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Cover photo: *Didymoglossum godmanii*, epiphyte on trunks of the palm *Welfia regia*, Costa Rica (Klaus Mehlreter)

INTRODUCTION

This volume of the *Annual Review of Pteridological Research* (ARPR) provides a comprehensive list of 776 literature citations on ferns and lycophytes published during 2016, an index to authors and keywords, and a description of research interests and contact information of pteridologists who answered our annual questionnaire.

In 2016, research in ferns and lycophytes yielded important worldwide contributions, such as the PPG I (2016) community-derived classification system for ferns and lycophytes and several family treatments for the Manual of the Vascular Plants of the Northeastern United States (Moran 2016 b & c, Taylor et al. 2016) and the Flora of the cangas of the Serra dos Carajás, Pará, Brazil (Moura & Salino 2016 a & b, Moura et al. 2016 a & b, Salino & Arruda 2016 a-d, Viana et al. 2016). In addition, 45 new species were described from Africa-Madagascar (11 spp.), China (9), Brazil (6), Peru (4), New Guinea (3), Guianas (3), Thailand (2), and Argentina, Ecuador, Mexico, Myanmar, New Zealand, Taiwan, and Vietnam (each 1 sp.). New insights on molecular phylogeny came from Testo & Sundue's (2016) analysis of 4000 leptosporangiate ferns. Physiological research focused on stomatal dynamics and hydraulic architecture, especially under drought stress (Baer et al. 2016, Brodersen et al. 2016, Holmlund et al. 2016, Klepsch et al. 2016, Martins et al. 2016), but also on the ecophysiology of leaf dimorphism (Watkins et al. 2016). Haufler et al. (2016) reviewed the homosporous vascular plant life cycle, whereas Sessa et al. (2016) looked at the functional significance of extreme inbreeding and Imai et al. (2016) at the relationship between mating systems and genetic diversity.

Other exciting examples of fern and lycophyte research include the sex-dependent nutrient content of gametophytes (Goodnoe & Hill 2016) and the oil-absorbing properties of the highly hydrophobic leaves of four *Salvinia* species for possible use in clean-up of oil spills (Zeiger et al. 2016). Finally, Shukla et al. (2016) transferred a fern gene into cotton to provide an insecticidal effect against whiteflies. The former are just a few examples of the enormous diversity of research published on ferns and lycophytes in 2016. We hope that this edition of ARPR will help you quickly find references within your own field of research or personal interest.

Joanne M. Sharpe supported this year's issue by contributing to database searches. Elisabeth Hooper took charge of the annual questionnaire, directory and research interests of respondents. Klaus Mehltreter compiled and formatted the literature citations and index. We hope that the continuous publication of ARPR will enhance access to information published about ferns and lycophytes worldwide and stimulate further collaboration among pteridologists. For any feedback on this year's issue, please contact Klaus Mehltreter, Instituto de Ecología, A. C., Red de Ecología Funcional, carretera antigua a Coatepec No. 351, El Haya, 91070 Xalapa, Ver., Mexico (klaus.mehltreter@inecol.mx).

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, Treasurer, International Association of Pteridologists, 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 since 1994 is available on the website of the American Fern Society (www.amerfernsoc.org).

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Elisabeth Hooper, Kirksville, Missouri

1. Abdel-Azeem, A. M., Zaki, S. M., Khalil, W. F., Makhlouf, N. A. & Farghaly, L. M. 2016. Anti-rheumatoid activity of secondary metabolites produced by endophytic *Chaetomium globosum*. *Frontiers in Microbiology* 7(SEP): e1477. [*Adiantum capillus-veneris*]
2. Abu Hamad, A. M. B., Amireh, B., El Atfy, H., Jasper, A. & Uhl, D. 2016. Fire in a *Weichselia*-dominated coastal ecosystem from the Lower Cretaceous (Barremian) of the Kurnub Group in NW Jordan. *Cretaceous Research* 66: 82-93.
3. Adhikari, P., Park, S. M., Kim, T. W., Lee, J. W., Kim, G. R., Han, S. H. & Oh, H. S. 2016. Seasonal and altitudinal variation in roe deer (*Capreolus pygargus tianschanicus*) diet on Jeju Island, South Korea. *Journal of Asia-Pacific Biodiversity* 9(4): 422-428. [*Athyrium koryoense*, *Lycopodium chinense*]
4. Akinbile, C. O., Ogunrinde, T. A., Che Bt Man, H. & Aziz, H. A. 2016. Phytoremediation of domestic wastewaters in free water surface constructed wetlands using *Azolla pinnata*. *International Journal of Phytoremediation* 18(1): 54-61.
5. Alekseeva, T., Kabanov, P., Alekseev, A., Kalinin, P. & Alekseeva, V. 2016. Characteristics of early Earth's critical zone based on middle-late Devonian paleosol properties (Voronezh High, Russia). *Clays and Clay Minerals* 64(5): 677-694.
6. Alfredsson, H., Clymans, W., Stadmark, J., Conley, D. & Rousk, J. 2016. Bacterial and fungal colonization and decomposition of submerged plant litter: consequences for biogenic silica dissolution. *FEMS Microbiology Ecology* 92(3): e011. [*Equisetum arvense*]
7. Allen, D. E. 2016. Hunting plants: the story of those who discovered the flowering plants and ferns of North Lancashire. *Archives of Natural History* 43(2): 369-370.
8. Alm, T. 2016. Fern rhizomes as fodder in Norway. *Journal of Ethnobiology and Ethnomedicine* 12(1): e37.
9. Almeida, T. E. & Salino, A. 2016. State of the art and perspectives on neotropical fern and lycophyte systematics. *Journal of Systematics and Evolution* 54(6): 679-690.
10. Almeida, T. E., Hennequin, S., Schneider, H., Smith, A. R., Batista, J. A. N., Ramalho, A. J., Proite, K. & Salino, A. 2016. Towards a phylogenetic generic classification of Thelypteridaceae: additional sampling suggests alterations of neotropical taxa and further study of paleotropical genera. *Molecular Phylogenetics and Evolution* 94: 688-700.
11. Ambrose, B. A. & Vasco, A. 2016. Bringing the multicellular fern meristem into focus. *New Phytologist* 210(3): 790-793.
12. Amoroso, V. B., Coritico, F. P. & Fritsch, P. W. 2016. Species richness and conservation status of ferns and lycophytes in Mt. Hamiguitan Range Wildlife Sanctuary, Davao Oriental, Philippines. *Philippine Journal of Science* 145(2): 127-137.
13. Andersen, F. & Paulsen, E. 2016. Allergic contact dermatitis caused by the Boston fern *Nephrolepis exaltata "Bostoniensis"*. *Contact Dermatitis* 75(4): 255-256.
14. Andrade, J. M. D., Passos, C. D., Rubio, M. A. K., Mendonca, J. N., Lopes, N. P. & Henriques, A. T. 2016. Combining *in vitro* and *in silico* approaches to evaluate the multifunctional profile of rosmarinic acid from *Blechnum brasiliense* on targets related to neurodegeneration. *Chemico-Biological Interactions* 254: 135-145.
15. Antony, R., Fraser-Jenkins, C. R. & Mohanan, N. 2016. A note on *Taphrina* infection of ferns and re-interpretation of aposporous gametophytes reported in *Pteris* and *Arachniodes* from South India. *Indian Fern Journal* 33(1-2): 81-90.

16. Araki, T., Saga, Y., Marugami, M., Otaka, J., Araya, H., Saito, K., Yamazaki, M., Suzuki, H. & Kushiro, T. 2016. Onocerin biosynthesis requires two highly dedicated triterpene cyclases in a fern *Lycopodium clavatum*. Chembiochem 17(4): 288-290.
17. Arana, M. D., Larsen, C. & Ponce, M. M. 2016. Revision and panbiogeographic analysis of Hymenophyllaceae from meridional Yungas from Argentina (Tucumano-Boliviana Rainforest). Rodriguesia 67(1): 55-75.
18. Arana, M. D., Prado, J. & Ponce, M. 2016. Revision of the genus *Megalastrum* (Dryopteridaceae) for Argentina. Darwiniana 4(2): 217-233. [Spanish]
19. Arana, M. D., Prado, J. & Ponce, M. M. 2016. *Megalastrum* Holttum. In: Anton, A. M. & Zuloaga, F.O. (Org.). Flora Argentina: Licofitas, Helechos, Gymnospermae. 1 ed. Córdoba: Instituto Multidisciplinario de Biología Vegetal (CONICET-UNC) v. 2: 149-154. [Spanish]
20. Arana, M., Ponce, M. & Christenhusz, M. J. M. 2016. Proposal to conserve the name *Marattia kaulfussii* (*Eupodium kaulfussii*) against *M. raddiana* (Marattiaceae). Taxon 65: 1423.
21. Araujo, R. N., Nogueira, A. C. R., Bandeira, J. & Angelica, R. S. 2016. Shallow lacustrine system of the Permian Pedra de Fogo Formation, Western Gondwana, Parnaiba Basin, Brazil. Journal of South American Earth Sciences 67: 57-70.
22. Araya, T. Z., Padilla, W. P., Archidona-Yuste, A., Cantalapiedra-Navarrete, C., Liebanas, G., Palomares-Rius, J. E. & Castillo, P. 2016. Root-lesion nematodes of the genus *Pratylenchus* (Nematoda: Pratylenchidae) from Costa Rica with molecular identification of *P. gutierrezi* and *P. panamaensis* topotypes. European Journal of Plant Pathology 145(4): 973-998.
23. Artigas Vilches, R. & Gallego Roig, J. J. 2016. About a new botanical exploration inside the longest navigable underground river in Europe. Flora Montiberica 64: 26-28. [*Nephrolepis exaltata*]
24. Asis, F. C., Almeida, T. E., Russell, S. J., Schneider, H. & Salino, A. 2016. Molecular phylogeny and recircumscription of the fern genus *Pecluma* (Polypodiaceae-Polypodiopsida). Phytotaxa 247(4): 235-246.
25. Askerov, A. M. & Akcay, Ü. 2016. About the status of certain species of *Dryopteris* Adans. s. str. in the flora of Azerbaijan. Turczaninowia 19(1): 79-86.
26. Asuquo, E. D. & Martin, A. D. 2016. Sorption of cadmium (II) ion from aqueous solution onto sweet potato (*Ipomoea batatas* L.) peel adsorbent: Characterisation, kinetic and isotherm studies. Journal of Environmental Chemical Engineering 4(4): 4207-4228.
27. Atta-Peters, D. & Achaegakwo, C. A. 2016. Palynofacies and palaeoenvironmental significance of the Albian - Cenomanian succession of the Epunsa-1 well, onshore Tano Basin, western Ghana. Journal of African Earth Sciences 114: 1-12.
28. Aximoff, I., Nunes-Freitas, A. F. & Braga, J. M. A. 2016. Post-fire natural regeneration of high altitude grasslands in the Itatiaia National Park, Southeast of Brazil. Oecologia Australis 20(2): 62-80.
29. Aya-Ay, A. M. 2016. Ethnobotany of ferns and fern allies in Mount Macabol, Marilog District, Davao City, Philippines. International Journal of Applied Business and Economic Research 14(2): 1127-1137.
30. Baer, A., Wheeler, J. K. & Pittermann, J. 2016. Not dead yet: the seasonal water relations of two perennial ferns during California's exceptional drought. New Phytologist 210(1): 122-132.

31. Bai, L. N., Qiao, M., Zheng, R., Deng, C. Y., Mei, S. Q. & Chen, W. P. 2016. Phylogenomic analysis of transferrin family from animals and plants. Comparative Biochemistry and Physiology D-Genomics & Proteomics 17: 1-8.
32. Balarak, D., Azarpira, H. & Mostafapour, F. K. 2016. Study of the adsorption mechanisms of cephalixin on to *Azolla filiculoides*. Der Pharma Chemica 8(10): 114-121.
33. Balarak, D., Mahdavi, Y., Bazrafshan, E. & Mahvi, A. H. 2016. Kinetic, isotherms and thermodynamic modeling for adsorption of acid blue 92 (ab92) from aqueous solution by modified *Azolla filiculoides*. Fresenius Environmental Bulletin 25(5): 1321-1330.
34. Baldwin, J. W. & Londono, G. A. 2016. First nesting account and breeding biology of "Gould's Inca" (*Coeligena Torquata Omissa*) in Manu National Park, Peru. Wilson Journal of Ornithology 128(3): 606-618.
35. Barbacka, M., Pacyna, G., Pienkowski, G. & Ziaja, J. 2016. New data about *Mattonia braunii* (Goppert) Harris from the Early Jurassic of Poland and its ecology. Geological Quarterly 60(4): 857-868.
36. Barbe, M., Chavel, E. E., Fenton, N. J., Imbeau, L., Mazerolle, M. J., Drapeau, P. & Bergeron, Y. 2016. Dispersal of bryophytes and ferns is facilitated by small mammals in the boreal forest. Ecoscience 23(3-4): 67-76.
37. Barbolini, N., Smith, R. M. H., Tabor, N. J., Sidor, C. A. & Angielczyk, K. D. 2016. Resolving the age of Madumabisa fossil vertebrates: Palynological evidence from the mid-Zambezi Basin of Zambia. Palaeogeography Palaeoclimatology Palaeoecology 457: 117-128.
38. Barker, M. S., Husband, B. C. & Pires, J. C. 2016. Spreading Wings and flying high: The evolutionary importance of polyploidy after a century of study. American Journal of Botany 103(7): 1139-1145.
39. Barral, A., Gomez, B., Zorrilla, J. M., Serrano, J. M., Yans, J., Cazebat, M., Daviero-Gomez, V., Ewin, T. A. M. & Lecuyer, C. 2016. Local-scale analysis of plant community from the early Cretaceous riparian ecosystem of Hautrage, Belgium. Palaeogeography Palaeoclimatology Palaeoecology 443: 107-122.
40. Barthlott, W., Mail, M. & Neinhuis, C. 2016. Superhydrophobic hierarchically structured surfaces in biology: evolution, structural principles and biomimetic applications. Philosophical Transactions of the Royal Society a-Mathematical Physical and Engineering Sciences 374(2073): e20160191.
41. Bashforth, A. R., Dimichele, W. A., Eble, C. F. & Nelson, W. J. 2016. Dryland vegetation from the middle Pennsylvanian of Indiana (Illinois Basin): the dryland biome in glacioeustatic, paleobiogeographic, and paleoecologic context. Journal of Paleontology 90(5): 785-814.
42. Bashforth, A. R., Dimichele, W. A., Eble, C. F. & Nelson, W. J. 2016. A Middle Pennsylvanian macrofloral assemblage from wetland deposits in Indiana (Illinois Basin): a taxonomic contribution with biostratigraphic, paleobiogeographic, and paleoecologic implications. Journal of Paleontology 90(4): 589-631.
43. Baskaran, X., Vigila, A. V. G., Parimelazhagan, T., Muralidhara-Rao, D. & Zhang, S. Z. 2016. Biosynthesis, characterization, and evaluation of bioactivities of leaf extract-mediated biocompatible silver nanoparticles from an early tracheophyte, *Pteris tripartita* Sw. International Journal of Nanomedicine 11: 5789-5806.

44. Bateman, R. M., Stevens, L. G. & Hilton, J. 2016. Stratigraphy, palaeoenvironments and palaeoecology of the Loch Humphrey Burn lagerstatte and other Mississippian palaeobotanical localities of the Kilpatrick Hills, southwest Scotland. *Peerj* 4: e1700.
45. Batke, S. P., Cascante-Marin, A. & Kelly, D. L. 2016. Epiphytes in Honduras: a geographical analysis of the vascular epiphyte flora and its floristic affinities to other Central American countries. *Tropical Ecology* 57(4): 663-675.
46. Batten, D. J., Li, J. & Peng, J. 2016. Megaspores attributable to *Ghoshispora* in Late Cretaceous deposits of the Songliao Basin, north-east China: Taxonomic clarification and distribution. *Review of Palaeobotany and Palynology* 232: 40-60.
47. Bauer, D. S., Prado, J., Trovo, M., Coan, A. I., Stützel, T. & Schulz, C. 2016. Megaspore investigations of *Selaginella* species from São Paulo, Brazil. *American Fern Journal* 106(2): 55-86.
48. Baykal, H. & Atamov, V. 2016. Floristic diversity in Bashemsin valley of Kackar Mountains National Park of Rize, Turkey. *Pakistan Journal of Botany* 48(5): 1871-1876.
49. Beauvais, M. P., Pellerin, S. & Lavoie, C. 2016. Beta diversity declines while native plant species richness triples over 35 years in a suburban protected area. *Biological Conservation* 195: 73-81.
50. Bedini, G., Pierini, B., Roma-Marzio, F., Caparelli, K. F., Bonari, G., Dolci, D., Gestri, G., D'antraccoli, M. & Peruzzi, L. 2016. Wikiplantbase #Toscana, breaking the dormancy of floristic data. *Plant Biosystems* 150(3): 601-610.
51. Bendik, N. F., McEntire, K. D. & Sissel, B. N. 2016. Movement, demographics, and occupancy dynamics of a federally-threatened salamander: evaluating the adequacy of critical habitat. *Peerj* 4: e1817. [*Adiantum*]
52. Berman, B., Ellis, C. & Elmets, C. 2016. *Polypodium leucotomos* - An overview of basic investigative findings. *Journal of Drugs in Dermatology* 15(2): 224-228.
53. Bhadra, B. N., Ahmed, I. & Jhung, S. H. 2016. Remarkable adsorbent for phenol removal from fuel: functionalized metal-organic framework. *Fuel* 174: 43-48.
54. Blair, D. P., McBurney, L. M., Blanchard, W., Banks, S. C. & Lindenmayer, D. B. 2016. Disturbance gradient shows logging affects plant functional groups more than fire. *Ecological Applications* 26(7): 2280-2301.
55. Blume, F., Liu, Y. C., Thiel, D. & Deska, J. 2016. Chemoenzymatic total synthesis of (+)- & (-)-cis-Osmundalactone. *Journal of Molecular Catalysis B-Enzymatic* 134: 280-284.
56. Boardman, D. R., Iannuzzi, R. & Dutra, T. L. 2016. A new genus of Sphenopsida from the Lower Permian of the Paraná Basin, Southern Brazil. *Review of Palaeobotany and Palynology* 233: 44-55.
57. Boch, S., Berlinger, M., Prati, D. & Fischer, M. 2016. Is fern endozoochory widespread among fern-eating herbivores? *Plant Ecology* 217(1): 13-20.
58. Boer, H. J., Price, C. A., Wagner-Cremer, F., Dekker, S. C., Franks, P. J. & Veneklaas, E. J. 2016. Optimal allocation of leaf epidermal area for gas exchange. *New Phytologist* 210(4): 1219-1228.
59. Bohnert, T., Wenzel, A., Altenhövel, C., Beeretz, L., Tjitrosoedirdjo, S. S., Meijide, A., Rembold, K. & Kreft, H. 2016. Effects of land-use change on vascular epiphyte diversity in Sumatra (Indonesia). *Biological Conservation* 202: 20-29.
60. Bona, M. & Gibby, M. 2016. The fern family Pteridaceae in Turkey. *The Fern Gazette* 20(3): 119-132.

