern spores, and starch/sugar partitioning in leaves of *Salvinia*.
- New reports on gametophyte development, reproductive biology and community structure, including sporophyte-independent gametophytes.
- A new review on the evolution of heterospory.
- Studies on heavy metal accumulation and bioremediation using a variety of genera, such as *Athyrium*, *Azolla*, *Cyrtomium*, *Equisetum*, *Pteris*, and *Salvinia*.
- Many new records of fern and lycophyte macro- and micro-fossils, including palynological records that add to our knowledge of paleofloras and paleoenvironments.
- New studies on the anti-cancer and/or immunological properties of fern- and lycophyte-derived compounds.

We hope that this edition of the ARPR will help you quickly find references within your own field of research and/or personal interest, and that continued publication of ARPR will enhance access to information published about ferns and lycophytes and stimulate further collaboration among pteridologists worldwide.

We want to thank Klaus Mehltreter who did a superb job over the past several years of compiling the literature citations and preparing the index for the ARPR. This is an enormous task and Klaus’s professionalism and attention to detail made our job easier in this transition year. Thankfully, Jenna Canfield stepped in for Klaus and played a pivotal role in the preparation of this volume of the ARPR.

If you are not on our mailing list but would like to receive information about how to be included in future issues, or if you would like to obtain back issues of the ARPR please contact Elisabeth A. Hooper, IAP Treasurer, Biology Department, Truman State University, 100 E Normal Street, Kirksville MO 63501-4221 USA, (iapferns@gmail.com). On-line access to the literature from back issues is available on the website of the American Fern Society (www.amerfernsoc.org).

Elisabeth Hooper,
Treasurer, IAP

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| Aguraiuja, Ruth | Population biology and restoration ecology of endangered fern species |
| Almeida, Thaís | Systematics and evolutionary biogeography of ferns and lycophytes, with emphasis in Thelypteridaceae and neotropical Polypodiaceae |
| Amoroso, Victor | Botany; Economic ferns; Histochemical studies (medicinal ferns); Philippine <i>Cycas</i> ; Morphology and taxonomy |
| Ando, Sayuri | Fern sporophyte development |
| Antony, Raju | Systematic studies of <i>Selaginella</i> ; Ferns and conservation of ferns |
| Archer, Ralph | Fern horticulture |
| Arens, Nan | Ecology of tree fern |
| Bandyopadhyay, Monanjali | Phyto-geography; Ecology; Fern lore; Ethnobotany |
| Baksh-Comeau, Yasmin | Vascular flora of Trinidad and Tobago |
| Barcelona, Julie | Philippine ferns/floristics; Ecology and conservation; <i>Odontosoria</i> systematics; Philippine <i>Rafflesia</i> |
| Bennert, H. | Ferns and lycopods |
| Bera, Subir | Animal interaction with pteridophytes and its co-evolutionary significance |
| Bhakuni, Kamlesh | Biodiversity, taxonomy and morphology of Central Himalayan ferns |
| Bercu, Rodica | Histo-anatomy of ferns |
| Boudrie, Michel | Pteridophytes of France and of the Guianas (systematics, taxonomy, ecology, distribution) |
| Breckle, Siegmur | Ecosystems of the Earth; Ecology of halophytes; Tropical ecology; Desert ecology |
| Cao, Jian | Sexual reproduction and development of fern gametophytes |
| Caponetti, James | Propagation of ferns by tissue culture |
| Chakraborti, Kalyan | Phyto-geography; Ecology; Fern lore; Ethnobotany |
| Chen, Chun-Ming | Tropical plant conservation |
| Chiou, Wen-Liang | Gametophyte morphology and development; Reproductive biology; Antheridiogen; Phenology of sporophytes; Fern systematics |
| Christenhusz, Maarten | Fern floras; Island Biogeography; Botanical Journal of the Linnean Society (Adjunct Chief Editor); Phytotaxa (Founder) |
| de Boer, Marten | Pteridophytes of Bolivia and East Africa; Herbarium specimen collection |