61. Bonavita, S. & Regina, T. M. R. 2016. The evolutionary conservation of rps3 introns and rps19-rps3-rpl16 gene cluster in *Adiantum capillus-veneris* mitochondria. Current Genetics 62(1): 173-184.
62. Boudrie, M. & Chauvignat, A. M. 2016. Compte-rendu de la sortie botanique du samedi 7 juin 2014 dans la vallée du Vianon (Corrèze), à la recherche de *Cystopteris dickieana*. Bulletin de la Société Botanique du Centre-Ouest 46: 71-73. [French]
63. Boudrie, M. & Cremers, G. 2016. Nomenclatural note on the pteridophyte flora of the Guianas. American Fern Journal 106(3): 171-174.
64. Boudrie, M. 2016. – Compte-rendu de la mini-session Ptéridophytes dans la vallée du Lot, aux environs de Maurs (Cantal), du 5 au 7 septembre 2014. Journal de Botanique de la Société Botanique de France 74: 61-69. [French]
65. Boudrie, M., Mady, M. & Chabrol, L. 2016. État des lieux des espèces du genre *Isoëtes* en Limousin (Isoétaceae, Lycophyta). Bulletin de la Société Botanique du Centre-Ouest 46: 62-70. [French]
66. Bourgeois, B., Vanasse, A. & Poulin, M. 2016. Effects of competition, shade and soil conditions on the recolonization of three forest herbs in tree-planted riparian zones. Applied Vegetation Science 19(4): 679-688.
67. Braganca, C. A. D., Damm, U., Baroncelli, R., Massola, N. S. & Crous, P. W. 2016. Species of the *Colletotrichum acutatum* complex associated with anthracnose diseases of fruit in Brazil. Fungal Biology 120(4): 547-561.
68. Brandt, A. J., Tanentzap, A. J., Leopold, D. R., Heenan, P. B., Fukami, T. & Lee, W. G. 2016. Precipitation alters the strength of evolutionary priority effects in forest community assembly of pteridophytes and angiosperms. Journal of Ecology 104(6): 1673-1681.
69. Bravo, S., Parra, M. J., Castillo, R., Sepulveda, F., Turner, A., Bertin, A., Osorio, G., Tereszczuk, J., Bruna, C. & Hasbun, R. 2016. Reversible *in vivo* cellular changes occur during desiccation and recovery: desiccation tolerance of the resurrection filmy fern *Hymenophyllum dentatum* Cav. Gayana Botanica 73(2): 402-413.
70. Bremer, P. & Egelmeers, J. 2016. De Lansvaren in Nederland. Varenvaria 29(1): 8-13.
71. Bremer, P. 2016. Het *Luzulo luzuloides* – *Thelypteridetum limbospermae* Wittig 2000 in Nederland? Stratiotes 49: 11-22.
72. Britton, M. R. & Watkins, J. E. 2016. The economy of reproduction in dimorphic ferns. Annals of Botany 118(6): 1139-1149.
73. Brock, J. M. R., Perry, G. L. W., Lee, W. G. & Burns, B. R. 2016. Tree fern ecology in New Zealand: a model for southern temperate rainforests. Forest Ecology and Management 375: 112-126.
74. Brodersen, C. R., Rico, C., Guenni, O. & Pittermann, J. 2016. Embolism spread in the primary xylem of *Polystichum munitum*: implications for water transport during seasonal drought. Plant Cell and Environment 39(2): 338-346.
75. Brodribb, T. J., Bieniaime, D. & Marmottant, P. 2016. Revealing catastrophic failure of leaf networks under stress. Proceedings of the National Academy of Sciences of the United States of America 113(17): 4865-4869.
76. Brouwer, P., van der Werf, A., Schluepmann, H., Reichart, G. J. & Nierop, K. G. J. 2016. Lipid yield and composition of *Azolla filiculoides* and the implications for biodiesel production. Bioenergy Research 9(1): 369-377.

77. Brown, W. D. 2016. Mating behavior of the endemic Hawaiian cricket *Leptogryllus elongatus* (Orthoptera: Gryllidae: Oecanthinae). *Journal of Insect Behavior* 29(4): 449-458.
78. Brownsey, P. J. & Perrie, L. R. 2016. *Asplenium decurrens* Willd., an earlier name for *A. northlandicum* (Brownsey) Ogle. *New Zealand Journal of Botany* 54(4): 515-519.
79. Brownsey, P. J. & Perrie, L. R. 2016. Taxonomic notes on the New Zealand flora: lectotypes in the fern families Dennstaedtiaceae and Lindsaeaceae. *New Zealand Journal of Botany* 54(4): 511-514.
80. Brownsey, P. J. & Perrie, L. R. 2016. Taxonomic notes on the New Zealand flora: lectotypes in the fern family Hymenophyllaceae. *New Zealand Journal of Botany* 54(1): 48-62.
81. Brownsey, P. J. & Perrie, L. R. 2016. Taxonomic notes on the New Zealand flora: lectotypes in the fern family Thelypteridaceae. *New Zealand Journal of Botany* 54(1): 87-91.
82. Brummitt, N., Aletrari, E., Syfert, M. M. & Mulligan, M. 2016. Where are threatened ferns found? Global conservation priorities for pteridophytes. *Journal of Systematics and Evolution* 54(6): 604-616.
83. Burnard, D., Shepherd, L., Perrie, L. & Munkacsi, A. 2016. Phylogenetic relationships of New Zealand Lycopodiaceae. *Plant Systematics and Evolution* 302(6): 661-667.
84. Cajamarca, F. A. S., Corazza, M. Z., Prete, M. C., Dragunski, D. C., Rocker, C., Caetano, J., Goncalves Junior, A. C. & Tarley, C. R. T. 2016. Investigation on the performance of chemically modified aquatic macrophytes *Salvinia molesta* for the micro-solid phase preconcentration of Cd (II) on-line coupled to FAAS. *Bulletin of Environmental Contamination and Toxicology* 97(6): 863-869.
85. Campbell, L. M. 2016. Collections in the Plant Research Laboratory of The New York Botanical Garden. *Brittonia* 68(3): 341-347.
86. Campos, N. V., Araujo, T. O., Arcanjo-Silva, S., Freitas-Silva, L., Azevedo, A. A. & Nunes-Nesi, A. 2016. Arsenic hyperaccumulation induces metabolic reprogramming in *Pityrogramma calomelanos* to reduce oxidative stress. *Physiologia Plantarum* 157(2): 135-146.
87. Cantamessa, S., D'agostino, G. & Berta, G. 2016. Hydathode structure and localization in *Pteris vittata* fronds and evidence for their involvement in arsenic leaching. *Plant Biosystems* 150(6): 1208-1215.
88. Cantero, J. J., Palchetti, V., Nunez, C. O. & Barboza, G. E. 2016. Halophytic flora of Argentina: A checklist and an analysis of its diversity, In: Khan, M., Boér, B., Özturk, M., Clüsener-Godt, M., Gul, B., Breckle, S. W. (ed.). *Sabkha Ecosystems*. Springer, Cham, pp. 137-204.
89. Cao, J. G., Dai, X. F., Dai, X. L. & Wang, Q. X. 2016. Observations on fertilization and a novel cytological mechanism for preventing polyspermy in the fern *Osmunda japonica*. *International Journal of Plant Sciences* 177(3): 287-293.
90. Cardenas, A. V. C., Hernandez, L. R., Juarez, Z. N., Sanchez-Arreola, E. & Bach, H. 2016. Antimicrobial, cytotoxic, and anti-inflammatory activities of *Pleopeltis polylepis*. *Journal of Ethnopharmacology* 194: 981-986.
91. Cardenas, G. G., Tuomisto, H. & Lehtonen, S. 2016. Erratum to: Newly discovered diversity in the tropical fern genus *Metaxyta* based on morphology and molecular phylogenetic analyses. *Kew Bulletin* 71(9): e49.
92. Cardenas, G. G., Tuomisto, H. & Lehtonen, S. 2016. Newly discovered diversity in the tropical fern genus *Metaxyta* based on morphology and molecular phylogenetic analyses. *Kew Bulletin* 71(3): e5.

93. Carlozzi, P. & Padovani, G. 2016. The aquatic fern *Azolla* as a natural plant-factory for ammonia removal from fish-breeding fresh wastewater. *Environmental Science and Pollution Research* 23(9): 8749-8755.
94. Carvalho, E. S., Pimenta, J. A. & Bianchini, E. 2016. Ferns influence on the woody species seedling bank in semi-deciduous forest, Southern Brazil. *Acta Scientiarum - Biological Sciences* 38(3): 347-354.
95. Cascales-Minana, B., Diez, J. B., Gerrienne, P. & Cleal, C. J. 2016. A palaeobotanical perspective on the great end-Permian biotic crisis. *Historical Biology* 28(8): 1066-1074.
96. Catterall, C. P. 2016. Roles of non-native species in large-scale regeneration of moist tropical forests on anthropogenic grassland. *Biotropica* 48(6): 809-824.
97. Chaity, F. R., Khatun, M. & Rahman, M. S. 2016. *In vitro* membrane stabilizing, thrombolytic and antioxidant potentials of *Drynaria quercifolia* L., a remedial plant of the Garo tribal people of Bangladesh. *BMC Complementary and Alternative Medicine* 16: e184.
98. Chambers, S. M. & Emery, N. C. 2016. Population differentiation and countergradient variation throughout the geographic range in the fern gametophyte *Vittaria appalachiana*. *American Journal of Botany* 103(1): 86-98.
99. Chandanshive, V. V., Rane, N. R., Gholave, A. R., Patil, S. M., Jeon, B. H. & Govindwar, S. P. 2016. Efficient decolorization and detoxification of textile industry effluent by *Salvinia molesta* in lagoon treatment. *Environmental Research* 150: 88-96.
100. Chang, Y. H., Wang, H., Liu, H. Y., Lu, P. F., Lin, C. Y. & Tu, S. H. 2016. *Metathelypteris flaccida* (Blume) Ching (Thelypteridaceae; Polypodiales), a newly recorded fern in Taiwan. *Taiwan Journal of Forest Science* 31(4): 323-330.
101. Chauvet, E., Cornut, J., Sridhar, K. R., Selosse, M. A. & Barlocher, F. 2016. Beyond the water column: aquatic hyphomycetes outside their preferred habitat. *Fungal Ecology* 19: 112-127.
102. Chear, N. J. Y., Khaw, K. Y., Murugaiyah, V. & Lai, C. S. 2016. Cholinesterase inhibitory activity and chemical constituents of *Stenochlaena palustris* fronds at two different stages of maturity. *Journal of Food and Drug Analysis* 24(2): 358-366.
103. Chen, C. W., Schuettpelz, E., Lindsay, S. & Middleton, D. J. 2016. Proposal to conserve the name *Haplopteris* against *Monogramma* (Pteridaceae). *Taxon* 65: 884-885.
104. Chen, N. H., Zhang, Y. B., Huang, X. J., Jiang, L., Jiang, S. Q., Li, G. Q., Li, Y. L. & Wang, G. C. 2016. Drychampones A-C: Three meroterpenoids from *Dryopteris championii*. *Journal of Organic Chemistry* 81(19): 9443-9448.
105. Chen, X., Schreiber, K., Appel, J., Makowka, A., Fahnrich, B., Roettger, M., Hajirezaei, M. R., Sonnichsen, F. D., Schonheit, P., Martin, W. F. & Gutekunst, K. 2016. The Entner-Doudoroff pathway is an overlooked glycolytic route in cyanobacteria and plants. *Proceedings of the National Academy of Sciences of the United States of America* 113(19): 5441-5446.
106. Chen, Z. D., Yang, T., Lin, L., Lu, L. M., Li, H. L., Sun, M., Liu, B., Chen, M., Niu, Y. T., Ye, J. F., Cao, Z. Y., Liu, H. M., Wang, X. M., Wang, W., Zhang, J. B., Meng, Z., Cao, W., Li, J. H., Wu, S. D., Zhao, H. L., Liu, Z. J., Du, Z. Y., Wang, Q. F., Guo, J., Tan, X. X., Su, J. X., Zhang, L. J., Yang, L. L., Liao, Y. Y., Li, M. H., Zhang, G. Q., Chung, S. W., Zhang, J., Xiang, K. L., Li, R. Q., Soltis, D. E., Soltis, P. S., Zhou, S. L., Ran, J. H., Wang, X. Q., Jin, X. H., Chen, Y. S., Gao, T. G., Li, J. H., Zhang, S. Z. & Lu, A. M. 2016. Tree of life for the genera of Chinese vascular plants. *Journal of Systematics and Evolution* 54(4): 277-306.

107. Chen, Z., Chen, Z. & Bai, L. 2016. Rare earth element migration in gullies with different *Dicranopteris dichotoma* covers in the Huangnikeng gully group, Changting County, Southeast China. Chemosphere 164: 443-450.
108. Cheng, T., Xu, C., Lei, L., Li, C. H., Zhang, Y. & Zhou, S. L. 2016. Barcoding the kingdom Plantae: new PCR primers for ITS regions of plants with improved universality and specificity. Molecular Ecology Resources 16(1): 138-149.
109. Chinnappa, C. H., Rajanikanth, A. & Rao, Y. V. 2016. Early Cretaceous floral diversity and ecology in the Pranhita-Godavari Basin, East Coast of India. Journal of the Palaeontological Society of India 61(2): 189-214.
110. Chlachula, J. & Krupyanko, A. A. 2016. Sequence stratigraphy and environmental background of the late Pleistocene and Holocene occupation in the Southeast Primor'ye (the Russian Far East). Quaternary Science Reviews 142: 120-142.
111. Choo, T. Y. S., Escapa, I. H. & Bomfleur, B. 2016. Monotypic colonies of *Clathropteris meniscioides* (Dipteridaceae) from the Early Jurassic of central Patagonia, Argentina: implications for taxonomy and palaeoecology. Palaeontographica Abteilung B-Palaophytologie 294(1-4): 85-109.
112. Christenhusz, M. J. M. & Byng, J. W. 2016. The number of known plants species in the world and its annual increase. Phytotaxa 261(3): 201-217.
113. Chua, S. C., Ramage, B. S. & Potts, M. D. 2016. Soil degradation and feedback processes affect long-term recovery of tropical secondary forests. Journal of Vegetation Science 27(4): 800-811.
114. Clark, J., Hidalgo, O., Pellicer, J., Liu, H. M., Marquardt, J., Robert, Y., Christenhusz, M., Zhang, S. Z., Gibby, M., Leitch, I. J. & Schneider, H. 2016. Genome evolution of ferns: evidence for relative stasis of genome size across the fern phylogeny. New Phytologist 210(3): 1072-1082.
115. Clauson-Kaas, F., Hansen, H. C. B. & Strobel, B. W. 2016. UPLC-MS/MS determination of ptaquiloside and pterosin B in preserved natural water. Analytical and Bioanalytical Chemistry 408(28): 7981-7990.
116. Clauson-Kaas, F., Ramwell, C., Hansen, H. C. B. & Strobel, B. W. 2016. Ptaquiloside from bracken in stream water at base flow and during storm events. Water Research 106: 155-162.
117. Cleary, D. F. R. 2016. Diversity and composition of plants, butterflies and odonates in an *Imperata cylindrica* grassland landscape in East Kalimantan, Indonesia. Journal of Tropical Ecology 32: 555-560.
118. Clyde, W. C., Ramezani, J., Johnson, K. R., Bowring, S. A. & Jones, M. M. 2016. Direct high-precision U-Pb geochronology of the End-Cretaceous extinction and calibration of Paleocene astronomical timescales. Earth and Planetary Science Letters 452: 272-280.
119. Coca-Salazar, A., Villca, H., Torrico, M. & Alfaro, F. D. 2016. Plant communities on the islands of two Altiplanic salt lakes in the Andean region of Bolivia. Check List 12(5): e1975.
120. Colletta, G. D., Souza, V. C., Almeida, T. E., Cabral, F. N., Diogo, I. J. S., Flores, T. B., Coelho, R. L. G., Moreno, V. S., Salino, A., Ferreira, M. A. P., Ivanauskas, N. M., Tamashiro, J. Y., Liboni, A. P., Neto, A. C. R., Virillo, C. B., Delfini, C. F., De Moraes Potascheff, C., Braga, D. P. P., Oliveira, D. B., Castillo-Dáaz, D. C., Mello, F. N. A., Florido, F. G., Fagundes, I. C., Rigon, J., Kuntz, J., Costa, M. F. B., Bettinardi, M. L., Neto, M. A. O., Caramez, R. B., Polisel, R. T., Girão, V. J. & Rodrigues, R. R. 2016. Vascular flora of the legado das Águas, reserva Votorantim, municipalities of Tapirá, Miracatá and Juquiá, São Paulo, Brazil. Check List 12(6): e2020.

121. Colwell, R. K., Gotelli, N. J., Ashtone, L. A., Beck, J., Brehm, G., Fayle, T. M., Fiedler, K., Forister, M. L., Kessler, M., Kitching, R. L., Klimes, P., Kluge, J., Longino, J. T., Maunsell, S. C., McCain, C. M., Moses, J., Noben, S., Sam, K., Sam, L., Shapiro, A. M., Wangu, X. & Novotny, V. 2016. Midpoint attractors and species richness: Modeling the interaction between environmental drivers and geometric constraints. *Ecology Letters* 19: 1009-1022.
122. Cook, J. G., Cook, R. C., Davis, R. W. & Irwin, L. L. 2016. Nutritional ecology of elk during summer and autumn in the Pacific Northwest. *Wildlife Monographs* 195(1): 1-81.
123. Corton, J., Donnison, I. S., Patel, M., Bühlé, L., Hodgson, E., Wachendorf, M., Bridgwater, A., Allison, G. & Fraser, M. D. 2016. Expanding the biomass resource: sustainable oil production via fast pyrolysis of low input high diversity biomass and the potential integration of thermochemical and biological conversion routes. *Applied Energy* 177: 852-862. [*Pteridium aquilinum*]
124. Costa, R. M. S., Pavone, P., Caruso, R. & Pulvirenti, S. 2016. Diachronic analysis of biodiversity: study of a herbarium "reviewed" by Francesco Cupani (1657-1710) at the end of the 17th century. *Plant Biosystems* 150(4): 834-845.
125. Cremers, G., Boudrie, M., Aymonin, G. & Viane, R. L. L. 2016. Le Père Charles Plumier (1646 - 1704): son œuvre, son herbier de ptéridophytes américains. 1. Biographie – collection. *Journal de Botanique de la Société Botanique de France* 75: 81-110. [French]
126. Cremers, G., Flament, G. & Boudrie, M. 2016. Lectotypification of ten pteridophyte taxa from tropical America, especially for the Paris herbarium (P). *Adansonia* 38(1): 9-14. [French]
127. Cross, R. 2016. Fern-derived insecticide protects cotton. *Chemical & Engineering News* 94(37): 8-9. [*Tectaria macrodonta*]
128. Cullen, E. & Rudall, P. J. 2016. The remarkable stomata of horsetails (*Equisetum*): patterning, ultrastructure and development. *Annals of Botany* 118(2): 207-218.
129. da Conceicao, D. M., Andrade, L. S. de, Cisneros, J. C., Iannuzzi, R., Pereira, A. A. & Machado, F. C. 2016. New petrified forest in Maranhao, Permian (Cisuralian) of the Parnaiba Basin, Brazil. *Journal of South American Earth Sciences* 70: 308-323.
130. da Silva, D. A., Watanabe, A. H. Q. & Marcal, W. S. 2016. Epidemiological study on the prevalence of Bovine Enzootic Haematuria associated with bracken fern presence in Parana State, Brazil. *Brazilian Journal of Hygiene and Animal Sanity* 10(1): 78-89.
131. da Silveira, R. R. & Souza, P. A. 2016. Palynology (fungi and fern spores, gymnosperm pollen grains, algae cysts and scolecodont) from the solimões and içá formations (Neogene and Pleistocene, Solimões Basin), Amazonas, Brazil. *Pesquisas em Geociencias* 43(1): 17-39.
132. Dada, O. A., Adekola, F. A. & Odebunmi, E. O. 2016. Kinetics and equilibrium models for sorption of Cu(II) onto a novel manganese nano-adsorbent. *Journal of Dispersion Science and Technology* 37(1): 119-133. [tree ferns]
133. Danelli, M. F., Fisch, S. T. V. & Vieira, S. A. 2016. Analysis of the forest structure and the biomass of harvesting areas of Jucara fruits (*Euterpe edulis* Mart.) in the northern coast and in Serra do Mar, SP state - Brazil. *Ciencia Florestal* 26(3): 773-786.
134. D'Aquino, L., Staiano, M., Gambale, E., Basile, A. & Tommasi, F. 2016. Uptake and distribution of several inorganic ions in *Nephrolepis cordifolia* (L.) C. Presl grown on contaminated soil. *Plant Biosystems*: 1-11.
135. Das, S. & Mazumdar, K. 2016. Phytoremediation potential of a novel fern, *Salvinia cucullata*, Roxb. ex Bory, to pulp and paper mill effluent: physiological and anatomical response. *Chemosphere* 163: 62-72.