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|-----------------------------|--|
| Dong, Shi-Yong | <i>Tectaria</i> ; <i>Asplenium nidus</i> group; Taxonomy of Asian tropical ferns; Pteridophyte flora of Southern China |
| Dunkel, Franz-Georg | Rare ferns; Ecology and population biology |
| Ebihara, Atsushi | Speciation; Gametophytes; Hymenophyllaceae |
| Farrar, Donald | Fern reproduction; <i>Botrychium</i> systematics |
| Flinn, Kathryn | Ecology |
| Frank, Harald | Tropical ferns in general; <i>Platycterium</i> ; Ant ferns; <i>Huperzia</i> |
| Fraser-Jenkins, Christopher | Taxonomy; Floristics; Himalayan and all Asian ferns; <i>Asplenium</i> , <i>Athyrium</i> , <i>Cheilanthes</i> , <i>Diplazium</i> , <i>Dryopteris</i> , <i>Polystichum</i> , <i>Pteris</i> ; Nepal; Sri Lanka; Assam; Flora of Pakistan; Bangladesh; China; Myanmar; Tibet; Bhutan |
| Fry, Stephen | Cell wall polysaccharides and enzymes; <i>Equisetum</i> tissue culture (callus) |
| Gibby, Mary | Evolution and speciation in ferns; Fern conservation |
| Gilman, Arthur | Lycopodiaceae; Ophioglossaceae; Systematics of temperate ferns and allies |
| Goswami, Hit Kishore | Population cytogenetics of <i>Isoetes</i> and <i>Ophioglossum</i> ; Pteridophytes as medicinal plants |
| Greer, Gary | Phenotypic plasticity; Polyploidy; Reproductive Ecology; Community assembly; Antheridiogen; Allelopathy |
| Gureyeva, Irina | Taxonomy; Morphology; Biology of ferns of Siberia and Russia, especially taxonomy of <i>Pteridium</i> and morphology of the fern spores |
| Haufler, Christopher | Patterns and processes of fern evolution; Application of chromosomal, isozymic and DNA data bases in characterizing fern species; Understanding speciation mechanisms and phylogenetic relationships; The significance of polyploidy in pteridophyte evolution |
| Hemp, Andreas | Vegetation ecology |
| Hooper, Elisabeth | Fern systematics; <i>Aleuritopteris</i> |
| Horn, Karsten | Biosystematics, ecology, population biology and distribution of <i>Diphasiastrum</i> and <i>Botrychium</i> species in Europe; Bibliography of Macaronesian pteridophytes; Conservation strategies for endangered German pteridophytes; Monograph of the genus <i>Diphasiastrum</i> |
| Hovenkamp, Peter | Polypodiaceae; Nephrolepidaceae; Oleandraceae; Woodsiaceae; Saccolomataceae; Ferns of Sulawesi; Flora Malesiana; Flora of China |
| Imperato, Filippo | Chemistry of flavonoids and other phenolics of ferns |
| Iwatsuki, Kunio | Flora of East and Southeast Asia; Hymenophyllaceae; Conservation |

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|---------------------------------------|---|
| Jones, Mirkka | Determinants of plant community composition and diversity; Ecology of neotropical ferns |
| Kato, Masahiro | Tropical fern flora; Morphological evolution of vascular plants; Speciation and adaptation of rheophytes; Evolution of apogamous ferns |
| Kessler, Michael | Biodiversity and biogeography of Bolivian montane forests, including pteridophytes; Flora of Bolivian pteridophytes |
| Khullar, S. | Fern floristics; Taxonomy; Cytology and morphology |
| van Konijnenburg-van Cittert, Johanna | Evolution of fossil fern families, especially Dipteridaceae |
| Krippel, Yves | Distribution of pteridophytes in Luxembourg |
| Kurita, Siro | Speciation; Karyotype evolution; Systematics |
| Lal, Brij | Inventory, conservation, and documentation of pteridophyte- associated traditional knowledge of Indian Himalayan region in particular |
| Landi, Marco | Population ecology |
| Lehnert, Marcus | Taxonomy, phylogeny, ecology and biogeography of pteridophytes; Special expertise in tree ferns |
| Leitch, Illia | Evolution of genome size and karyotype diversity in plants |
| León, Blanca | Taxonomy of neotropical Polypodiaceae, Andes and Peruvian ferns |
| Lin, Bai-Ling | Development; Hormone signaling; Genomics |
| Lindsay, Stuart | Pteridophytes of Thailand, Laos and Cambodia; Vittariaceae of Southeast Asia; Gametophyte biology/ecology; Multi-access keys |
| Lorence, David | Pteridophytes of Polynesia, Micronesia, Mascarenes |
| Lynch, Kay | Propagation and conservation of Hawaiian native ferns |
| Madhusoodanan, P. | Pteridophytes and bryophytes of South India; <i>Azolla</i> species and Cyanobacteria as biofertilizers |
| Matos, Fernando | Taxonomy, biogeography, phylogeny and evolution of <i>Elaphoglossum</i> |
| Matsumoto, Sadamu | Cytotaxonomic study of ferns, especially <i>Cyrtomium</i> , <i>Asplenium</i> , and <i>Pteris</i> ; Pteridophyte flora of Southern Pacific Islands, Bhutan, Taiwan |
| McGrath, J. | Plant breeding; Molecular cytogenetics; Gene duplication |
| Mehlreter, Klaus | Fern ecology; Phenology; Herbivory; Interactions with insects; Invasive species |
| Mendoza Ruiz, Aniceto | Pteridophytes of Mexico; Taxonomy, floristics, cultivation and propagation of ferns |