136. Dauphin, B., Grant, J. & Mraz, P. 2016. Ploidy level and genome size variation in the homosporous ferns *Botrychium* s.l. (Ophioglossaceae). *Plant Systematics and Evolution* 302(5): 575-584.
137. De, A. K., Dey, N. & Adak, M. K. 2016. Bioindices for 2,4-D sensitivity between two plant species: *Azolla pinnata* R.Br. and *Vernonia cinerea* L. with their cellular responses. *Physiology and Molecular Biology of Plants* 22(3): 371-380.
138. del Castillo-Batista, A. P., Figueroa-Rangel, B. L., Lozano-Garcia, S., Olvera-Vargas, M. & Guzman, R. C. 2016. Floristic and environmental history of the cloud forest in west-central Mexico during the little ice age. *Revista Mexicana de Biodiversidad* 87(1): 216-229.
139. del Pliego, P. G., Scheffers, B. R., Basham, E. W., Woodcock, P., Wheeler, C., Gilroy, J. J., Uribe, C. A. M., Haugaasen, T., Freckleton, R. P. & Edwards, D. P. 2016. Thermally buffered microhabitats recovery in tropical secondary forests following land abandonment. *Biological Conservation* 201: 385-395.
140. Delorme, Q., Mille, C. & Jourdan, H. 2016. Description of a new genus and two new species of high frequency cicada from New Caledonia (Insecta: Hemiptera, Cicadoidea, Cicadidae). *Zootaxa* 4126(4): 563-576.
141. Devi, K. 2016. Anthelmintic pteridophytes. *Indian Fern Journal* 33(1-2): 61-68.
142. Devi, R. K., Vasantha, S., Panneerselvam, A., Rajesh, N. V. & Jeyathilakan, N. 2016. Phytochemical constituents and *in vitro* trematocidal activity of *Blechnum orientale* Linn. against *Gastrothylax crumenifer*. *Annals of Phytomedicine-an International Journal* 5(1): 127-134.
143. Di Pasquo, M., Rodriguez, E., Otano, N. N., Munoz, N. & Silvestri, L. 2016. Fern (Monilophyta) and lycophyte spores present in the National Park El Palmar (Entre Rios, Argentina). *Boletin de la Sociedad Argentina de Botanica* 51(2): 269-298.
144. Dimichele, W. A., Bashforth, A. R., Eble, C. F. & Nelson, W. J. 2016. A Middle Pennsylvanian (Early Asturian) tropical dry forest, Atokan-Desmoinesian boundary, Illinois Basin, USA. *Spanish Journal of Paleontology* 31(1): 41-84.
145. Dissanayake, D., Wijesinghe, W., Iqbal, S. S., Priyantha, N. & Iqbal, M. C. M. 2016. Fuchsine biosorption using *Asplenium nidus* biosorbent-a mechanism using kinetic and isotherm data. *RSC Advances* 6(101): 98682-98692.
146. Dissanayake, D., Wijesinghe, W., Iqbal, S. S., Priyantha, N. & Iqbal, M. C. M. 2016. Isotherm and kinetic study on Ni(II) and Pb(II) biosorption by the fern *Asplenium nidus* L. *Ecological Engineering* 88: 237-241.
147. Ditus, S. F., Fontenot, E. B., Wallace, R. W., Silvers, M. A., Steele, T. N., Elnagar, A. H., Dearman, K. M. & Smith, A. P. 2016. A member of the phosphate transporter 1 (Pht1) family from the arsenic-hyperaccumulating fern *Pteris vittata* is a high-affinity arsenate transporter. *New Phytologist* 209(2): 762-772.
148. Donaldson, L. 2016. Aquatic ferns show how to clean up oil. *Materials Today* 19(9): 485.
149. Dong, S. Y., Zuo, Z. Y., Chao, Y. S., Damas, K. & Sule, B. 2016. New species of the fern genus *Lindsaea* (Lindsaeaceae) from New Guinea with notes on the phylogeny of L. sect. *Synaphlebium*. *Plos One* 11(10): e0163686.[*Lindsaea novoguineensis*, *Lindsaea subobscura*]
150. Doweld, A. B. 2016. *Marsilea owambo*, a new name for *Marsilea vera* (Marsileaceae). *American Fern Journal* 106(2): 143.
151. Du, C., Wang, L., Pan, M. & Guo, Z. 2016. Study on granul shape and pasting properties of fern root starch. *Journal of the Chinese Cereals and Oils Association* 31(7): 46-50.

152. Dubal, K., Patil, S., Dongare, M. & Kale, M. 2016. GC-MS analysis of *Tectaria polymorpha* (Wall. ex Hook.) Copel. from northern Western Ghats. Indian Fern Journal 33(1-2): 206-211.
153. Dubuisson, J. Y., Bauret, L., Grall, A., Li, T., Ebihara, A. & Hennequin, S. 2016. Discussion on the taxonomy of African fern *Abrodictyum rigidum* (Sw.) Ebihara & Dubuisson and description of two new *Abrodictyum* C. Presl species (Hymenophyllaceae, Polypodiidae) for the Afro-Malagasy region. Phytotaxa 284(3): 151-168.[*Abrodictyum francesae*, *A. pseudorigidum*, new species]
154. Dubuisson, J. Y., Hennequin, S., Droissart, V. & Deblauwe, V. 2016. *Hymenophyllum senterreanum* Dubuisson & Deblauwe, sp. nov. (Hymenophyllaceae) and its relatives in western Central Africa. Phytotaxa 257(3): 287-294.[new species]
155. Dussan, C. M., Martinez, C., Escapa, I. & Madrinan, S. 2016. New records of ferns and conifers from the Lower Cretaceous in the Upper Magdalena Valley Basin, Colombia. Boletin de Geologia 38(4): 29-42.
156. Earp, C. 2016. Cunningham's Flora Insularum Novae Zelandiae precursor and the correct author of the fern genus *Loxsoma* nom. cons. New Zealand Journal of Botany 54(3): 366-376.
157. Ebihara, A., Nakato, N., Amoroso, V. B., Hidayat, A. & Kuo, L. Y. 2016. *Monachosorum arakii* Tagawa (Dennstaedtiaceae) is a relict “international” hybrid: a reassessment of the *Monachosorum* species. Systematic Botany 41(3): 586-595.
158. Ebuele, V. O., Santoro, A. & Thoss, V. 2016. Phosphorus speciation by 31P NMR spectroscopy in bracken (*Pteridium aquilinum* (L.) Kuhn) and bluebell (*Hyacinthoides non-scripta* (L.) Chouard ex Rothm.) dominated semi-natural upland soil. Science of the Total Environment 566-567: 1318-1328.
159. Ekrt, L. & Koutecky, P. 2016. Between sexual and apomictic: unexpectedly variable sporogenesis and production of viable polyhaploids in the pentaploid fern of the *Dryopteris affinis* agg. (Dryopteridaceae). Annals of Botany 117(1): 97-106.
160. El Atfy, H., Sallam, H., Jasper, A. & Uhl, D. 2016. The first evidence of paleo-wildfire from the Campanian (Late Cretaceous) of North Africa. Cretaceous Research 57: 306-310.
161. El-Deen, G. E. S. & El-Deen, S. 2016. Kinetic and isotherm studies for adsorption of Pb(II) from aqueous solution onto coconut shell activated carbon. Desalination and Water Treatment 57(59): 28910-28931. [tree fern]
162. Elliott-Kingston, C., Haworth, M., Yearsley, J. M., Batke, S. P., Lawson, T. & McElwain, J. C. 2016. Does size matter? Atmospheric CO₂ may be a stronger driver of stomatal closing rate than stomatal size in taxa that diversified under low CO₂. Frontiers in Plant Science 7: e1253.
163. Ellison, A. M., Plotkin, A. A. B. & Khalid, S. 2016. Foundation species loss and biodiversity of the herbaceous layer in New England forests. Forests 7(1): e9.
164. Ellwood, M. D. F., Bluthgen, N., Fayle, T. M., Foster, W. A. & Menzel, F. 2016. Competition can lead to unexpected patterns in tropical ant communities. Acta Oecologica-International Journal of Ecology 75: 24-34.[*Asplenium nidus*]
165. El-Shafai, S. A., Abdelfattah, I., Nasr, F. A. & Fawzy, M. E. 2016. *Lemna gibba* and *Azolla filiculoides* for sewage treatment and plant protein production. Research Journal of Pharmaceutical, Biological and Chemical Sciences 7(2): 1869-1876.
166. Encina-Dominguez, J. A., Estrada-Castillon, E., Villarreal-Quintanilla, J. A., Villasenor, J. L., Cantu-Ayala, C. M. & Arevalo, J. R. 2016. Floristic richness of the Sierra de Zapaliname, Coahuila, Mexico. Phytotaxa 283(1): 1-42.

167. Engemann, K., Sandel, B., Enquist, B. J., Jorgensen, P. M., Kraft, N., Marcuse-Kubitz, A., McGill, B., Morueta-Holme, N., Peet, R. K., Violle, C., Wiser, S. & Svenning, J. C. 2016. Patterns and drivers of plant functional group dominance across the Western Hemisphere: a macroecological re-assessment based on a massive botanical dataset. *Botanical Journal of the Linnean Society* 180(2): 141-160.
168. Ermilov, S. G. 2016. First record of the genus *Dorycranosus* (Acari, Oribatida, Liacaridae) from the Neotropical region, with description of a new species from Grenada. *Ecologica Montenegrina* 9: 13-18.
169. Erwin, Anggeraini, D. & Suryani. 2016. Chemical analysis and antibacterial activity of the ethanolic extract of *Stenochlaena palustris*. *Der Pharmacia Lettre* 8(1): 233-236.
170. Esteban, S., Llamas, P. M., Garcia-Cortes, H. & Catala, M. 2016. The endocrine disruptor nonylphenol induces sublethal toxicity in vascular plant development at environmental concentrations: A risk for riparian plants and irrigated crops? *Environmental Pollution* 216: 480-486.[bioassay, *Polystichum setiferum*, spores]
171. Eycott, A. E., Esaete, J., Reinio, J., Telford, R. J. & Vandvik, V. 2016. Plant functional group responses in an African tropical forest recovering from disturbance. *Plant Ecology & Diversity* 9(1): 69-80.
172. Ezike, D. N., Nnamani, C. V., Ogundipe, O. T. & Adekanmbi, O. H. 2016. Airborne pollen and fungal spores in Garki, Abuja (North-Central Nigeria). *Aerobiologia* 32(4): 697-707.
173. Faison, E. K., Foster, D. R. & Destefano, S. 2016. Long-term deer exclusion has complex effects on a suburban forest understory. *Rhodora* 118(976): 382-402.
174. Farahpour-Haghani, A., Jalaeian, M. & Landry, B. 2016. *Diasemiopsis ramburialis* (Duponchel) (Lepidoptera, Pyralidae s. l., Spilomelinae) in Iran: First record for the country and first host plant report on water fern (*Azolla filiculoides* Lam., Azollaceae). *Nota Lepidopterologica* 39(1): 1-11.
175. Farfan-Santillan, N., Mendoza-Ruiz, A., Perez-Garcia, B. & Velazquez-Montes, E. 2016. Palinology of the Mexican species of Gleicheniaceae. *Botanical Sciences* 94(2): 281-289.
176. Farooq, M. A., Islam, F., Ali, B., Najeeb, U., Mao, B. Z., Gill, R. A., Yan, G. J., Siddique, K. H. M. & Zhou, W. J. 2016. Arsenic toxicity in plants: cellular and molecular mechanisms of its transport and metabolism. *Environmental and Experimental Botany* 132: 42-52.
177. Farouji, A. E. & Khodayari, H. 2016. Evaluation of vegetation types in the west Zagros (Beiranshahr region as a case study), in Lorestan province, Iran. *Biodiversitas* 17(1): 1-10.
178. Farrar, D. R. 2016. *Vittaria appalachiana* continues to provide insight into the biology of ferns: a commentary on two studies recently published in American Journal of Botany. *American Journal of Botany* 103(4): 593-595.
179. Fawcett, S. & Sundue, M. 2016. Evidence of primary hemiepiphytism in *Pleopeltis bradense* (Polypodiaceae). *Brittonia* 68(2): 187-194.
180. Fay, M. F. & Christenhusz, M. J. M. 2016. Plant conservation and botanic gardens. In: eLS. 1-15.
181. Fayiga, A. O. & Saha, U. K. 2016. Arsenic hyperaccumulating fern: Implications for remediation of arsenic contaminated soils. *Geoderma* 284: 132-143.[*Pteris vittata*]
182. Feilich, K. 2016. How a fern designs a catapult. *Journal of Experimental Biology* 219(9): 1273-1274.[biomechanics, spore dispersal]
183. Feoktistov, D. S. & Gureyeva, I. I. 2016. The ultrastructure of epidermal surface of stem and branch internodes and spores of horsetails of subgenus *Equisetum* (*Equisetum* L., Equisetaceae). *Turczaninowia* 19(1): 47-57.

184. Feoktistov, D. S. & Gureyeva, I. I. 2016. The ultrastructure of epidermal surface of stem internodes of horsetails of subgenus *Hippochaete* (*Equisetum*, Equisetaceae). *Turczaninowia* 19(3): 59-67.
185. Feoktistov, D. S., Gureyeva, I. I. & Mochalov, A. S. 2016. New for the flora of Russia records of horsetail hybrid *Equisetum × lofotense* Lubienski. Systematic notes on the materials of P.N. Krylov Herbarium of Tomsk State University 113: 41–50.
186. Fernandes, R. S. & Salino, A. 2016. A new species and a new combination in *Meniscium* (Thelypteridaceae) from Brazil. *Phytotaxa* 273(3): 175-182.[*Meniscium delicatum*]
187. Fernandez, R., Moreno-Chacon, M., Canessa, R., Mardones, D., Viveros, N. & Saldana, A. 2016. Relationship between ecological breadth of vascular epiphytes and their ecophysiological responses to light availability and moisture in the sclerophyllous mediterranean coastal forest of Chile. *Gayana Botanica* 73(1): 68-76.
188. Ferreira, D. M. C., Amorim, B. S., Maciel, J. R. & Alves, M. 2016. Floristic checklist from an Atlantic Forest vegetation mosaic in reserva particular do património natural Fazenda Tabatinga, Pernambuco, Brazil. Check List 12(6): e2019.
189. Ferreira, N. N., Ferreira, E. P., Ramos, R. R. C. & Carvalho, I. S. 2016. Palynological and sedimentary analysis of the Igarape Ipiranga and Querru 1 outcrops of the Itapecuru Formation (Lower Cretaceous, Parnaiba Basin), Brazil. *Journal of South American Earth Sciences* 66: 15-31.
190. Field, A. R., Testo, W., Bostock, P. D., Holtum, J. A. M. & Waycott, M. 2016. Molecular phylogenetics and the morphology of the Lycopodiaceae subfamily Huperzioideae supports three genera: *Huperzia*, *Phlegmariurus* and *Phylloglossum*. *Molecular Phylogenetics and Evolution* 94: 635-657.
191. Filipin, E. P., Schmidt, E. C., Barufi, J. B., Bouzon, Z. L. & Randi, A. M. 2016. The gametophyte of *Pleopeltis lepidopteris* (Langsd. & Fisch.) de La Sota (Polypodiaceae), a fern from Restinga, after spore cryopreservation: morphological, ultrastructural, and physiological analyses. *International Journal of Plant Sciences* 177(3): 294-303.
192. Flores-Bavestrello, A., Krol, M., Ivanov, A. G., Huner, N. P. A., Garcia-Plazaola, J. I., Corcuera, L. J. & Bravo, L. A. 2016. Two Hymenophyllaceae species from contrasting natural environments exhibit a homoiochlorophyllous strategy in response to desiccation stress. *Journal of Plant Physiology* 191: 82-94.
193. Forbes, A. S., Norton, D. A. & Carswell, F. E. 2016. Tree fern competition reduces indigenous forest tree seedling growth within exotic *Pinus radiata* plantations. *Forest Ecology and Management* 359: 1-10.
194. Fordyce, A., Hradsky, B. A., Ritchie, E. G. & Di Stefano, J. 2016. Fire affects microhabitat selection, movement patterns, and body condition of an Australian rodent (*Rattus fuscipes*). *Journal of Mammalogy* 97(1): 102-111.[*Pteridium esculentum*]
195. Franks, P. J. & Britton-Harper, Z. J. 2016. No evidence of general CO₂ insensitivity in ferns: one stomatal control mechanism for all land plants? *New Phytologist* 211(3): 819-827.
196. Fraser-Jenkins, C. R. 2016. A revised checklist of Indian pteridophytes - 1. *Indian Fern Journal* 33(1-2): 193-205.
197. Freitas, L., Salino, A., Neto, L. M., Almeida, T. E., Mortara, S. R., Stehmann, J. R., Amorim, A. M., Guimaraes, E. F., Coelho, M. N., Zanin, A. & Forzza, R. C. 2016. A comprehensive checklist of vascular epiphytes of the Atlantic Forest reveals outstanding endemic rates. *Phytokeys* 58: 65-79.

198. Freitas-Silva, L. de, Araujo, T. O. de , Silva, L. C., Oliveira, J. A. de & Araujo, J. M. de. 2016. Arsenic accumulation in Brassicaceae seedlings and its effects on growth and plant anatomy. *Ecotoxicology and Environmental Safety* 124: 1-9.
199. Freund, F. D. 2016. Characterizing quantitative variation in the glossopodia of three western North American *Isoetes* species. *American Fern Journal* 106(2): 87-115.
200. Furtado, S. G. & Neto, L. M. 2016. Vascular epiphytic flora of a high montane environment of Brazilian Atlantic Forest: composition and floristic relationships with other ombrophilous forests. *Acta Botanica Brasilica* 30(3): 422-436.
201. Gallegos, S. C., Beck, S. G., Hensen, I., Saavedra, F., Lippok, D. & Schleuning, M. 2016. Factors limiting montane forest regeneration in bracken-dominated habitats in the tropics. *Forest Ecology and Management* 381: 168-176.
202. Ganger, M. T., Zimmerman, E. A., Grund, S. P. & Bissell, J. K. 2016. The vascular plant flora and plant communities of Erie Bluffs State Park, Erie County, Pennsylvania. *Rhodora* 118(974): 148-188.
203. Gao, N. N., Wadhwani, P., Muhlhauser, P., Liu, Q., Riemann, M., Ulrich, A. S. & Nick, P. 2016. An antifungal protein from *Ginkgo biloba* binds actin and can trigger cell death. *Protoplasma* 253(4): 1159-1174.[*Selaginella*]
204. Gasper, A. L. de, Dittrich, V. A. O., Smith, A. R. & Salino, A. 2016. A classification for Blechnaceae (Polypodiales: Polypodiopsida): new genera, resurrected names, and combinations. *Phytotaxa* 275(3): 191-227.
205. Gasper, A. L. de, Eisenlohr, P. V. & Salino, A. 2016. Improving collection efforts to avoid loss of biodiversity: lessons from comprehensive sampling of lycophytes and ferns in the subtropical Atlantic Forest. *Acta Botanica Brasilica* 30(2): 166-175.
206. Gasper, A. L. de, Dittrich, V. A. O., Smith, A. R. & Salino, A. 2016. A classification for Blechnaceae (Polypodiales: Polypodiopsida): new genera, resurrected names, and combinations. *Phytotaxa* 275: 191-227.
207. Ge, Y. C., Liu, J., Zeng, M. H., He, J. F., Qin, P., Huang, H. & Xu, L. 2016. Identification of WOX family genes in *Selaginella kraussiana* for studies on stem cells and regeneration in lycophytes. *Frontiers in Plant Science* 7: e93.
208. Genre, A. & Bonfante, P. 2016. The structure of arbuscular mycorrhizas: a cell biologist's view, In: Martin, F. (ed.). *Molecular Mycorrhizal Symbiosis*. Wiley Blackwell: Hoboken, pp. 33-45.
209. George, M. & Josekumar, V. S. 2016. *In vitro* cytotoxicity screening, phytochemical profile and heavy metal analysis of different extracts of *Acrostichum heterophyllum* L. *Indian Journal of Natural Products and Resources* 7(1): 19-24.[*Drymoglossum heterophyllum*]
210. Geraskina, A. P. 2016. Population of earthworms (Lumbricidae) in the main types of dark coniferous forests at the Pechora-Ilych Nature Reserve. *Biology Bulletin* 43(8): 819-830.[*Dryopteris dilatata*]
211. Ghoreishi, L. & Moniri, M. H. 2016. Cytological confirmation of tetraploid *Asplenium ceterach* in Iran. *American Fern Journal* 106(4): 271-273.
212. Ghosh, A. K., Kar, R. & Chatterjee, R. 2016. Reassessment of the Macroflora of the Parsora formation with remarks on the age connotation. *Journal of the Palaeontological Society of India* 61(2): 225-238.
213. Gibby, M. & Paul, A. M. 2016. The publications of A. C. Jermy. *The Fern Gazette* 20(3): 136-142.

214. Gomez-Garay, A., Pintos, B., Manzanera, J. A., Prada, C., Martin, L. & Gabriel-y-Galan, J. M. 2016. Nanoceria and bulk cerium oxide effects on the germination of *Asplenium adiantum-nigrum* spores. Forest Systems 25(3): e067.
215. Gomez-Noguez, F., Perez-Garcia, B., Mehltreter, K., Orozco-Segovia, A. & Rosas-Perez, I. 2016. Spore mass and morphometry of some fern species. Flora 223: 99-105.
216. Gonzalez, F., Moreno, C., Lorenzo, E. & Marquez, G. 2016. Factors controlling the vegetation distribution and coal-forming environments in a strike-slip basin. The Pennsylvanian Penarroya-Belmez-Espiel Basin, southern Spain. Terra Nova 28(3): 171-180.
217. Gonzalez, G. E., Prada, C. & Rolleri, C. H. 2016. A new polyploid of *Blechnum occidentale* (Blechnaceae-Polypodiopsida) for the northwest of Argentina. Botanica Complutensis 40: 53-61.
218. Gonzatti, F., Machado, L. & Windisch, P. G. 2016. Distribution patterns of ferns and lycophytes in the Coastal Region of the state of Rio Grande do Sul, Brazil. Acta Botanica Brasilica 30(2): 239-253.
219. Goodnoe, T. T. & Hill, J. P. 2016. Absolute and relative content of carbon and nitrogen differ by sex in *Ceratopteris richardii* gametophytes. Botany 94(5): 405-410.
220. Goodnoe, T. T., Hill, J. P. & Aho, K. 2016. Effects of variation in carbon, nitrogen, and phosphorus molarity and stoichiometry on sex determination in the fern *Ceratopteris richardii*. Botany 94(4): 249-259.
221. Goswami, H. K., Sen, K. & Mukhopadhyay, R. 2016. Pteridophytes: evolutionary boon as medicinal plants. Plant Genetic Resources-Characterization and Utilization 14(4): 328-355.
222. Gottlieb, J. E. 2016. Fern sex after 60 million years of separation. Indian Fern Journal 33(1-2): 47-54.
223. Grimm, J., Hoffmann, M., Stöver, B., Müller, K. & Steinhage, V. 2016. Image-based identification of plant species using a model-free approach and active learning C3. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 9904: 169-176.
224. Groot, M. de, Eler, K., Flajsman, K., Grebenc, T., Marinsek, A. & Kutnar, L. 2016. Differential short-term response of functional groups to a change in forest management in a temperate forest. Forest Ecology and Management 376: 256-264.
225. Grusz, A. L. 2016. A current perspective on apomixis in ferns. Journal of Systematics and Evolution 54(6): 656-665.
226. Grusz, A. L., Rothfels, C. J. & Schuettpelz, E. 2016. Transcriptome sequencing reveals genome-wide variation in molecular evolutionary rate among ferns. BMC Genomics 17: e692.
227. Guatimosim, E., Schwartsburd, P. B., Barreto, R. W. & Crous, P. W. 2016. Novel fungi from an ancient niche: cercosporoid and related sexual morphs on ferns. Persoonia 37: 106-141.
228. Guatimosim, E., Schwartsburd, P. B., Crous, P. W. & Barreto, R. W. 2016. Novel fungi from an ancient niche: lachnoid and chalara-like fungi on ferns. Mycological Progress 15(12): 1239-1267.
229. Guerriero, G., Hausman, J. F. & Legay, S. 2016. Silicon and the plant extracellular matrix. Frontiers in Plant Science 7: e463.
230. Guislon, A. V., Ceron, K., Elias, G. A., Santos, R. & Citadini-Zanette, V. 2016. Structure of herbaceous vegetation in riparian landscapes in Southern Santa Catarina, Brazil. Revista Ambiente e Agua 11(3): 650-664.

231. Guo, Z. Y., Zhang, H. R., Wei, R., Li, Z. Y., Yao, Z. M. & Zhang, X. C. 2016. New records of lycopods and ferns from Maolan Nature Reserve of Libo (Guizhou, China). Indian Fern Journal 33(1-2): 222-225.
232. Gureyeva, I. I. & Timoshok, E. E. 2016. Ferns in the present-day periglacial zone of the Central Altai. Contemporary Problems of Ecology 9(1): 18-28.
233. Haig, D. 2016. Living together and living apart: the sexual lives of bryophytes. Philosophical Transactions of the Royal Society B-Biological Sciences 371(1706): e20150535.
234. Halamski, A. T. & Kvacek, J. 2016. The Coniacian leaf flora from the northeastern part of the Bohemian Cretaceous Basin. Bulletin of Geosciences 91(2): 297-318.
235. Halamski, A. T., Kvacek, J. & Vajda, V. 2016. Late Cretaceous (Campanian) leaf and palynoflora from southern Skane, Sweden, In: Kear, B. P., Lindgren, J., Hurum, J. H., Milan, J. & Vajda, V. (ed.). Mesozoic biotas of Scandinavia and its Arctic territories. Geological Society: Bath, pp. 207-230.
236. Hamad, A. M. B. A., Amireh, B., El Atfy, H., Jasper, A. & Uhl, D. 2016. Fire in a *Weichselia*-dominated coastal ecosystem from the Lower Cretaceous (Barremian) of the Kurnub Group in NW Jordan. Cretaceous Research 66: 82-93.
237. Hamdan, M. A., Ibrahim, M. I. A., Shiha, M. A., Flower, R. J., Hassan, F. A. & Eltelet, S. A. M. 2016. An exploratory Early and Middle Holocene sedimentary record with palynoforms and diatoms from Faiyum Lake, Egypt. Quaternary International 410: 30-42.
238. Hammami, S., Snene, A., El Mokni, R., Faidi, K., Falconieri, D., Dhaouadi, H., Piras, A., Mighri, Z. & Porcedda, S. 2016. Essential oil constituents and antioxidant activity of *Asplenium* ferns. Journal of Chromatographic Science 54(8): 1341-1345.
239. Han, M. Q., Liu, Y. & Zhang, L. B. 2016. Seven new species of *Polystichum* (subg. *Haplopolystichum*; Dryopteridaceae) from southern China. Phytotaxa 280(3): 201-221.[*Polystichum arcuatum*, *P. crassirachis*, *P. membranifolium*, *P. multispinulosum*, *P. paraobliquum*, *P. paucicarpum*, *P. serratissimum*]
240. Han, P., Lai, Y. J., Chen, J., Zhang, X. N., Chen, J. L., Yang, X., Xue, P. P. & Ruan, J. L. 2016. Protective potential of the methanol extract of *Macrothelypteris oligophlebia* rhizomes for chronic non-bacterial prostatitis in rats. Pakistan Journal of Pharmaceutical Sciences 29(4): 1217-1221.
241. Han, Y. H., Yang, G. M., Fu, J. W., Guan, D. X., Chen, Y. & Ma, L. Q. 2016. Arsenic-induced plant growth of arsenic-hyperaccumulator *Pteris vittata*: Impact of arsenic and phosphate rock. Chemosphere 149: 366-372.
242. Hande, P. R. & Dongare, M. M. 2016. Rhizosphere and non-rhizosphere mycoflora of two ferns from Panhala Fort, Kolhapur, Maharashtra, India. Journal of Threatened Taxa 8(3): 8638-8640.[*Anogramma leptophylla*, *Hypodematiump crenatum*]
243. Hara, A., Takaichi, H., Murata, Y., Sakata, R., Hara, Y., Iwase, J., Comparini, D., Suzuki, T. & Kawano, T. 2016. Optical evaluation of the shading properties of climbing fern *Lygodium japonicum* used as a thermal buffering green wall plant. Advances in Horticultural Science 30(2): 59-67.
244. Harris, E. B. & Arens, N. C. 2016. A mid-Cretaceous angiosperm-dominated macroflora from the Cedar Mountain Formation of Utah, USA. Journal of Paleontology 90(4): 640-662.
245. Harris-Valle, C., Mora-Guzman, E., Sanchez-Arias, M. D. & Palafox-Rodriguez, M. 2016. Characterization of arbuscular mycorrhizal fungi associated with *Cyathea* spp. in Sierra

- Nororiental Poblana following an altitude gradient in spring and summer. *Interciencia* 41(10): 680-685.
246. Haufler, C. H., Pryer, K. M., Schuettpelz, E., Sessa, E. B., Farrar, D. R., Moran, R., Schneller, J. J., Watkins, J. E. & Windham, M. D. 2016. Sex and the single gametophyte: revising the homosporous vascular plant life cycle in light of contemporary research. *Bioscience* 66(11): 928-937.
247. Hawes, M. C., McLain, J., Ramirez-Andreotta, M., Curlango-Rivera, G., Flores-Lara, Y. & Brigham, L. A. 2016. Extracellular trapping of soil contaminants by root border cells: new insights into plant defense. *Agronomy-Basel* 6(1): e5. [*Pteris vittata*]
248. Hawksworth, D. L., van Geel, B. & Wiltshire, P. E. J. 2016. The enigma of the *Diporotheca* palynomorph. *Review of Palaeobotany and Palynology* 235: 94-98.
249. He, X. Z., Wang, S. J. & Wang, J. 2016. *Chansitheca wudaensis* (Gleicheniaceae, fern) from the early Permian Wuda Tuff Flora, Inner Mongolia. *Palaeoworld* 25(2): 199-211.
250. He, Z. Y., Yan, H. L., Chen, Y. S., Shen, H. L., Xu, W. X., Zhang, H. Y., Shi, L., Zhu, Y. G. & Ma, M. 2016. An aquaporin PvTIP4;1 from *Pteris vittata* may mediate arsenite uptake. *New Phytologist* 209(2): 746-761.
251. Hebda, R. J., Lian, O. B. & Hicock, S. R. 2016. Olympia Interstadial: vegetation, landscape history, and paleoclimatic implications of a mid-Wisconsinan (MIS3) nonglacial sequence from southwest British Columbia, Canada. *Canadian Journal of Earth Sciences* 53(3): 304-320.
252. Hegland, S. J. & Rydgren, K. 2016. Eaten but not always beaten: winners and losers along a red deer herbivory gradient in boreal forest. *Journal of Vegetation Science* 27(1): 111-122.
253. Hein, A., Polsakiewicz, M. & Knoop, V. 2016. Frequent chloroplast RNA editing in early-branching flowering plants: pilot studies on angiosperm-wide coexistence of editing sites and their nuclear specificity factors. *BMC Evolutionary Biology* 16: e23.
254. Heringer, G., Valdespino, I. A. & Salino, A. 2016. *Selaginella* P. Beauv. from Minas Gerais, Brazil. *Acta Botanica Brasilica* 30(1): 60-77.
255. Herman, A. B. & Sokolova, A. B. 2016. Late Cretaceous Kholokhovchan flora of Northeastern Asia: composition, age and fossil plant descriptions. *Cretaceous Research* 59: 249-271.
256. Herman, A. B., Golovneva, L. B., Shchepetov, S. V. & Grabovsky, A. A. 2016. The Late Cretaceous Arman flora of Magadan Oblast, Northeastern Russia. *Stratigraphy and Geological Correlation* 24(7): 651-760.
257. Hibbett, D., Blanchette, R., Kenrick, P. & Mills, B. 2016. Climate, decay, and the death of the coal forests. *Current Biology* 26(13): R563-R567.
258. Hirai, R. Y., Gissi, D. S. & Prado, J. 2016. Criptógamos do Parque Estadual das Fontes do Ipiranga, São Paulo, SP, Brasil. *Pteridophyta: 22. Thelypteridaceae e lista atualizada dos táxons. Hoehnea* 43(1): 39-56. [Portuguese]
259. Hirai, R. Y., Schuettpelz, E., Huiet, L., Pryer, K. M., Smith, A. R. & Prado, J. 2016. Phylogeny and relationships of the neotropical *Adiantum raddianum* group (Pteridaceae). *Taxon* 65(6): 1225-1235.
260. Ho, Y. W., Huang, Y. L., Chen, J. C. & Chen, C. T. 2016. Habitat environment data and potential habitat interpolation of *Cyathea lepifera* at the Tajen Experimental Forest Station in Taiwan. *Tropical Conservation Science* 9(1): 153-166.

261. Holmlund, H. I., Lekson, V. M., Gillespie, B. M., Nakamatsu, N. A., Burns, A. M., Sauer, K. E., Pittermann, J. & Davis, S. D. 2016. Seasonal changes in tissue-water relations for eight species of ferns during historic drought in California. *American Journal of Botany* 103(9): 1607-1617.
262. Hou, C. J. & Yang, C. H. 2016. Comparative analysis of the pteridophyte *Adiantum* MFT ortholog reveals the specificity of combined FT/MFT C and N terminal interaction with FD for the regulation of the downstream gene AP1. *Plant Molecular Biology* 91(4-5): 563-579.
263. Houser, D. C., From, M., Landry, M., Copeland, A. & Kellar, P. R. 2016. Systematics of *Diplazium laffanianum* (Athyriaceae), a fern species endemic to Bermuda. *American Fern Journal* 106(3): 206-222.
264. Hoveka, L. N., Bezeng, B. S., Yessoufou, K., Boatwright, J. S. & van der Bank, M. 2016. Effects of climate change on the future distributions of the top five freshwater invasive plants in South Africa. *South African Journal of Botany* 102: 33-38.[*Azolla filiculoides*, *Salvinia molesta*]
265. Hovenkamp, P. 2016. The publications of E. "Bert" Hennipman. *The Fern Gazette* 20(3): 133-135.
266. Hovenkamp, P., Hetterscheid, W., Roos, M. & van Uffelen, G. 2016. Bert Hennipman (1937-2014). *American Fern Journal* 106(2): 144-146.
267. Hovenkamp, P., Yan, S. K. & Choi, Y. H. 2016. Seasonal changes in starch content in trophopods of *Matteuccia struthiopteris*. *American Fern Journal* 106(3): 153-160.
268. Howell, C. J. & McAlpine, K. G. 2016. Native plant species richness in non-native *Pinus contorta* forest. *New Zealand Journal of Ecology* 40(1): 131-136.
269. Hsieh, H. L., Yang, S. H., Lee, T. H., Fang, J. Y. & Lin, C. F. 2016. Evaluation of anti-inflammatory effects of *Helminthostachys zeylanica* extracts via inhibiting bradykinin-induced MMP-9 expression in brain astrocytes. *Molecular Neurobiology* 53(9): 5995-6005.
270. Huang, S. Q., Fu, J. T., Wang, K., Xu, H. H. & Zhang, Z. X. 2016. Insecticidal activity of the methanol extract of *Pronephrium megacuspe* (Thelypteridaceae) and its active component on *Solenopsis invicta* (Hymenoptera: Formicidae). *Florida Entomologist* 99(4): 634-638.
271. Huang, Y., Miyauchi, K., Inoue, C. & Endo, G. 2016. Development of suitable hydroponics system for phytoremediation of arsenic-contaminated water using an arsenic hyperaccumulator plant *Pteris vittata*. *Bioscience Biotechnology and Biochemistry* 80(3): 614-618.
272. Hussain, N., Abbasi, T. & Abbasi, S. A. 2016. Vermiremediation of an invasive and pernicious weed salvinia (*Salvinia molesta*). *Ecological Engineering* 91: 432-440.[allelopathy, decomposition, vermicompost]
273. Iacona, G., Price, F. D. & Armsworth, P. R. 2016. Predicting the presence and cover of management relevant invasive plant species on protected areas. *Journal of Environmental Management* 166: 537-543.[*Lygodium microphyllum*]
274. Ichihara, Y. & Nakato, N. 2016. A new record of pentaploid *Pteris x psuedosefuricola* from Shizuoka and Tochigi Prefectures. *Bunrui* 16(2): 153-158.
275. Iglesias, A. 2016. New Upper Cretaceous (Campanian) Flora from James Ross Island, Antarctica. *Ameghiniana* 53(3): 358-374.
276. Imai, R., Tsuda, Y., Matsumoto, S., Ebihara, A. & Watano, Y. 2016. The relationship between mating system and genetic diversity in diploid sexual populations of *Cyrtomium falcatum* in Japan. *Plos One* 11(10): e0163683.
277. Iwatsuki, K. 2016. Studies on Asian ferns 3. *Journal of Japanese Botany* 91: 330-334.

278. Jaffe, B. D., Ketterer, M. E. & Hofstetter, R. W. 2016. Terrestrial invertebrate arsenic accumulation associated with an arsenic hyperaccumulating fern, *Pteris vittata* (Polypodiales: Pteridaceae). Environmental Entomology 45(5): 1306-1315.
279. Jaimez, D. G. & Martinez, O. G. 2016. *Campyloneurum angustifolium*, a new Polypodiaceae record for Argentina. Boletin de La Sociedad Argentina de Botanica 51(2): 353-357.
280. Jaimez, D. G., Martinez, O. G. & León, B. 2016. *Campyloneurum*. Flora Argentina 2: 237-242. [Spanish]
281. Janakiraman, N. & Johnson, M. 2016. Ethanol extracts of selected *Cyathea* species decreased cell viability and inhibited growth in MCF 7 cell line cultures. JAMS Journal of Acupuncture and Meridian Studies 9(3): 151-155.
282. Jarzynka, A. 2016. Fossil flora of Middle Jurassic Grojec clays (southern Poland). Raciborski's original material reinvestigated and supplemented. II. Pteridophyta. Osmundales. Acta Palaeobotanica 56: 183-221.
283. Jatoba, L. D., Varela, R. M., Molinillo, J. M. G., Din, Z. U., Gualtieri, S. C. J., Rodrigues, E. & Macias, F. A. 2016. Allelopathy of bracken fern (*Pteridium arachnoideum*): new evidence from green fronds, litter, and soil. Plos One 11(8): e0161670.
284. Jha, A. K. & Prasad, K. 2016. Aquatic fern (*Azolla* sp.) assisted synthesis of gold nanoparticles. International Journal of Nanoscience 15(1-2): e1650008.
285. Jia, Q., Li, G., Köllner, T. G., Fu, J., Chen, X., Xiong, W., Crandall-Stotler, B. J., Bowman, J. L., Weston, D. J., Zhang, Y., Chen, L., Xie, Y., Li, F. W., Rothfels, C. J., Larsson, A., Graham, S. W., Stevenson, D. W., Wong, G. K. S., Gershenson, J. & Chen, F. 2016. Microbial-type terpene synthase genes occur widely in nonseed land plants, but not in seed plants. Proceedings of the National Academy of Sciences of the United States of America 113(43): 12328-12333.
286. Jiang, B., Tang, L. J. & Huang, J. H. 2016. Study on the inorganic components elements in rare and endangered plant *Alsophila spinulosa*. Spectroscopy and Spectral Analysis 36(5): 1468-1472.
287. Jimenez, J. E., Juarez, P. & Diaz, A. 2016. Checklist of the vascular flora of Reserva Biológica San Luis, Costa Rica. Check List 12(2): e1859.
288. Johnson, M., Rajkumar, S. D., Shivila, T., Gautam, R. P., Singh, S. K. & Srivastava, S. K. 2016. Intraspecific variation studies on medicinally important species of *Adiantum* using SDS PAGE. Indian Fern Journal 33(1-2): 55-60.
289. Jones, M. M., Ruokolainen, K., Martinez, N. C. L. & Tuomisto, H. 2016. Differences in topographic and soil habitat specialization between trees and two understorey plant groups in a Costa Rican lowland rain forest. Journal of Tropical Ecology 32: 482-497.
290. Kaewsuwan, S. & Salaeh, A. 2016. Production of polyunsaturated fatty acids in the fern *Pteris ensiformis* suspension culture. Asian Journal of Pharmaceutical Sciences 11(1): 156-157.
291. Kajihara, K., Yamaura, Y., Soga, M., Furukawa, Y., Morimoto, J. & Nakamura, F. 2016. Urban shade as a cryptic habitat: fern distribution in building gaps in Sapporo, northern Japan. Urban Ecosystems 19(1): 523-534.
292. Kakishima, M., Ji, J. X., Wang, Q. & Li, Y. 2016. First report of rust disease caused by *Milesina dryopteridis* on two species of ferns, *Rumohra adiantiformis* and *Pteris fauriei*, in Japan. Plant Disease 100(12): 2529-2529.
293. Kale, M. 2016. GC-MS analysis of the pteridophyte *Thelypteris dentata* (Forssk.) E. St. John from northern Western Ghats. Indian Fern Journal 33(1-2): 188-192.

294. Kalita, S., Kandimalla, R., Sharma, K. K., Kataki, A. C., Deka, M. & Kotoky, J. 2016. Amoxicillin functionalized gold nanoparticles reverts MRSA resistance. Materials Science and Engineering C 61: 720-727.[*Adiantum philippense*]
295. Karger, D. N., Kluge, J. & Kessler, M. 2016. Comparing species richness patterns of epiphytic and terrestrial ferns along elevational and latitudinal gradients. In: Zotz, G. Plants on Plants – The Biology of Vascular Epiphytes. Springer, Berlin, pp. 53-54.
296. Kavitha, C. H. & Murugan, K. 2016. Fourier transform infrared fingerprint of desiccated fronds of forked fern-*Dicranopteris linearis* (Burm. f.) Underw.: Some observations. Phytomorphology: An International Journal of Plant Morphology 66(1-2): 13-20.
297. Kavitha, C. H. & Murugan, K. 2016. Photochemical efficacy analysis using chlorophyll fluorescence of *Dicranopteris linearis* in response to desiccation and rehydration stress. Bioscience Biotechnology Research Communications 9(3): 439-444.
298. Kawakami, S. M., Kawakami, S., Damdinsuren, O., Kato, J., Smirnov, S. V. & Kondo, K. 2016. Decaploid gametophyte formation from spores of a pentaploid *Cystopteris fragilis* (Cystopteridaceae) collected in Mongolian Altai. The Fern Gazette 20(4): 149-155.
299. Ke, L. L., Yu, T. T., Lin, B., Liu, B. D., Zhang, S. & Deng, C. 2016. From a 3D hollow hexahedron to 2D hierarchical nanosheets: controllable synthesis of biochemistry-enabled NaV3(P2O7)(4)/C composites for high-potential and long-life sodium ion batteries. Nanoscale 8(45): 19120-19128.[spores]
300. Kear, B. P., Lindgren, J., Hurum, J. H., Milan, J. & Vajda, V. 2016. An introduction to the Mesozoic biotas of Scandinavia and its Arctic territories, In: Kear, B. P., Lindgren, J., Hurum, J. H., Milan, J. & Vajda, V. (ed.). Mesozoic biotas of Scandinavia and its Arctic territories. Geological Society: Bath, pp. 1-14.
301. Keighery, G. 2016. Status of the fern *Histiopteris incisa* (Dennstaedtiaceae) in southern Western Australia. Nuytsia 27: 243-244.
302. Kessler, M., Karger, D. N. & Kluge, J. 2016. Elevational diversity patterns as an example for evolutionary and ecological dynamics in ferns and lycophytes. Journal of Systematics and Evolution 54(6): 617-625.
303. Khanalipour, M., Otaghvari, A. M. & Kazemitabar, S. K. 2016. Biosystematics investigation of the fern (genus *Asplenium*) in Hyrcanian forests of north of Iran using ISSR molecular marker. Plant Cell Biotechnology and Molecular Biology 17(7-8): 404-414.
304. Khine, P. K., Lindsay, S., Fraser-Jenkins, C., Kluge, J., Kyaw, M. & Hovenkamp, P. 2016. *Selliguea kachinensis* (Polypodiaceae), a new fern species of uncertain affinity from Northern Myanmar. Phytokeys 62: 73-81.[new species]
305. Khullar, S. P. & Verma, S. 2016. The genus *Osmunda* and the oddities in W. Himalayan *Osmunda claytoniana* L. and the existence of *O. regalis* in India still remains an unsolved mystery! - a discussion. Indian Fern Journal 33(1-2): 142-163.
306. Kim, J. H. & Lu, T. M. 2016. Bio-inspired Janus composite nanoscrolls for on-demand tumour targeting. RSC Advances 6(21): 17179-17187.[biomimetism]
307. Klepsch, M., Lange, A., Angeles, G., Mehltreter, K. & Jansen, S. 2016. The hydraulic architecture of petioles and leaves in tropical fern species under different levels of canopy openness. International Journal of Plant Sciences 177(2): 209-216.