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| Metzgar, Jordan | <i>Cryptogramma</i> ; Phylogenetics; Polyploidy; <i>Azolla</i> ; Osmundaceae |
| Mickel, John | Pteridoflora of Mexico; Monographic studies of <i>Anemia</i> and <i>Elaphoglossum</i> |
| Mikolas, Vlastimil | <i>Polypodium</i> ; <i>Asplenium trichomanes</i> agg.; <i>Dryopteris</i> ; <i>Equisetum</i> and ferns of Oceania |
| Montgomery, James | <i>Dryopteris</i> in North America and Mexico; Ferns of Pennsylvania and New Jersey; Ecology of <i>Botrychium</i> |
| Moran, Robbin | Taxonomy, biogeography, phylogeny and evolution of ferns and lycophytes |
| Mynssen, Claudine | <i>Diplazium</i> ; Brazilian flora |
| Nakato, Narumi | Chromosomes; Polyploidy; Hybridization; Speciation |
| Niño, Maite | Selaginellaceae; Lycopodiaceae; Polypodiaceae (including Grammitidaceae); Fern culture; Ecology |
| Øllgaard, Benjamin | Systematics and biology of the Lycopodiaceae with special reference to neotropical Lycopodiaceae; Pteridophytes of the northern Andes, especially Ecuador; Biology; Taxonomy and diversity; Quantitative inventories of pteridophytes in sample plots in Ecuador |
| Olsen, Sue | Testing ferns for hardiness and ornamental value and introducing ferns to the public |
| Pacheco, Leticia | Systematics of <i>Diplazium</i> |
| Page, Christopher | Biology and ecology of Pteridophyta; Biogeography; Distribution; Insular floras; Paleobotany; <i>Equisetum</i> ; Patterns, principles, processes and dynamics in pteridophyte ecosystems and their evolution |
| Pajaron, Santiago | Reproductive biology; Population genetics; Systematics and evolution |
| Palmer, Daniel | Hawaiian ferns |
| Parris, Barbara | Monographic studies of Grammitidaceae; Systematics, ecology and phytogeography of Old World pteridophytes particularly in tropical and south temperate regions |
| Paul, Alison | Pteridophyte curation; Macaronesian and European pteridophytes |
| Peck, James | Pteridophyte flora of Arkansas |
| Pereira, Ana | Biological activity of extracts; Plant-cyanobacteria symbioses; Phylogeny; Cyanotoxins; Proteomic, phytoremediation, ecotoxicology of plants by cyanotoxins |
| Piatek, Krzysztof | Fern biogeography |

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| Prado, Jefferson | Phylogeny, nomenclature, taxonomy, and geographical distributions of Pteridaceae; Pteridoflora in Brazil |
| Pryer, Kathleen | Phylogenetics of ferns and basal tracheophytes using morphological and molecular data; Systematics of basal fern families, especially Marsileaceae, Hymenophyllaceae, tree ferns, pteroid ferns, ontogeny and phylogeny; Morphometrics |
| Punetha, N. | Morphology, taxonomy and biodiversity of Central Himalayan ferns and lycophytes |
| Raj, Anshita | Phytoremediation; Arsenic; <i>Pteris vittata</i> gametophytes |
| Rajesh, K. | Ecology, taxonomy and conservation of bryophytes and pteridophytes of Western Ghats |
| Ranil, R.G.H. | Tree ferns |
| Ranker, Tom | Systematics, ecology and evolution of tropical ferns |
| Renzaglia, Karen | Morphology; Development; Reproduction; Ultrastructure |
| Rothwell, Gar | Phylogeny of land plants |
| Runk, Kai | Comparative biology and ecology of Estonian Dryopteris; Cultivation of hardy ferns in Estonia, especially <i>Polystichum</i> and <i>Phyllitis scolopendrium</i> and their cultivars; Hardy East Asian fern species |
| Salgado, Arthur | Taxonomy of Southeast Asian ferns; the genus <i>Asplenium</i> in the Philippines |
| Schoelch, Annette | Construction morphology; Development of the sporophyll, sporangia, and sori in ferns; Evolution and phylogeny of ferns |
| Schuettpelz, Eric | Evolution, diversification and systematics of pteridophytes, especially the leptosporangiate fern family Pteridaceae |
| Schwartz, David | Cheilanthoid ferns |
| Sen, Kakali | Evolutionary biology of ferns and lycophytes |
| Shao, Wen | Fern embryology; Pteridophyte taxonomy; Polypodiaceae; <i>Phymatopteris</i> |
| Sharma, B. | Morphology, anatomy, phytochemistry and experimental studies on pteridophytes; Paleobotany of Mesozoic and tertiary plants |
| Sharpe, Joanne | Tropical and temperate fern life histories; Long-term studies of demography of tropical pteridophytes; Ecology of rheophytes and New England ferns |
| Skog, Judith | Fern evolution and phylogeny, especially basal ferns - Osmundaceae, Schizaeaceae, Matonianaceae; Relationships with fossil ferns |

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| Smith, Alan | Phylogeny of pteridophytes; Phylogeny of Polypodiaceae/Grammitidaceae; Floristics of Mexican, Venezuelan and Bolivian ferns and allies; Phytogeography of ferns |
| Sreenivas, V. | Molecular phylogeny; Taxonomy; <i>Pteris</i> |
| Vasco, Alejandra | Neotropical pteridophyte taxonomy; <i>Elaphoglossum</i> |
| Vasheka, Olena | Fern introduction, cultivation of temperate-zone ferns in Ukraine; Pteridophyte conservation |
| Wagner, David | Ferns of the Pacific Northwest; <i>Polystichum</i> ; <i>Botrychium</i> ; Photomicrography |
| Wagner, Florence | Cytology and hybridization in pteridophytes; Monograph of <i>Botrychium</i> ; Hawaiian pteridophyte flora; Cytology and paraphyses of Hawaiian pteridophytes; Bibliography of Hawaiian pteridophytes |
| Watano, Yasuyuki | Speciation; Apogamy; Intragametophytic selfing |
| Watkins, Jr., James | Fern ecology; Ecophysiology; Reproductive/gametophyte biology |
| White, Richard | Vascular plant anatomy and morphology; Systematics and anatomy of the tree ferns (Dicksoniaceae and Cyatheaceae) and allies |
| Whittier, Dean | Morphology and development of fern gametophytes; Development of gametophytes of the Ophioglossaceae, Psilotaceae and Lycopodiaceae |
| Wilson, Kenneth | Hawaiian alien ferns; Pteridophyte sporangial morphology |
| Windham, Michael | Cytology and phylogeny of ferns; Chelanthoid ferns |
| Wolf, Paul | Molecular systematics; Population genetics; Fern phylogeny |
| Yatskievych, George | Systematics of cheilanthoid ferns; Floristics of US (especially Missouri) and Mexico; Conservation |
| Zhang, Xian-Chun | Ferns of the Himalayan region and Southeast Asia |
| Zlotnik, Aurora | Fern anatomy; Plant stomata |

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