308. Klymiuk, A. A. 2016. Paleomycology of the Princeton Chert. III. Dictyosporic microfungi, *Monodictysporites princetonensis* gen. et sp. nov., associated with decayed rhizomes of an Eocene semi-aquatic fern. *Mycologia* 108(5): 882-890.
309. Knie, N., Grawe, F. & Knoop, V. 2016. Monilophyte mitochondrial rps1 genes carry a unique group II intron that likely originated from an ancient paralog in rpl2. *RNA* 22(9): 1338-1348.
310. Knie, N., Grawe, F., Fischer, S. & Knoop, V. 2016. Reverse U-to-C editing exceeds C-to-U RNA editing in some ferns - a monilophyte-wide comparison of chloroplast and mitochondrial RNA editing suggests independent evolution of the two processes in both organelles. *Bmc Evolutionary Biology* 16: e134.
311. Knight, J. A. & Sardina, L. J. 2016. An emended and amplified description of *Pecopteris apicalis* Knight, a fern morphospecies of Mid-Stephanian age from NW Spain. *Spanish Journal of Paleontology* 31(1): 95-114.
312. Kodym, A., Lang, M. & Delpratt, J. 2016. Propagation by partial tissue culture of Austral bracken (*Pteridium esculentum*) for revegetation. *Ecological Management & Restoration* 17(2): 159-163.
313. Kollah, B., Patra, A. K. & Mohanty, S. R. 2016. Aquatic microphylla *Azolla*: a perspective paradigm for sustainable agriculture, environment and global climate change. *Environmental Science and Pollution Research* 23(5): 4358-4369.
314. Kong, D. L., Wang, J. J., Kardol, P., Wu, H. F., Zeng, H., Deng, X. B. & Deng, Y. 2016. Economic strategies of plant absorptive roots vary with root diameter. *Biogeosciences* 13(2): 415-424. [*Dicranopteris dichotoma*]
315. Kong, S. G. & Okajima, K. 2016. Diverse photoreceptors and light responses in plants. *Journal of Plant Research* 129(2): 111-114. [*Adiantum capillus-veneris*]
316. Kong, S. G. & Wada, M. 2016. Molecular basis of chloroplast photorelocation movement. *Journal of Plant Research* 129(2): 159-166. [*Adiantum*]
317. Kooh, M. R. R., Lim, L. B. L., Lim, L. H. & Bandara, J. 2016. Batch adsorption studies on the removal of malachite green from water by chemically modified *Azolla pinnata*. *Desalination and Water Treatment* 57(31): 14632-14646.
318. Korasidis, V. A., Wallace, M. W., Wagstaff, B. E., Holdgate, G. R., Tosolini, A. M. P. & Jansen, B. 2016. Cyclic floral succession and fire in a Cenozoic wetland/peatland system. *Palaeogeography Palaeoclimatology Palaeoecology* 461: 237-252.
319. Kormin, F., Khan, M. & Iwansyah, A. C. 2016. Microwave assisted extraction; phytochemical evaluation of Malaysian palm oil trunk epiphytes ferns. *International Journal of Pharmacy and Pharmaceutical Sciences* 8(4): 174-180.
320. Kosesakal, T., Unal, M., Kulen, O., Memon, A. & Yuksel, B. 2016. Phytoremediation of petroleum hydrocarbons by using a freshwater fern species *Azolla filiculoides* Lam. *International Journal of Phytoremediation* 18(5): 467-476.
321. Kreutz, C., Athayde, F. D. & Sanchez, M. 2016. Spatial and seasonal variation in the species richness and abundance of ferns and lycophytes in gallery forests of Cerrado in Central Brazil. *Brazilian Journal of Botany* 39(1): 315-326.
322. Krippel, Y. & Colling, G. 2016. Floristic notes. Observations made in Luxembourg (2004-2005). *Bull. Soc. Nat. Luxemb.* 118: 27-51. [French]
323. Kristanc, L. & Kreft, S. 2016. European medicinal and edible plants associated with subacute and chronic toxicity part I: Plants with carcinogenic, teratogenic and endocrine-disrupting effects. *Food and Chemical Toxicology* 92: 150-164. [*Pteridium*]

324. Kumar, V., Bhandawat, A., Sharma, H., Nag, A. & Sharma, R. K. 2016. Novel microsatellite markers identification and diversity characterization in *Pteris cretica* L. Journal of Plant Biochemistry and Biotechnology 25(1): 104-110.
325. Kumari, A., Lal, B. & Rai, U. N. 2016. Assessment of native plant species for phytoremediation of heavy metals growing in the vicinity of NTPC sites, Kahalgaon, India. International Journal of Phytoremediation 18(6): 592-597.
326. Kuo, L. Y., Chang, Y. H., Glowienka, J. M. O., Amoroso, V. B., Dong, S. Y., Kao, T. T., Wang, C. N. & Chiou, W. L. 2016. A revised framework of *Dryopteris* subg. *Nothoperanema* (Dryopteridaceae) inferred from phylogenetic evidence, with descriptions of two new sections. Systematic Botany 41(3): 596-605.
327. Kuo, L. Y., Ebihara, A., Shinohara, W., Rouhan, G., Wood, K. R., Wang, C. N. & Chiou, W. L. 2016. Historical biogeography of the fern genus *Deparia* (Athyriaceae) and its relation with polyploidy. Molecular Phylogenetics and Evolution 104: 123-134.
328. Kustatscher, E., Scanu, G. G., Kvacek, J. & van Konijnenburg-van Cittert, J. H. A. 2016. The Krasser collection in the Faculty of Sciences, Charles University, Prague and new insights into the middle Jurassic flora of Sardinia. Fossil Imprint 72(3-4): 140-154.
329. Kvacek, J. & Vodrazka, R. 2016. Late Cretaceous flora of the Hidden Lake Formation, James Ross Island (Antarctica), its biostratigraphy and palaeoecological implications. Cretaceous Research 58: 183-201.
330. Kvacek, Z. & Martinetto, E. 2016. Foliage accumulations of *Osmunda lignitum* (Osmundaceae) in the Oligocene of Northern Italy and Western Germany. Fossil Imprint 72(3-4): 131-139.
331. Labandeira, C. C., Kustatscher, E. & Wappler, T. 2016. Floral assemblages and patterns of insect herbivory during the Permian to Triassic of northeastern Italy. Plos One 11(11): e0165205.
332. Labiak, P. H. & Pereira, J. B. S. 2016. A new species of *Ceradenia* (Polypodiaceae) from Southern Brazil. Systematic Botany 41(4): 902-905.[*Ceradenia maackii*]
333. Lahiri, I., Gurung, C., Bhandari, J. B. & Hegde, S. 2016. Morpho-anatomical and biochemical characterization of *Davallia griffithiana* Hook. Indian Fern Journal 33(1-2): 212-221.
334. Lai, J. C. Y., Lai, H. Y., Rao, N. K. & Ng, S. F. 2016. Treatment for diabetic ulcer wounds using a fern tannin optimized hydrogel formulation with antibacterial and antioxidative properties. Journal of Ethnopharmacology 189: 277-289.
335. Landi, M., Zoccola, A., Gonnelli, V., Lastrucci, L., Saveri, C., Quilghini, G., Bottacci, A. & Angiolini, C. 2016. Effect of grazing on the population of *Matteuccia struthiopteris* at the southern limit of its distribution in Europe. Plant Species Biology 31(1): 3-10.
336. Lane, T. S., Rempe, C. S., Davitt, J., Staton, M. E., Peng, Y. H., Soltis, D. E., Melkonian, M., Deyholos, M., Leebens-Mack, J. H., Chase, M., Rothfels, C. J., Stevenson, D., Graham, S. W., Yu, J., Liu, T., Pires, J. C., Edger, P. P., Zhang, Y., Xie, Y. L., Zhu, Y., Carpenter, E., Wong, G. K. S. & Stewart, C. N. 2016. Diversity of ABC transporter genes across the plant kingdom and their potential utility in biotechnology. BMC Biotechnology 16: e47.
337. Law, B., Brassil, T. & Gonsalves, L. 2016. Recent decline of an endangered, endemic rodent: does exclusion of disturbance play a role for Hastings River mouse (*Pseudomys oralis*)? Wildlife Research 43(6): 482-491.[habitat]
338. Le Pechon, T., He, H., Zhang, L., Zhou, X. M., Gao, X. F. & Zhang, L. B. 2016. Using a multilocus phylogeny to test morphology-based classifications of *Polystichum* (Dryopteridaceae), one of the largest fern genera. BMC Evolutionary Biology 16: e55.

339. Le Pechon, T., Zhang, L., He, H., Zhou, X. M., Bytebier, B., Gao, X. F. & Zhang, L. B. 2016. A well-sampled phylogenetic analysis of the polystichoid ferns (Dryopteridaceae) suggests a complex biogeographical history involving both boreotropical migrations and recent transoceanic dispersals. *Molecular Phylogenetics and Evolution* 98: 324-336.
340. Leal-Alvarado, D. A., Espadas-Gil, F., Saenz-Carbonell, L., Talavera-May, C. & Santamaria, J. M. 2016. Lead accumulation reduces photosynthesis in the lead hyper-accumulator *Salvinia minima* Baker by affecting the cell membrane and inducing stomatal closure. *Aquatic Toxicology* 171: 37-47.
341. Lee, D. E., Lee, W. G., Jordan, G. J. & Barreda, V. D. 2016. The Cenozoic history of New Zealand temperate rainforests: comparisons with southern Australia and South America. *New Zealand Journal of Botany* 54(2): 100-127.
342. Lehnhert, M. & Kessler, M. 2016. Mycorrhizal relationships in lycophytes and ferns. *The Fern Gazette* 20(3): 101-116.
343. Lehnhert, M. & Tejedor, A. 2016. Three new scaly tree fern species (*Cyathea*-*Cyatheaceae*) from the Amotape-Huancabamba Zone and their biogeographic context. *American Fern Journal* 106(3): 175-190.[*Cyathea abrapatriciana*, *C. chimaera*, *C. oreopteroides*, new species]
344. Lehnhert, M. 2016. *Alsophila weidenbrueckii* (*Cyatheaceae*), a new scaly tree fern from Papua New Guinea. *Blumea* 61(1): 20-23.[new species]
345. Lehnhert, M. 2016. A synopsis of the exindusiate species of *Cyathea* (*Cyatheaceae-Polypodiopsida*) with bipinnate-pinnatifid or more complex fronds, with a revision of the *C. lasiosora* complex. *Phytotaxa* 243(1): 1-53.
346. León, B. 2016. Proposal to conserve *Campyloneurum densifolium* against *Polypodium ccallahualla* (*P. calaguala*) (*Polypodiaceae*). *Taxon* 65(6): 1424-1425.
347. Li, C. X., Lu, S. G., Ma, J. Y., Gai, Y. H. & Yang, Q. 2016. Phylogeographic history of the woodwardioid ferns, including species from the Himalayas. *Palaeoworld* 25(2): 318-324.
348. Li, C. X., Patel, N. R. & Zhang, L. B. 2016. *Polystichum clarinervium* (subg. *Haplopolystichum*; Dryopteridaceae), a new fern from Emei shan, China. *Phytotaxa* 280(3): 271-277.[new species]
349. Li, F. W. & Mathews, S. 2016. Evolutionary aspects of plant photoreceptors. *Journal of Plant Research* 129(2): 115-122.
350. Li, F. W., Kuo, L. Y., Chang, Y. H., Hsu, T. C., Hung, H. C., Chiou, W. L., Rothfels, C. J. & Huang, Y. M. 2016. *Asplenium pifongiae* (Aspleniaceae: Polypodiales), a new species from Taiwan. *Systematic Botany* 41(1): 24-31.
351. Li, F. W., Kuo, L. Y., Pryer, K. M. & Rothfels, C. J. 2016. Genes translocated into the plastid inverted repeat show decelerated substitution rates and elevated GC content. *Genome Biology and Evolution* 8(8): 2452-2458.
352. Li, J., He, S. Y. & Qin, X. D. 2016. Allelopathic potential and volatile compounds of *Manihot esculenta* Crantz against weeds. *Allelopathy Journal* 37(2): 195-206.[*Lygodium microphyllum*]
353. Li, K., Gu, Y. & Liu, H. 2016. Holocene climate changes derived from spore-pollen records and neolithic culture succession in northern Henan plain. *Journal of Jilin University (Earth Science Edition)* 46(5): 1449-1457.
354. Li, L. Q. & Wang, Y. D. 2016. Late Triassic palynofloras in the Sichuan Basin, South China: Synthesis and perspective. *Palaeoworld* 25(2): 212-238.

355. Li, L. Q., Wang, Y. D., Liu, Z. S., Zhou, N. & Wang, Y. 2016. Late Triassic palaeoclimate and palaeoecosystem variations inferred by palynological record in the northeastern Sichuan Basin, China. *Palaeontologische Zeitschrift* 90(2): 327-348.
356. Li, N., Li, Y. Y., Zheng, C. C., Huang, J. G. & Zhang, S. Z. 2016. Genome-wide comparative analysis of the codon usage patterns in plants. *Genes & Genomics* 38(8): 723-731.
357. Li, Q., Yang, X., Wang, H., Wang, H. & He, S. 2016. Endogenous trans-zeatin content in plants with different metal-accumulating ability: a field survey. *Environmental Science and Pollution Research* 23(23): 23422-23435.[*Pteris vittata*]
358. Li, S. S., Chen, L. L., Wang, H. M., Hu, B. Z. & Chang, Y. 2016. Analysis on codon using features and expression prediction of 4CL gene in *Dryopteris fragrans*. *Chinese Traditional and Herbal Drugs* 47(10): 1753-1761.
359. Liao, X. Y., Ma, X., Yan, X. L., Lin, L. Y., Shi, P. L. & Wu, Z. Y. 2016. Transportation and localization of phenanthrene and its interaction with different species of arsenic in *Pteris vittata* L. *Chemosphere* 153: 307-314.
360. Link-Perez, M. A., Ludwig, T. G., Ledford, C. J., Seabolt, M. H. & Sessa, E. B. 2016. Lectotypification of *Adiantopsis alata* (Pteridaceae) and descriptions of new palmate species in the Guiana shield. *Systematic Botany* 41(4): 906-918.[*Adiantopsis aurea*, *A. hickeyi*, *A. scalariformis*, new species]
361. Liu, B., Guo, Z. Y., Bussmann, R., Li, F. F., Li, J. Q., Hong, L. Y. & Long, C. L. 2016. Ethnobotanical approaches of traditional medicine studies in Southwest China: a literature review. *Journal of Ethnopharmacology* 186: 343-350.
362. Liu, D. M., Sheng, J. W., Wang, S. H., Zhang, W. F., Zhang, W. & Zhang, D. J. 2016. Cytoproliferative and cytoprotective effects of striatisporolide A isolated from rhizomes of *Athyrium multidentatum* (Doell.) Ching on human umbilical vein endothelial cells. *Molecules* 21(10): e1280.
363. Liu, H. M., Zhang, S. Z., Wan, T., Kamau, P. W., Wang, Z. W., Grall, A., Hemp, A. & Schneider, H. 2016. Exploring the pteridophyte flora of the Eastern Afromontane biodiversity hotspot. *Journal of Systematics and Evolution* 54(6): 691-705.
364. Liu, H. M., Zhang, X. C., Wang, M. P., Shang, H., Zhou, S. L., Yan, Y. H., Wei, X. P., Xu, W. B. & Schneider, H. 2016. Phylogenetic placement of the enigmatic fern genus *Trichoneuron* informs on the infra-familial relationship of Drypteridaceae. *Plant Systematics and Evolution* 302(3): 319-332.
365. Liu, H. M. 2016. Embracing the pteridophyte classification of Ren-Chang Ching using a generic phylogeny of Chinese ferns and lycophytes. *Journal of Systematics and Evolution* 54(4): 307-335.
366. Liu, L. T., Wen, Q., Huang, X. C. & Liu, Q. J. 2016. *De novo* sequencing and characterization of juvenile sporophyte transcriptome of a fern, *Dicranopteris dichotoma*. *Forest Research* 29(4): 500-507.
367. Liu, X., Fu, J. W., Guan, D. X., Cao, Y., Luo, J., Rathinasabapathi, B., Chen, Y. S. & Ma, L. Q. 2016. Arsenic induced phytate exudation, and promoted FeAsO₄ dissolution and plant growth in As-hyperaccumulator *Pteris vittata*. *Environmental Science & Technology* 50(17): 9070-9077.
368. Liu, Y., Sun, Q. L., Fan, D. D., Lai, X. H., Xu, L. C., Finlayson, B. & Chen, Z. Y. 2016. Pollen evidence to interpret the history of rice farming at the Hemudu site on the Ningshao coast, eastern China. *Quaternary International* 426: 195-203.[spores]

369. Llorens, C., Argentina, M., Rojas, N., Westbrook, J., Dumais, J. & Noblin, X. 2016. The fern cavitation catapult: mechanism and design principles. *Journal of the Royal Society Interface* 13(114): e20150930.[biomechanics, spore dispersal]
370. Locatelli, E. R., Krajewski, L., Chochinov, A. V. & Laflamme, M. 2016. Taphonomic variance between Marattialean ferns and Medullosan seed ferns in the Carboniferous Mazon Creek Lagerstatte, Illinois, USA. *Palaios* 31(3): 97-110.
371. Loek, L. H. 2016. Ferns in the Lickebaert. *Gorteria* 38(1): 3-12.
372. Long, H., Li, J., Li, Y. Y., Xie, D. Y., Peng, Q. Z. & Li, L. 2016. Ontogenetic characterization of sporangium and spore of *Huperzia serrata*: an anti-aging disease fern. *Botanical Studies* 57: e36.
373. Lopez, R. A. & Renzaglia, K. S. 2016. Arabinogalactan proteins and arabinan pectins abound in the specialized matrices surrounding female gametes of the fern *Ceratopteris richardii*. *Planta* 243(4): 947-957.
374. Lopez-Romero, J. M., Riano, K. & Briones, O. 2016. Germination and sporophyte frequency of two sympatric species of *Blechnum* (Blechnaceae). *Acta Botanica Mexicana* 117: 47-58.
375. Lopez-Tirado, J. 2016. First record of the American native fern *Thelypteris kunthii* (Desv.) C. V. Morton from Europe. *American Fern Journal* 106(4): 269-270.
376. Lu, H. Z., Song, L., Liu, W. Y., Xu, X. L., Hu, Y. H., Shi, X. M., Li, S., Ma, W. Z., Chang, Y. F., Fan, Z. X., Lu, S. G., Wu, Y. & Yu, F. H. 2016. Survival and growth of epiphytic ferns depend on resource sharing. *Frontiers in Plant Science* 7: e416.
377. Lu, N. T., Zhang, L., Nguyen, D. T. & Zhang, L. B. 2016. *Polystichum quangbinhense* sp. nov. (subg. *Haplopolystichum*; Dryopteridaceae), the southernmost cave species of *Polystichum* from central Vietnam. *Phytotaxa* 283(3): 295-299.[new species]
378. Lubaina, A. S., Brijithlal, N. D. & Murugan, K. 2016. Unravelling desiccation and rehydration tolerance mechanism in the fern, *Adiantum latifolium*. *Bioscience Biotechnology Research Communications* 9(4): 672-679.
379. Lubinski, M. & Dorken, V. M. 2016. The hybrid between *Equisetum scirpoides* and *E. variegatum* in Northern Europe. *American Fern Journal* 106(2): 116-130.
380. Luke, D., McLaren, K. & Wilson, B. 2016. Short-term dynamics and the effects of biotic and abiotic factors on plant physiognomic groups in a hurricane-impacted lower montane tropical forest. *Biotropica* 48(3): 332-341.
381. Luna, M. L., Giacosa, J. P. R., Yanez, A. & Giudice, G. E. 2016. Anatomical features of the tubercle and young sporophyte of the annual fern *Anogramma chaerophylla* growing in the Punta Lara Natural Reserve (Buenos Aires, Argentina). *American Fern Journal* 106(4): 231-241.
382. Luna, M. L., Yanez, A., Giacosa, J. P. R., Gorrer, D., Berrueta, P. C. & Giudice, G. E. 2016. *In vitro* spore culture and reproductive aspects of the annual fern *Anogramma chaerophylla* (Pteridaceae). *Boletin de la Sociedad Argentina de Botanica* 51(4): 675-682.
383. Luo, C. X., Lin, G., Chen, M. H., Xiang, R., Zhang, L. L., Liu, J. G., Pan, A. D., Yang, S. X. & Yang, M. X. 2016. Characteristics of pollen in surface sediments from the southern South China Sea and its paleoclimatic significance. *Palaeogeography Palaeoclimatology Palaeoecology* 461: 12-28.
384. Luo, X., Li, C., Luo, P., Lin, X., Ma, H., Seeram, N. P., Song, C., Xu, J. & Gu, Q. 2016. Pterosin sesquiterpenoids from *Pteris cretica* as hypolipidemic agents via activating liver X receptors. *Journal of Natural Products* 79(12): 3014-3021.

385. Luvuno, L. B., Kotze, D. C. & Kirkman, K. P. 2016. Long-term landscape changes in vegetation structure: fire management in the wetlands of Kwambonambi, South Africa. *African Journal of Aquatic Science* 41(3): 279-288.
386. Ma, F. J., Wang, Q. J., Dong, J. L., Wang, H. F., Wang, Z. X., Zhang, F. T. & Sun, B. N. 2016. A new plant assemblage from the Middle Triassic volcanic tuffs of Pingchuan, Gansu, northwestern China and its paleoenvironmental significance. *Palaeontologische Zeitschrift* 90(2): 349-376.
387. Ma, J., Wang, S. J., He, X. Z., He, X. Y. & Ma, S. M. 2016. *Diodonopteris*, a new genus of the Paleozoic leptosporangiate fern family Botryopteridaceae, from the lower Permian of Shanxi Province, North China. *Review of Palaeobotany and Palynology* 234: 11-24.
388. Ma, Z., Huang, Q., Zhuang, C., Huang, J. & Wang, H. 2016. Characteristics of two nest epiphytic ferns in mountain rainforests of Diaoluoshan National Forest Park. *Scientia Silvae Sinicae* 52(12): 22-28.
389. Machado, L. S., Gonzatti, F. & Windisch, P. G. 2016. Epiphytic ferns in swamp forest remnants of the coastal plain of southern Brazil: latitudinal effects on the plant community. *Acta Botanica Brasilica* 30(4): 644-657.
390. Machado, S. A., Oliveira, A. V., Fabrin, T. M. C., Prioli, S. & Prioli, A. J. 2016. Molecular characterization of the species *Salvinia* (Salviniaceae) from the upper Parana River floodplain. *Genetics and Molecular Research* 15(3): e15038575.
391. Maciel, S. 2016. *Nephrolepis* (Lomariopsidaceae - Polypodiopsida) in the Brazilian Amazon. *Rodriguesia* 67(1): 77-84.
392. Madeira, P. T., Facey, J., Pratt, P. D., Maul, D. P. & Wheeler, G. 2016. Are three colonies of *Neostromboceros albicomus*, a candidate biological control agent for *Lygodium microphyllum*, the same host biotype? *Biocontrol Science and Technology* 26(3): 440-445.
393. Madeira, P. T., Hill, M. P., Dray, F. A., Coetzee, J. A., Paterson, I. D. & Tipping, P. W. 2016. Molecular identification of *Azolla* invasions in Africa: the *Azolla* specialist, *Stenopelmus rufinasus* proves to be an excellent taxonomist. *South African Journal of Botany* 105: 299-305.
394. Magill, C. R., Ashley, G. M., Dominguez-Rodrigo, M. & Freeman, K. H. 2016. Dietary options and behavior suggested by plant biomarker evidence in an early human habitat. *Proceedings of the National Academy of Sciences of the United States of America* 113(11): 2874-2879.
395. Maine, M. A., Hadad, H. R., Sánchez, G., Caffaratti, S. & Pedro, M. C. 2016. Kinetics of Cr(III) and Cr(VI) removal from water by two floating macrophytes. *International Journal of Phytoremediation* 18(3): 261-268.[*Salvinia herzogii*]
396. Makowski, D., Tomiczak, K., Rybczynski, J. J. & Mikula, A. 2016. Integration of tissue culture and cryopreservation methods for propagation and conservation of the fern *Osmunda regalis* L. *Acta Physiologiae Plantarum* 38(1): e19.
397. Mali, A. M., Patil, V. B., Pise, N. M. & Ade, A. B. 2016. First report of leaf spot caused by *Fusarium* sp. NFCCI 2882 on *Angiopteris evecta*: a king fern from Western Ghats, India. *Plant Disease* 100(3): 646-646.
398. Mallmann, I. T., Da Silva, V. L. & Schmitt, J. L. 2016. Community structure of ferns in riparian forest: evaluation in anthropization gradient. *Revista Ambiente e Agua* 11(1): 110-124.
399. Marchant, D. B., Soltis, D. E. & Soltis, P. S. 2016. Patterns of abiotic niche shifts in allopolyploids relative to their progenitors. *New Phytologist* 212(3): 708-718.

400. Marsilobo, S. & Krishnakumar, G. 2016. An assessment of heavy metal pollution and accumulation potential of mangrove fern *Acrostichum aureum* L. from South west coast of Karnataka, India. *Pollution Research* 35(4): 773-779.
401. Martinez, O. G., Assis, F. C., Meza Torres, E. I., Cacharani, D. A. & Jaimez, D. G. 2016. The genus *Pecluma* (Polypodiaceae) in Argentina. *Darwiniana* 4(2): 234-251.
402. Martinez, O. G. & Prado, J. 2016. *Pteris* L. In: Anton, A. M. & Zuloaga, F. O. (Org.). *Flora Argentina: Licofitas, Helechos, Gymnospermae*. 1 ed. Córdoba: Instituto Multidisciplinario de Biología Vegetal (CONICET-UNC) v. 2: 321-329. [Spanish]
403. Martinez, O. G. 2016. *Pteris sotae* (Pteridaceae), a new endemic species for the Argentinean flora. *Phytotaxa* 267(4): 291-295. [new species]
404. Martin-Garcia, J., Jactel, H., Oria-de-Rueda, J. A. & Diez, J. J. 2016. The effects of poplar plantations on vascular plant diversity in riparian landscapes. *Forests* 7(3): e50.
405. Martins, S. C. V., McAdam, S. A. M., Deans, R. M., Damatta, F. M. & Brodribb, T. J. 2016. Stomatal dynamics are limited by leaf hydraulics in ferns and conifers: results from simultaneous measurements of liquid and vapour fluxes in leaves. *Plant Cell and Environment* 39(3): 694-705.
406. Massini, J. G., Escapa, I. H., Guido, D. M. & Channing, A. 2016. First glimpse of the silicified hot spring biota from a new Jurassic chert deposit in the Deseado Massif, Patagonia, Argentina. *Ameghiniana* 53(2): 205-230.
407. Mateo, R. G., Broennimann, O., Normand, S., Petitpierre, B., Araujo, M. B., Svenning, J. C., Baselga, A., Fernandez-Gonzalez, F., Gomez-Rubio, V., Munoz, J., Suarez, G. M., Luoto, M., Guisan, A. & Vanderpoorten, A. 2016. The mossy north: an inverse latitudinal diversity gradient in European bryophytes. *Scientific Reports* 6: e25546.
408. Mathewes, R. W., Greenwood, D. R. & Archibald, S. B. 2016. Paleoenvironment of the Quilchena flora, British Columbia, during the early Eocene climatic optimum. *Canadian Journal of Earth Sciences* 53(6): 574-590. [*Azolla*]
409. Matos, F. B. & Moran, R. C. 2016. *Elaphoglossum mickeliorum* (Dryopteridaceae), a new species of *Elaphoglossum* sect. *Polytrichia* from Peru. *Brittonia* 68: 5p.
410. Matowicka, B. 2016. A new locality of *Botrychium multifidum* (Ophioglossaceae) in the Podlasie region (Kurpie Plain). *Fragmenta Floristica et Geobotanica Polonica* 23(1): 162-165.
411. Mazumdar, J. & Arana, M. D. 2016. Typification of the name *Pteris multifida* (Pteridaceae subfamily Pteridoideae). *Phytotaxa* 261(2): 199-200.
412. Mazumdar, J. 2016. Lectotypification of *Acrostichum spicatum* (*Lepisorus spicatus*, Polypodiaceae). *Nordic Journal of Botany* 34(2): 217-218.
413. Mazumdar, J. 2016. Retypification of *Adiantum incisum* (Pteridaceae) and *Pteris interrupta* (Thelypteridaceae). *The Fern Gazette* 20(3): 143-145.
414. Mazumdar, J. 2016. Typifications of five Linnaean fern names based on Osbeck's specimens. *Nordic Journal of Botany* 34(4): 464-469.
415. McAdam, S. A. M., Brodribb, T. J., Banks, J. A., Hedrich, R., Atallah, N. M., Cai, C., Geringer, M. A., Lind, C., Nichols, D. S., Stachowski, K., Geiger, D. & Sussmilch, F. C. 2016. Abscisic acid controlled sex before transpiration in vascular plants. *Proceedings of the National Academy of Sciences of the United States of America* 113(45): 12862-12867.
416. McArthur, A. D., Jolley, D. W., Hartley, A. J., Archer, S. G. & Lawrence, H. M. 2016. Palaeoecology of syn-rift topography: A Late Jurassic footwall island on the Josephine Ridge, Central Graben, North Sea. *Palaeogeography Palaeoclimatology Palaeoecology* 459: 63-75.

417. McLoughlin, S. & Bomfleur, B. 2016. Biotic interactions in an exceptionally well preserved osmundaceous fern rhizome from the Early Jurassic of Sweden. *Palaeogeography Palaeoclimatology Palaeoecology* 464: 86-96.
418. McLoughlin, S. & Strullu-Derrien, C. 2016. Biota and palaeoenvironment of a high middle-latitude Late Triassic peat-forming ecosystem from Hopen, Svalbard archipelago, In: Kear, B. P., Lindgren, J., Hurum, J. H., Milan, J. & Vajda, V. (ed.). Mesozoic biotas of Scandinavia and its Arctic territories. Geological Society: Bath, pp. 87-112.
419. McNair, D. M., Singley, S. B. N. & Alford, M. H. 2016. Checklist of the vascular flora of the Gopher Farm Sandhill, Wayne County, Mississippi. *Castanea* 81(2): 138-147.
420. McPeak, R. H. & Oberbauer, T. A. 2016. *Coenonycha globosa* McClay (Coleoptera: Scarabaeidae) rediscovered in Washington State, with comments on its habitat and host plant associations. *Coleopterists Bulletin* 70(2): 272-273.
421. Medeanic, S., Costa, C. S. B. & Diniz, D. 2016. Modern pollen-vegetation relationships in saltmarsh habitats along a salinity gradient of a fluvial estuary. *Review of Palaeobotany and Palynology* 233: 67-76.
422. Meena, K. & Yadav, B. L. 2016. *Selaginella* P. Beauv. in Sitamata Wildlife Sanctuary of Rajasthan. *Indian Fern Journal* 33(1-2): 175-187.
423. Mendoza-Ruiz, A., Ceja-Romero, J. & Perez-Garcia, B. 2016. Epiphytic ferns and lycophytes of Veracruz, Mexico: species richness and distribution. *Acta Botanica Mexicana* 114: 87-136.
424. Metzgar, J. S. 2016. Clarifying the taxonomy of Alaskan *Asplenium trichomanes* populations. *American Fern Journal* 106(3): 227-229.
425. Metzgar, J., Stamey, M. & Ickert-Bond, S. 2016. Genetic differentiation and polyploid formation within the *Cryptogramma crispa* complex (Polypodiales: Pteridaceae). *Turkish Journal of Botany* 40(3): 231-240.
426. Miao, Y. F., Wu, F. L., Chang, H., Fang, X. M., Deng, T., Sun, J. M. & Jin, C. S. 2016. A late-Eocene palynological record from the Hoh Xil Basin, northern Tibetan Plateau, and its implications for stratigraphic age, paleoclimate and paleoelevation. *Gondwana Research* 31: 241-252.
427. Mifsud, S., Napier, M., Fenech, S. & Cassar, L. F. 2016. Current status of *Asplenium sagittatum* (Aspleniaceae) in the Maltese islands. *Flora Mediterranea* 26: 69-80.
428. Miller, M. F., Kneprath, N. E., Cantrill, D. J., Francis, J. E. & Isbell, J. L. 2016. Highly productive polar forests from the Permian of Antarctica. *Palaeogeography, Palaeoclimatology, Palaeoecology* 441: 292-304.
429. Mingma, R., Tanaka, K., Åcemura, S., Takahashi, Y. & Matsumoto, A. 2016. *Actinorhabdospora filicis* gen. nov., sp. nov., a new member of the family Micromonosporaceae. *International Journal of Systematic and Evolutionary Microbiology* 66(8): 3071-3077.[actinomycetes]
430. Miraj, S. & Farsani, E. A. 2016. Photochromic relocation quality of *Adiantum capillus-veneris* L. *Der Pharmacia Lettre* 8(9): 48-51.
431. Miranda, C. V. & Schwartsburg, P. B. 2016. Aquatic ferns from Vicos (MG, Brazil): Salviniales (Filicopsida; Tracheophyta). *Brazilian Journal of Botany* 39(3): 935-942.
432. Miroshnik, N. V. & Tertychna, O. V. 2016. Dependence of grass cover taxonomic and ecological structure on the anthropogenic impact in forest ecosystems. *Biological Bulletin of Bogdan Chmelnitskiy Melitopol State Pedagogical University* 6(1): 29-40.

433. Mishra, V. K. & Shukla, R. 2016. Aquatic macrophytes for the removal of heavy metals from coal mining effluent, In: Ansari, A. A., Gill, S. S., Gill, R., Lanza, G. R. & Newman, L. (ed.). Phytoremediation: management of environmental contaminants, Volume 3. Springer International Publishing: Cham, pp. 143-156. [*Azolla pinnata*]
434. Misumi, S. Y., Asevedo, L., Avilla, L. S., Barth, O. M. & Barros, M. A. de 2016. Technique of palynomorphs extraction from dental calculi of South American gomphotheres. Anuario do Instituto de Geociencias 39(1): 127-132. [*Lycopodium clavatum*, spores]
435. Mitrovic, D., Dokovic, N., Zivotic, D., Bechtel, A., Sajnovic, A. & Stojanovic, K. 2016. Petrographical and organic geochemical study of the Kovin lignite deposit, Serbia. International Journal of Coal Geology 168: 80-107.
436. Mizuno, T., Takezaki, H., Momohara, A. & Okitsu, S. 2016. Spore-holding capacity of bryophyte colonies influences pteridophyte establishment in a vertical environment. American Fern Journal 106(3): 161-170.
437. Mohammad, R. H., Nur-E-Alam, M., Lahmann, M., Parveen, I., Tizzard, G. J., Coles, S. J., Fowler, M., Drake, A. F., Heyes, D. & Thoss, V. 2016. Isolation and characterisation of 13 pterosins and pterosides from bracken (*Pteridium aquilinum* (L.) Kuhn) rhizome. Phytochemistry 128: 82-94.
438. Mohandas, S. & Somvanshi, R. 2016. Evaluation of toxicopathological effects of *Pteris cretica* in laboratory rats. Vegetos 29(SI): 87-94.
439. Mondal, S. & Sukul, S. 2016. Diversity of pteridophytes in Burbhum district, West Bengal. Indian Fern Journal 33(1-2): 91-106.
440. Moraes Ferreira, R. de, Souza, M. D. P. de, Takase, I. & Araujo Stapelfeldt, D. M. de 2016. Pb(II) adsorption by biomass from chemically modified aquatic macrophytes, *Salvinia* sp. and *Pistia stratiotes*. Water Science and Technology 73(11): 2670-2679.
441. Morais-Braga, M. F. B., Souza, T. M., Santos, K. K. A., Guedes, G. M. M., Andrade, J. C., Tintino, S. R., Sobral-Souza, C. E., Costa, J. G. M., Saraiva, A. A. F. & Coutinho, H. D. M. 2016. Additive effect of *Lygodium venustum* Sw. in association with gentamicin. Natural Product Research 30(16): 1851-1853. [antibiotica]
442. Morales-Arias, J. G., Cuevas-Guzman, R., Rodriguez-Hernandez, J. L., Guzman-Hernandez, L., Nunez-Lopez, N. M., Sanchez-Rodriguez, E. V., Solis-Magallanes, A. & Santana-Michel, F. J. 2016. Vascular flora of Villas de Cacoma, Sierra de Cacoma, Jalisco, Mexico. Botanical Sciences 94(2): 393-418.
443. Moran, R. C. & Labiak, P. H. 2016. Phylogeny and character evolution of the Neotropical fern genus *Stigmatopteris* (Dryopteridaceae). Brittonia 68(4): 476-488.
444. Moran, R. C. 2016a. *Bolbitis occidentalis* (Dryopteridaceae), a new species from the western side of the Andes of Ecuador. Brittonia 68(4): 433-439.
445. Moran, R. C. 2016b. Lycopodiaceae. In: Naczi, R. (ed.) Manual of the Vascular Plants of the Northeastern United States. New York Botanical Garden Press, Bronx, USA. 13p.
446. Moran, R. C. 2016c. Selaginellaceae. In: Naczi, R. (ed.) Manual of the Vascular Plants of the Northeastern United States. New York Botanical Garden Press, Bronx, USA. 4p.
447. Mora-Olivo, A., Mendoza-Ruiz, A. & Martínez-Ávalo, J. G. 2016. *Isoetes tamaulipana* (Isoetaceae), a new species from Mexico. Phytotaxa 267 (2): 113-120.

448. More, S., Paruya, D. K., Tarai, S., Chakraborty, T. & Bera, S. 2016. Depositional environment of Mio-Pliocene Siwalik sedimentary strata from the Darjeeling Himalayan Foothills, India: a palynological approach. *Plos One* 11(3): e0150168.
449. Moreau, J. D., Neraudeau, D., Platel, J. P. & Ravon, A. L. 2016. Fossiliferous flints (marine invertebrates and terrestrial plants) from the Upper Cretaceous of Claix (Charente). *Annales de Paleontologie* 102(2): 103-116.
450. Moreno-Dominguez, R., Cascales-Minana, B., Ferrer, J. & Diez, J. B. 2016. *Acrostichum*, a pioneering fern of floodplain areas from the late Oligocene Sarinena Formation of the Iberian Peninsula. *Plos One* 11(9): e0162334.
451. Morero, R. E., Barrington, D. S., McHenry, M. A., Condack, J. S. & Barboza, G. E. 2016. Typifications and synonymy in *Polystichum* (Dryopteridaceae) from Chile and Argentina. *Phytokeys* 65: 91-105.
452. Morozov, S. Y., Solovyev, A. G. & Troitsky, A. V. 2016. Phylogeny of the plant 4/1 proteins. *Data in Brief* 6: 8-11.
453. Morris, P. H. & Batten, D. J. 2016. Megaspores and associated palynofloras of Middle Jurassic fluvio-deltaic sequences in North Yorkshire and the northern North Sea: a biofacies-based approach to palaeoenvironmental analysis and modelling. *Journal of Micropalaeontology* 35: 151-172.
454. Moteetee, A. & Seleteng Kose, L. 2016. Medicinal plants used in Lesotho for treatment of reproductive and post reproductive problems. *Journal of Ethnopharmacology* 194: 827-849. [*Adiantum capillus-veneris*, *Equisetum ramosissimum*, *Selaginella caffrorum*]
455. Moura, I. O. & Salino, A. 2016a. Flora of the cangas of the Serra dos Carajás, Pará, Brazil: Dryopteridaceae. *Rodriguesia* 67(5): 1151-1157.
456. Moura, I. O. & Salino, A. 2016b. Flora of the cangas of the Serra dos Carajás, Pará, Brazil: Pteridaceae. *Rodriguesia* 67(5): 1167-1175.
457. Moura, I. O., Arruda, A. J. & Salino, A. 2016a. Flora of the cangas of the Serra dos Carajás, Pará, Brazil: Aspleniaceae. *Rodriguesia* 67(5): 1141-1144.
458. Moura, L. C., Arruda, A. J. & Salino, A. 2016b. Flora of the cangas of the Serra dos Carajás, Pará, Brazil: Thelypteridaceae. *Rodriguesia* 67(5): 1181-1189.
459. Mubarak, M., Shaija, A. & Suchithra, T. V. 2016. Optimization of lipid extraction from *Salvinia molesta* for biodiesel production using RSM and its FAME analysis. *Environmental Science and Pollution Research* 23(14): 14047-14055.
460. Mudge, C. R., Perret, A. J. & Winslow, J. R. 2016. Evaluation of foliar herbicide and surfactant combinations for control of giant *Salvinia* at three application timings. *Journal of Aquatic Plant Management* 54: 32-36.
461. Muller, A., Cunha, S., Junges, F. & Schmitt, J. L. 2016. Climate effects on the phenology of *Lindsaea lancea* (L.) Bedd. (Lindaeeaceae) in an Atlantic Forest fragment in southern Brazil. *Interciencia* 41(1): 34-39.
462. Muro, J., van Doninck, J., Tuomisto, H., Higgins, M. A., Moulatlet, G. M. & Ruokolainen, K. 2016. Floristic composition and across-track reflectance gradient in Landsat images over Amazonian forests. *ISPRS Journal of Photogrammetry and Remote Sensing* 119: 361-372.
463. Murray, B. D., Webster, C. R., Jenkins, M. A., Saunders, M. R. & Haulton, G. S. 2016. Ungulate impacts on herbaceous-layer plant communities in even-aged and uneven-aged managed forests. *Ecosphere* 7(6): e01378.

464. Mynssen, C. M., Vasco, A., Moran, R. C., Sylvestre, L. S. & Rouhan, G. 2016. Desmophlebiaceae and *Desmophlebium*: a new family and genus of Eupolypod II ferns. *Taxon* 65(1): 19-34.[new genus]
465. Nakato, N. & Ebihara, A. 2016. Chromosome numbers of 18 ferns in Japan: toward completion of chromosome information in Japanese ferns. *Bulletin of the National Museum of Nature and Science, Series B (Botany)* 42(1): 25-40.
466. Namyatova, A. & Cassis, G. 2016. A remarkable new genus and six new species of fern-inhabiting plant bugs endemic to the Society Islands (Insecta: Heteroptera: Miridae: Mirinae: *Filicicoris* gen. nov.). *Insect Systematics & Evolution* 47(3): 285-312.
467. Namyatova, A. A. & Cassis, G. 2016. Revision and phylogeny of the fern-inhabiting genus *Felisacus* Distant (Insecta: Heteroptera: Miridae: Bryocorinae). *Bulletin of the American Museum of Natural History* 403: 4-168.
468. Nath, K., Bhattacharya, M. K. & Kar, S. 2016. Antibacterial activity of some ethno-botanically important ferns of Southern Assam, India. *Taiwania* 61(3): 260-268.
469. Naugolnykh, S. V. 2016. *Palaeobotrychium* gen. nov., the first discovery of an Ophioglossalean fern from the Middle Carboniferous deposits of Russia. *Wulfenia* 23: 147-161.
470. Naugolnykh, S. V., Wang, L., Han, M. & Jin, J. H. 2016. A new find of the fossil *Cyclosorus* from the Eocene of South China and its paleoclimatic implication. *Journal of Plant Research* 129(1): 3-12.
471. Naya, M., Avila-Nunez, J. L. & Calcagno-Pissarelli, M. P. 2016. Haemolymph defense capacity of the Neotropical sawfly *Aneugmenus merida* against ant predation. *Journal of Insect Behavior* 29(4): 459-472.[*Pteridium aquilinum*, bracken]
472. Negin, B. & Moshelion, M. 2016. The evolution of the role of ABA in the regulation of water-use efficiency: from biochemical mechanisms to stomatal conductance. *Plant Science* 251: 82-89.
473. Nelsen, M. P., Dimichele, W. A., Peters, S. E. & Boyce, C. K. 2016. Delayed fungal evolution did not cause the Paleozoic peak in coal production. *Proceedings of the National Academy of Sciences of the United States of America* 113(9): 2442-2447.[Carboniferous, tree ferns]
474. Neregato, R., D'Apolito, C., Glasspool, I. J., Wang, S. J., Liu, F., Windslow, P., Lu, J., Shao, L. & Hilton, J. 2016. Palynological constraints on the provenance and stratigraphic range of a Lopingian (Late Permian) inter-extinction floral lagerstatte from the Xuanwei Formation, Guizhou Province, China. *International Journal of Coal Geology* 162: 139-150.
475. Nervo, M. H., Coelho, F. V. D., Windisch, P. G. & Overbeck, G. E. 2016. Fern and lycophyte communities at contrasting altitudes in Brazil's subtropical Atlantic Rain Forest. *Folia Geobotanica* 51(4): 305-317.
476. Niazi, N. K., Bashir, S., Bibi, I., Murtaza, B., Shahid, M., Javed, M. T., Shakoor, M. B., Saqib, Z. A., Nawaz, M. F., Aslam, Z., Wang, H. & Murtaza, G. 2016. Phytoremediation of arsenic-contaminated soils using arsenic hyperaccumulating ferns, In: (ed.). *Phytoremediation: Management of environmental contaminants*, volume 3. Springer, Cham: pp. 521-545.
477. Niklas, K. J., Cobb, E. D. & Kutschera, U. 2016. Haeckel's biogenetic law and the land plant phyletic stage. *Bioscience* 66(6): 510-519.
478. Nithya, T. G., Swetha, K., Jayanthi, J. & Ragunathan, M. G. 2016. *In silico* characterisation of proteins of *Salvinia molesta* D.S.Mitchell an aquatic weed and assessment of nanoparticle synthesising ability of closely related plant species. *International Journal of Pharma and Bio Sciences* 7(3): 889-894.

479. Nobrega, G. A., Aidar, M. P. M., Paciencia, M. & Prado, J. 2016. Identification key for lycophytes and ferns from the Picinguaba and Santa Virginia Nuclei, Parque Estadual da Serra do Mar, Ubatuba, SP, Brazil. *Biota Neotropica* 16(4): e20150144.
480. Nopun, P., Traiperm, P., Boonkerd, T. & Jenjittikul, T. 2016. Systematic importance of rhizome stelar anatomy in selected monilophytes from Thailand. *Taiwania* 61(3): 175-184.
481. Nurul Ain, M. B., Nornasuha, Y. & Ismail, B. S. 2016. Allelopathic assessment of selected common weeds in Malaysia C3 - AIP Conference Proceedings, In: Basri, K. H., Noorani, M. S. M., Yaacob, W. Z. W., Yusoff, M. F. M., Karim, N. H. A., Jumali, M. H. H., Ibrahim, N., Mustapha, M. A., Zainuddin, Z., Masseran, N., Nor, M. M., Ibarahim, Z., Rasol, N. H. A., Zain, C. R. C. M., Joe, L. S., Ibrahim, K., Ahmad, N., Daud, N. M. & Dzul-Kifli, S. C. (ed.). American Institute of Physics Inc.: pp. e060039. [*Lygodium flexuosum*, *Nephrolepis biserrata*]
482. Obeidy, C., Bravin, M. N., Bouchardon, J. L., Conord, C., Moutte, J., Guy, B. & Faure, O. 2016. Plants increase arsenic in solution but decrease the non-specifically bound fraction in the rhizosphere of an alkaline, naturally rich soil. *Ecotoxicology and Environmental Safety* 126: 23-29. [*Pteris vittata*]
483. O'Driscoll, C., Ramwell, C., Harhen, B., Morrison, L., Clauson-Kaas, F., Hansen, H. C. B., Campbell, G., Sheahan, J., Misstear, B. & Xiao, L. W. 2016. Ptaquiloside in Irish bracken ferns and receiving waters, with implications for land managers. *Molecules* 21(5): e543.
484. Ogura-Tsujita, Y., Hirayama, Y., Sakoda, A., Suzuki, A., Ebihara, A., Morita, N. & Imaichi, R. 2016. Arbuscular mycorrhizal colonization in field-collected terrestrial cordate gametophytes of pre-polypod leptosporangiate ferns (Osmundaceae, Gleicheniaceae, Plagiogyriaceae, Cyatheaceae). *Mycorrhiza* 26(2): 87-97.
485. Olayiwola, M. A. & Bamford, M. K. 2016. Petroleum of the deep: Palynological proxies for palaeoenvironment of deep offshore upper Miocene-Pliocene sediments from Niger Delta, Nigeria. *Palaeontologia Africana* 50: 31-47.
486. Olivares, E., Herrera, F., Aguiar, G., Pena, E., Ramos, M. & Mendez, C. 2016. Comparison of the mineral nutrition of the ferns *Cyathea aurea*, *C. delgadii*, *Dicranopteris flexuosa* and *Pteridium arachnoideum* in la Gran Sabana, Venezuela. *Interciencia* 41(4): 273-283.
487. Oliveira, L. M. de, Gress, J., De, J., Rathinasabapathi, B., Marchi, G., Chen, Y. & Ma, L. Q. 2016. Sulfate and chromate increased each other's uptake and translocation in As-hyperaccumulator *Pteris vittata*. *Chemosphere* 147: 36-43.
488. Oliveira, V. B., Zuchetto, M., Oliveira, C. F., Paula, C. S., Duarte, A. F. S., Miguel, M. D. & Miguel, O. G. 2016. Effect of different extraction techniques on the yield, antioxidant activity, total dosages, and profile by HPLC-DAD of *Dicksonia sellowiana* (Presl.). Hook., Dicksoniaceae. *Revista Brasileira de Plantas Medicinais* 18(1): 230-239.
489. Oliveros-Bastidas, A., Calcagno-Pissarelli, M. P., Naya, M., Avila-Nunez, J. L. & Alonso-Amelot, M. E. 2016. Human gastric cancer, *Helicobacter pylori* and bracken carcinogens: a connecting hypothesis. *Medical Hypotheses* 88: 91-99.
490. Oliwa, J., Kornas, A. & Skoczowski, A. 2016. Morphogenesis of sporotrophophyll leaves in *Platycerium bifurcatum* depends on the red/far-red ratio in the light spectrum. *Acta Physiologae Plantarum* 38(10): e247.
491. Oplustil, S., Psenicka, J., Simunek, Z. & Libertín, M. 2016. Floras of clastic and peat-forming Pennsylvanian wetlands: Are they different? A case study from the Upper Radnice coal (Late

- Duckmantian), Kladno Coalfield, Czech Republic. Spanish Journal of Paleontology 31(1): 145-180.
492. Oralls, D. G., Osborn, A. R. & Tessier, J. T. 2016. Potential influence of Salamanders and coarse woody debris on the distribution of *Dryopteris intermedia* in a Hardwood Forest. Northeastern Naturalist 23(1): 151-162.
493. Oyston, J. W., Hughes, M., Gerber, S. & Wills, M. A. 2016. Why should we investigate the morphological disparity of plant clades? Annals of Botany 117(5): 859-879.
494. Pabon-Mora, N. & Gonzalez, F. 2016. *Nephopteris* out of the clouds: molecular evidence places the enigmatic *N. maxonii* (Pteridaceae) within the *Jamesonia* clade. Brittonia 68(1): 83-92.
495. Palacios-Rios, M., Arana, M. D. & Marquez, G. 2016. Revision of monotypic genus *Llavea* (Cryptogrammoideae: Pteridaceae). Anales del Jardin Botanico de Madrid 73(2): e044.
496. Pallag, A., Jurca, T., Pasca, B., Sirbu, V., Honiges, A. & Costuleanu, M. 2016. Analysis of phenolic compounds composition by HPLC and assessment of antioxidant capacity in *Equisetum arvense* L. extracts. Revista de Chimie 67(8): 1623-1627.
497. Pallos, J., Araujo Goes-Neto, L. A., Costa, J. M., Souza, F. S. de & Pietrobom, M. R. 2016. Lycophytes and ferns of Serra do Itauajuri, municipality of Monte Alegre, Pará, Brazil. Rodriguesia 67(4): 997-1009.
498. Panneerselvam, C., Murugan, K., Roni, M., Aziz, A., Suresh, U., Rajaganesh, R., Madhiyazhagan, P., Subramaniam, J., Dinesh, D., Nicoletti, M., Higuchi, A., Alarfaj, A. A., Munusamy, M. A., Kumar, S., Desneux, N. & Benelli, G. 2016. Fern-synthesized nanoparticles in the fight against malaria: LC/MS analysis of *Pteridium aquilinum* leaf extract and biosynthesis of silver nanoparticles with high mosquitocidal and antiplasmodial activity. Parasitology Research 115(3): 997-1013.
499. Parrado, C., Mascaraque, M., Gilaberte, Y., Juarranz, A. & Gonzalez, S. 2016. Fernblock (*Polypodium leucotomos* extract): molecular mechanisms and pleiotropic effects in light-related skin conditions, photoaging and skin cancers, a review. International Journal of Molecular Sciences 17(7): e1026. [Phlebodium aureum, sunblock]
500. Parris, B. S. 2016. Botany of some of the islands in the eastern Bay of Islands, northern New Zealand a 2nd update. Auckland Botanical Society Journal 70: 155-178.
501. Parris, B. S. 2016. Two new combinations in grammitid ferns (Polypodiaceae): *Prosaptia hornei* and *Radiogrammitis setulifera*. The Fern Gazette 20(4): 163-164.
502. Parris, B. S. 2016. Two updates for grammitid ferns (Polypodiaceae) on the 'Ferns of Thailand' website. The Fern Gazette 20(4): 156.
503. Patel, R. N. K., Patel, S. K. & Rajput, K. S. 2016. Reporting *Adiantum capillus-veneris* L. and *Thelypteris prolifera* (Retz.) C. F. Reed as new record for Gujarat state together with molecular identity. Indian Fern Journal 33(1-2): 69-80.
504. Paterson, N. W., Mangerud, G., Cetean, C. G., Mork, A., Lord, G. S., Klausen, T. G. & Morkved, P. T. 2016. A multidisciplinary biofacies characterisation of the late Triassic (late Carnian-Rhaetian) Kapp Toscana Group on Hopen, Arctic Norway. Palaeogeography Palaeoclimatology Palaeoecology 464: 16-42.
505. Pattemore, G. A. 2016. Megaflora of the Australian Triassic-Jurassic: A taxonomic revision. Acta Palaeobotanica 56: 121-182.
506. Paul, A. 2016. Anthony Clive Jermy (1932-2014). American Fern Journal 106(2): 147-151.

507. Peeters, E. T. H. M., Neefjes, R. E. M. & van Zuidam, B. G. 2016. Competition between free-floating plants is strongly driven by previously experienced phosphorus concentrations in the water column. *Plos One* 11(9): e0162780.[*Azolla filiculoides*]
508. Pereira, A. L. & Carrapico, F. 2016. An extra sheath around the heterocysts of *Anabaena azollae* from the aquatic macrophyte *Azolla filiculoides* Lamarck. *Botany Letters* 163(4): 449-451.
509. Pérez Carro, F. J. & Fernández Areces, M. P. 2016. Two new hybrid from *Dryopteris guanchica*: *D. × cantabrica* and *D. × ronald-vianensis*. *Flora Montiberica* 63: 64-81.
510. Perez-de La Fuente, R., Delclos, X., Penalver, E. & Engel, M. S. 2016. A defensive behavior and plant-insect interaction in Early Cretaceous amber - The case of the immature lacewing *Hallucinochrysa diogenesi*. *Arthropod Structure & Development* 45(2): 133-139.
511. Perez-Garcia, O. & Castillo, R. F. del. 2016. The decline of the itinerant milpa and the maintenance of traditional agrobiodiversity: crops and weeds coexistence in a tropical cloud forest area in Oaxaca, Mexico. *Agriculture Ecosystems & Environment* 228: 30-37.[indicator species, *Pteridium*]
512. Perrie, L. R. & Brownsey, P. J. 2016. *Asplenium lepidotum*, a new fern species from New Zealand allied to *Asplenium oblongifolium* and *Asplenium obtusatum*. *New Zealand Journal of Botany* 54(3): 377-391.[new species]
513. Perrie, L. R., Shepherd, L. D., Brownsey, P. J., Larrain, J., Shaw, B., Thouvenot, L. & Konrat, M. von. 2016. Rediscovery and reinstatement of the New Caledonian endemic filmy fern *Hymenophyllum pumilio* Rosenst. *New Zealand Journal of Botany* 54(1): 1-10.
514. Peterffy, O., Calner, M. & Vajda, V. 2016. Early Jurassic microbial mats-A potential response to reduced biotic activity in the aftermath of the end-Triassic mass extinction event. *Palaeogeography Palaeoclimatology Palaeoecology* 464: 76-85.
515. Petter, G., Wagner, K., Wanek, W., Delgado, E. J. S., Zott, G., Cabral, J. S. & Kreft, H. 2016. Functional leaf traits of vascular epiphytes: vertical trends within the forest, intra- and interspecific trait variability, and taxonomic signals. *Functional Ecology* 30(2): 188-198.
516. Piirainen, M., Salo, P., Skyten, R. & Velmala, S. 2016. Accessions to the Botanical Museum of the Finnish Museum of Natural History, University of Helsinki, in 2015. *Memoranda Societatis pro Fauna et Flora Fennica* 92: 152-155.
517. Pimsuwan, S., Hongthong, P., Krangpanich, P. & Suwanpinta, C. 2016. The effect of fertilizer on growth of staghorn fern at seedling stage. *International Journal of GEOMATE* 11(6): 2879-2882.[*Platycerium coronarium*]
518. Pincheira-Ulbrich, J., Hernandez, C. E., Saldana, A., Pena-Cortes, F. & Aguilera-Benavente, F. 2016. Assessing the completeness of inventories of vascular epiphytes and climbing plants in Chilean swamp forest remnants. *New Zealand Journal of Botany* 54(4): 458-474.[*Hymenophyllaceae*]
519. Pinson, J. B. & Schuettpelz, E. 2016. Unraveling the origin of the Appalachian gametophyte, *Vittaria appalachiana*. *American Journal of Botany* 103(4): 668-676.
520. Playford, G. 2016. Mississippian palynoflora from the northern Perth Basin, Western Australia: systematics and stratigraphical and palaeogeographical significance. *Journal of Systematic Palaeontology* 14(9): 731-770.
521. Poliakova, A. & Behling, H. 2016. Pollen and fern spores recorded in recent and late Holocene marine sediments from the Indian Ocean and Java Sea in Indonesia. *Quaternary International* 392: 251-314.

522. Ponce, M. & Scataglini, A. 2016. Do two South American species of *Cheilanthes* (Pteridaceae) traditionally linked to the *Cheilanthes marginata* group, belong to *Gaga*? *Phytotaxa* 257(2): 149-157. [*Cheilanthes hieronymi*, *Cheilanthes poeppigiana*]
523. Pongkai, P., Zhang, L. B. & Pollawatn, R. 2016. A new species of *Hypodematum* (Polypodiaceae, Hypodematioideae) from a limestone cave in Thailand. *Phytotaxa* 286(3): 193-197. [*Hypodematum boonkerdii*]
524. Pouteau, R., Meyer, J. Y., Blanchard, P., Nitta, J. H., Terorotua, M. & Taputuarai, R. 2016. Fern species richness and abundance are indicators of climate change on high-elevation islands: evidence from an elevational gradient on Tahiti (French Polynesia). *Climatic Change* 138(1-2): 143-156.
525. PPG I (Schuettpelz, E., Schneider, H., Smith, A. R., Hovenkamp, P., Prado, J., Rouhan, G., Salino, A., Sundue, M., Almeida, T. E., Parris, B., Sessa, E. B., Field, A. R., Gasper, A. L. de, Rothfels, C. J., Windham, M. D., Lehnert, M., Dauphin, B., Ebihara, A., Lehtonen, S., Schwartsburg, P. B., Metzgar, J., Zhang, L. B., Kuo, L. Y., Brownsey, P. J., Kato, M., Arana, M. D., Assis, F. C., Barker, M. S., Barrington, D. S., Chang, H. M., Chang, Y. H., Chao, Y. S., Chen, C. W., Chen, D. K., Chiou, W. L., Dittrich, V. A. O., Duan, Y. F., Dubuisson, J. Y., Farrar, D. R., Fawcett, S., Galan, J., Goes-Neto, L. A. D., Grant, J. R., Grusz, A. L., Haufler, C., Hauk, W., He, H., Hennequin, S., Hirai, R. Y., Huiet, L., Kessler, M., Korall, P., Labiak, P. H., Larsson, A., Leon, B., Li, C. X., Li, F. W., Link-Perez, M., Liu, H. M., Lu, N. T., Meza-Torres, E. I., Miao, X. Y., Moran, R., Mynssen, C. M., Nagalingum, N., Øllgaard, B., Paul, A. M., Pereira, J. B. D., Perrie, L. R., Ponce, M., Ranker, T. A., Schulz, C., Shinohara, W., Shmakov, A., Sigel, E. M., Souza, F. S. de, Sylvestre, L. D., Testo, W., Triana-Moreno, L. A., Tsutsumi, C., Tuomisto, H., Valdespino, I. A., Vasco, A., Viveros, R. S., Weakley, A., Wei, R., Weststrand, S., Wolf, P. G., Yatskievych, G., Xu, X. G., Yan, Y. H., Zhang, L., Zhang, X. C. & Zhou, X. M.) 2016. A community-derived classification for extant lycophytes and ferns. *Journal of Systematics and Evolution* 54(6): 563-603.
526. Prada, C., Galan, J., Saiz, P., Passarelli, L., Ciciarelli, M. & Rolleri, C. H. 2016. Diagnostic characters of sporogenous fronds and sporangia of *Blechnum* L. (Blechnaceae). *Iheringia Serie Botanica* 71(2): 161-174.
527. Prado, C., Chocobar Ponce, S., Pagano, E., Prado, F. E. & Rosa, M. 2016. Differential physiological responses of two *Salvinia* species to hexavalent chromium at a glance. *Aquatic Toxicology* 175: 213-221.
528. Prado, J. & Moran, R. C. 2016. Monograph of the West Indian fern genus *Polystichopsis* (Dryopteridaceae). *Brittonia* 68(1): 1-24.
529. Prasad, S. M., Kumar, S., Parihar, P. & Singh, R. 2016. Interactive effects of herbicide and enhanced UV-B on growth, oxidative damage and the ascorbate-glutathione cycle in two *Azolla* species. *Ecotoxicology and Environmental Safety* 133: 341-349.
530. Pratt, P. D., Makinson, J. R., Purcell, M. F. & Rayamajhi, M. B. 2016. The suitability of select ferns as hosts for *Archips machlopis* (Lepidoptera: Tortricidae). *Florida Entomologist* 99(3): 572-573. [*Lygodium microphyllum*]
531. Prebble, M., Whitau, R., Meyer, J. Y., Sibley-Punnett, L., Fallon, S. & Porch, N. 2016. Abrupt late Pleistocene ecological and climate change on Tahiti (French Polynesia). *Journal of Biogeography* 43(12): 2438-2453.

532. Pressel, S., Bidartondo, M. I., Field, K. J., Rimington, W. R. & Duckett, J. G. 2016. Pteridophyte fungal associations: current knowledge and future perspectives. *Journal of Systematics and Evolution* 54(6): 666-678.
533. Prokopuk, M. S. 2016. New record of *Azolla caroliniana* in water bodies of Kiev. *Hydrobiological Journal* 52(2): 54-58.
534. Prosperc, K., McLaren, K. P. & Wilson, B. 2016. Characterizing the status (disturbed, hybrid or novel) of swamp forest fragments in a Caribbean Ramsar wetland: the impact of anthropogenic degradation and invasive plant species. *Environmental Management* 58(4): 655-681.
535. Pryer, K. M., Huiet, L., Li, F. W., Rothfels, C. J. & Schuettpelz, E. 2016. Maidenhair ferns, *Adiantum*, are indeed monophyletic and sister to shoestring ferns, vittarioids (Pteridaceae). *Systematic Botany* 41(1): 17-23.
536. Quamar, M. & Bera, S. K. 2016. Pollen analysis of spider web samples from Korba District, Chhattisgarh (central India): an aerobiological aspect. *Aerobiologia* 32(4): 645-655.
537. Rabelo, L. S. & Schwartsburd, P. B. 2016. Schizaeales (Filicopsida, Tracheophyta) of Vicos, Minas Gerais, Brazil, with special reference to hybrids. *Brittonia* 68(4): 379-396.
538. Rahaman, S., Singh, P. K., Basu, P., Gupta, S., Basu, M. & Ganguli, S. 2016. Isolation and computational characterization of glutathione peroxidase gene from an aquatic fern - *Salvinia molesta*. *International Letters of Natural Sciences* 51: 58-62.
539. Rajaganesh, R., Murugan, K., Panneerselvam, C., Jayashanthini, S., Aziz, A., Roni, M., Suresh, U., Trivedi, S., Rehman, H., Higuchi, A., Nicoletti, M. & Benelli, G. 2016. Fern-synthesized silver nanocrystals: towards a new class of mosquito oviposition deterrents? *Research in Veterinary Science* 109: 40-51.
540. Rajagopal, P. K. & Bhat, K. G. 2016. An updated account of pteridophytes of Karnataka. *Indian Fern Journal* 33(1-2): 119-141.
541. Rajesh, K. D., Subramani, V., Annamalai, P., Nakulan V, R., Narayaperumal, J. & Solomon, J. 2016. *In vitro* study of trematocidal action of *Dicranopteris linearis* (Burm.f.) Underw. extracts against *Gastrothylax crumenifer*. *Biomedicine and Pharmacotherapy* 84: 2042-2053.
542. Rakotondrainibe, F. & Jouy, A. 2016. Revision of the genus *Deparia* Hook. & Grev. (Pteridophyta, Athyriaceae) from Madagascar: three new species, a new synonymy and putative hybrids. *Candollea* 71(2): 357-371.[*Deparia floreniae*, *D. longipilosa*, *D. septentrionalis*]
543. Rakotondrainibe, F. & Jouy, A. 2016. Taxonomical and nomenclatural novelties in the genus *Pteris* L. (Pteridaceae) from Madagascar. *Adansonia* 38(1): 15-28.[new species, *Pteris janssenii*, *P. pseudowoodwardioides*, *P. rasoloheryana*, *P. rugosa*]
544. Rakotondrainibe, F., Duhem, B., Reeb, C. & Smith, A. R. 2016. The genus *Hypodematum* Kunze (Hypodematiaceae) from Madagascar: two species of which one is newly described. *Adansonia* 38(2): 159-164.[*Hypodematum delicatulum*, new species]
545. Raman, G., Choi, K. S. & Park, S. 2016. Phylogenetic relationships of the fern *Cyrtomium falcatum* (Dryopteridaceae) from Dokdo Island based on chloroplast genome sequencing. *Genes* 7(12): e115.
546. Ramirez-Barahona, S., Barrera-Redondo, J. & Eguiarte, L. E. 2016. Rates of ecological divergence and body size evolution are correlated with species diversification in scaly tree ferns. *Proceedings of the Royal Society B-Biological Sciences* 283(1834): e20161098.

547. Rana, D. & Masoodi, U. R. H. 2016. Threat categorization and conservation prioritization of floristic diversity in the Indian Himalayan region: A state of art approach from Shimla water catchment wildlife sanctuary. *Vegetos* 29(SI): 1-10.
548. Randrianarison, A., Schlaepfer, R., Mills, R., Herve, D., Razanaka, S., Rakotoarimanana, V., Carriere, S. M. & Buttler, A. 2016. Linking historical land use to present vegetation and soil characteristics under slash-and-burn cultivation in Madagascar. *Applied Vegetation Science* 19(1): 40-52.
549. Ranil, R. H. G., Beneragama, C. K., Pushpakumara, D. K. N. G. & Wijesundara, D. S. A. 2016. Ornamental pteridophytes: an underexploited opportunity for the Sri Lankan floriculture industry. *Journal of the National Science Foundation of Sri Lanka* 43(4): 293-301.
550. Ranil, R. H. G., Fraser-Jenkins, C. R., Pushpakumara, D. K. N. G., Wijesundara, D. S. A. & Parris, B. S. 2016. The endemic pteridophyte flora of Sri Lanka: taxonomy, geographical distribution and conservation status. *Indian Fern Journal* 33(1-2): 1-36.
551. Ranker, T. A. 2016. What do we know about Hawaiian ferns and lycophytes? *Journal of Systematics and Evolution* 54(6): 626-637.
552. Ravi, B. X. 2016. *In vitro* polyembryony induction in a critically endangered fern, *Pteris tripartita* Sw. *Asian Pacific Journal of Reproduction* 5(4): 345-350.
553. Ray, P. & Craven, K. D. 2016. *Sebacina vermicifera*: a unique root symbiont with vast agronomic potential. *World Journal of Microbiology & Biotechnology* 32(1): e16.
554. Reddy, S. G. E. & Kumari, A. 2016. Seasonal incidence of aphid, *Amphorophora ampullata* Bukton (Homoptera: Aphididae) on fern, *Hypolepis polypodioides* (Blume) Hook. (Hypolepidaceae) from Western Himalaya. *Archives of Phytopathology and Plant Protection* 49(13-14): 335-342.
555. Reid, J. L., Chaves-Fallas, J. M., Holl, K. D. & Zahawi, R. A. 2016. Tropical forest restoration enriches vascular epiphyte recovery. *Applied Vegetation Science* 19(3): 508-517.
556. Renner, S. S., Grimm, G. W., Kapli, P. & Denk, T. 2016. Species relationships and divergence times in beeches: new insights from the inclusion of 53 young and old fossils in a birth-death clock model. *Philosophical Transactions of the Royal Society B-Biological Sciences* 371(1699): e20150135. [Osmundaceae]
557. Rensing, S. A. 2016. Genomes and evolution of charophytes, bryophytes, lycophytes and ferns. Academic Press Ltd-Elsevier Science Ltd: London. 322 pp.
558. Resmi, S., Thomas, V. P. & Sreenivas, V. K. 2016. Stipe anatomical studies on selected pteridophytes of south India. *Acta Botanica Hungarica* 58(1-2): 167-176.
559. Richa, G., Amit, K., Soni, A. B. & Bharti, S. 2016. Effect of mild thermal treatment and pH in quality of minimally processed *Marsilea vestita* leaves. *Research Journal of Chemistry and Environment* 20(2): 17-23.
560. Riefner Jr, R. E. & Smith, A. R. 2016. *Pteris multifida* (Pteridaceae) rediscovered in southern California (USA), with a key to species and notes on escaped cultivars. *Journal of the Botanical Research Institute of Texas* 10(2): 517-526.
561. Riegel, W. & Wilde, V. 2016. An early Eocene *Sphagnum* bog at Schoningen, northern Germany. *International Journal of Coal Geology* 159: 57-70.
562. Rimgaile-Voicik, R. & Naujalis, J. R. 2016. Presence of juvenile club moss (Lycopodiaceae) sporophytes and gametophytes in relation to vegetation cover in dry pine forests. *American Fern Journal* 106(4): 242-257.

563. Roberts, M. W., D'amato, A. W., Kern, C. C. & Palik, B. J. 2016. Long-term impacts of variable retention harvesting on ground-layer plant communities in *Pinus resinosa* forests. *Journal of Applied Ecology* 53(4): 1106-1116.
564. Rocha-Uriartt, L., Becker, D. F. P., Graeff, V., Koch, N. M. & Schmitt, J. L. 2016. Functional patterns and species diversity of epiphytic vascular spore-producing plants in riparian forests with different vegetation structure from southern Brazil. *Plant Ecology and Evolution* 149(3): 261-271.
565. Rodrigues, J. P. V., Pereira-Colavite, A. & Mello, R. L. 2016. Catalogue of the Teratomyzidae (Diptera, Opomyzoidea) of the World. *Zootaxa* 4205(3): 275-285.
566. Roelfsema, M. R. G. & Hedrich, R. 2016. Do stomata of evolutionary distant species differ in sensitivity to environmental signals? *New Phytologist* 211(3): 767-770.
567. Romero, E. J., Archangelsky, S. & Passalia, M. G. 2016. Two new angiosperm leaf morphotypes from the Anfiteatro de Ticó Formation (mid-Aptian) Santa Cruz Province, Argentina. *Review of Palaeobotany and Palynology* 235: 148-156.
568. Rosales, E., Meijide, I., Tavares, T., Pazos, M. & Sanroman, M. A. 2016. Grapefruit peelings as a promising biosorbent for the removal of leather dyes and hexavalent chromium. *Process Safety and Environmental Protection* 101: 61-71.[*Pteris vittata*]
569. Rosso, J. Q. D. 2016. Use of *Polypodium leucotomas* extract in clinical practice: a primer for the clinician. *Journal of Clinical and Aesthetic Dermatology* 9(5): 37-42.[*Phlebodium aureum*]
570. Rozefelds, A. C., Dettmann, M. E., Clifford, H. T. & Lewis, D. 2016. Macrofossil evidence of early sporophyte stages of a new genus of water fern *Tecaropteris* (Ceratopteroideae: Pteridaceae) from the Paleogene Redbank Plains Formation, southeast Queensland, Australia. *Alcheringa* 40(1): 1-11.
571. Runk, K., Pihkva, K., Liira, J. & Zobel, K. 2016. Selection of source material for introduction of the locally rare and threatened fern species *Asplenium septentrionale*. *Plant Ecology & Diversity* 9(2): 167-173.
572. Sa, N. D., Absy, M. L. & Soares, E. A. A. 2016. Late Holocene paleoenvironments of the floodplain of the Solimoes River, Central Amazonia, based on the palynological record of Lake Cabaliana. *Acta Botanica Brasilica* 30(3): 473-485.
573. Sagasti, A. J., Massini, J. G., Escapa, I. H., Guido, D. M. & Channing, A. 2016. *Millerocaulis zamunerae* sp. nov. (Osmundaceae) from Jurassic, geothermally influenced, wetland environments of Patagonia, Argentina. *Alcheringa* 40(4): 456-474.
574. Saggoo, M. I. S. & Kaur, M. 2016. Irregular meiotic behaviour in maidenhair fern *Adiantum capillus-veneris* L. from Northwest India. *Cytologia* 81(1): 77-82.
575. Saleem, F., Khan, M. T. J., Saleema, H., Azeem, M., Ahmed, S., Shahid, N., Gill, M. S. A., Nadeem, F., Ali, T., Altaf, H. & Mehmood, W. 2016. Phytochemical, antimicrobial and antioxidant activities of *Pteris cretica* L. (Pteridaceae) extracts. *Acta Poloniae Pharmaceutica* 73(5): 1397-1403.
576. Salino, A. & Arruda, A. J. 2016a. Flora of the cangas of the Serra dos Carajás, Pará, Brazil: Lygodiaceae. *Rodriguesia* 67(5): 1163-1164.
577. Salino, A. & Arruda, A. J. 2016b. Flora of the cangas of the Serra dos Carajás, Pará, Brazil: Cyatheaceae. *Rodriguesia* 67(5): 1145-1147.
578. Salino, A. & Arruda, A. J. 2016c. Flora of the cangas of the Serra dos Carajás, Pará, Brazil: Oleandraceae. *Rodriguesia* 67(5): 1165-1166.

579. Salino, A. & Arruda, A. J. 2016d. Flora of the cangas of the Serra dos Carajás, Pará, Brazil: Dennstaedtiaceae. *Rodriguesia* 67(5): 1149-1150.
580. Salino, A., Almeida, T. E. & Smith, A. R. 2016. New combinations in Neotropical Thelypteridaceae. *Phytokeys* 57: 11-50.
581. Salino, A., Leroy, C. J., Moura, L. C. & Moura, I. O. 2016. Four new species of the fern genus *Goniopteris* C. Presl (Thelypteridaceae) from Brazilian Atlantic Forest. *Phytotaxa* 255(3): 249-258.[*Goniopteris seidleri*, *G. smithii*, *G. subdimorpha*, *G. windischii*]
582. Sanchez-Gonzalez, A., Alvarez-Zuniga, E. & Lopez-Mata, L. 2016. Diversity and distribution patterns of ferns and lycophytes in a cloud forest in Mexico. *Revista Chapingo Serie Ciencias Forestales y del Ambiente* 22(3): 235-253.
583. Sanchez-Martinez, M. A. & Londono, G. A. 2016. Nesting behavior of three species of *Chlorospingus* (*C. flavigularis*, *C. flavopectus*, and *C. parvirostris*) in Southeastern Peru. *Wilson Journal of Ornithology* 128(4): 784-793.
584. Sanchez-Viveros, G., Ruvalcaba-Sil, J. L., Ferrera-Cerrato, R., Alarcon, A. & Xoconostle-Cazares, B. 2016. Changes in elemental content in fronds of *Azolla filiculoides* due to arsenic accumulation. *Plant Biosystems* 150(6): 1332-1340.
585. Sanin, D. & Torrez, V. 2016. Two new records for Colombia of *Psilotum nudum* (Psilotaceae) from the Magdalena Valley and in the Andean Amazonian foothills. *The Fern Gazette* 20(4): 157-162.
586. Sanin, D., Gomez-Cruz, A. D. & Moreno-Sanchez, M. 2016. Fossils of *Thelypteris* subg. *Meniscium* in Miocene deposits of the Cauca Valley, Colombia. *Brittonia* 68(2): 195-201.
587. Santos, C., Ferreira-Ribeiro, P., Sousa, H., Ribeiro, J., Santos, M., Net, T., Oliveira, P. A., Medeiros, R., Vilanova, M. & Costa, R. M. G. da. 2016. Ptaquiloside from bracken (*Pteridium* spp.) inhibits tumour-infiltrating CD8(+) T cells in HPV-16 transgenic mice. *Food and Chemical Toxicology* 97: 277-285.
588. Sanusi, R. A. M., Hamid, H. A. & Nuruddin, A. A. 2016. Stable isotope ratio (delta C-13) responses of *Platycerium bifurcatum* at different light intensity levels. *Asia Life Sciences* 25(1): 507-513.
589. Saxena, A., Singh, K. J., Murthy, S., Chandra, S. & Goswami, S. 2016. Spore tetrads, possible indicators of intense climatic regimes: case study from an early Permian stratum of Singrauli Coalfield, Son-Mahanadi Basin, India. *Geological Magazine* 153(3): 426-437.
590. Scanu, G. G., Kustatscher, E. & Pittau, P. 2016. New insights into the Middle Jurassic floras of Sardinia (Italy) - The Miccolis Collection at the Museo di Storia Naturale of Venice, Italy. *Bollettino della Societa Paleontologica Italiana* 55(1): 29-45.
591. Schallenberg-Rudinger, M. & Knoop, V. 2016. Coevolution of organelle RNA editing and nuclear specificity factors in early land plants, In: Rensing, K. A. (ed.). *Genomes and evolution of charophytes, bryophytes, lycophytes and ferns*. Academic Press Ltd-Elsevier Science Ltd: London, pp. 37-93.
592. Schneider, H. & Schuettpelz, E. 2016. Systematics and evolution of lycophytes and ferns. *Journal of Systematics and Evolution* 54(6): 561-562.
593. Schneider, H. 2016. Tempo and mode in the evolution of morphological disparity in the Neotropical fern genus *Pleopeltis*. *Biological Journal of the Linnean Society* 118(4): 929-939.
594. Schneider, H. 2016. The ghost of the Cretaceous terrestrial revolution in the evolution of fern-sawfly associations. *Journal of Systematics and Evolution* 54(2): 93-103.

595. Schneider, H., Schmidt, A. R. & Heinrichs, J. 2016. Burmese amber fossils bridge the gap in the Cretaceous record of polypod ferns. *Perspectives in Plant Ecology Evolution and Systematics* 18: 70-78.
596. Schuettpelz, E., Chen, C. W., Kessler, M., Pinson, J. B., Johnson, G., Davila, A., Cochran, A. T., Huiet, L. & Pryer, K. M. 2016. A revised generic classification of vittarioid ferns (Pteridaceae) based on molecular, micromorphological, and geographic data. *Taxon* 65(4): 708-722.
597. Schwartsburd, P. B. & Prado, J. 2016. A taxonomic revision of the South American species of *Hypolepis* (Dennstaedtiaceae), Part II. *American Fern Journal* 106(1): 1-53.
598. Schwartsburd, P. B., Miranda, C. V. & Prado, J. 2016. *Oleandra* (Oleandraceae) in the Brazilian Atlantic Forest. *American Fern Journal* 106(3): 191-205.
599. Schwartsburd, P. B., Oliveira, M. H., Joner, D. C., Loyola, R. & Prado, J. 2016. Additions to the taxonomy of the *Hypolepis rugosula* complex (Dennstaedtiaceae) in Africa: corrections, two new subspecies and new distribution maps. *Folia Geobotanica* 51(4): 373-381.
600. Schwerbrock, R. & Leuschner, C. 2016. Air humidity as key determinant of morphogenesis and productivity of the rare temperate woodland fern *Polystichum braunii*. *Plant Biology* 18(4): 649-657.
601. Sebesta, N., Richards, J. & Taylor, J. 2016. The effects of heat on spore viability of *Lygodium microphyllum* and implications for fire management. *Southeastern Naturalist* 15: 40-50.
602. Seegerts-Villiers, D. E. & Wagstaff, B. E. 2016. Morphological variation of stratigraphically important species in the genus *Pilosporites* Delcourt & Sprumont, 1955 in the Gippsland Basin, southeastern Australia. *Memoirs of Museum Victoria* 74: 81-91.
603. Sen, K. & Mukhopadhyay, R. 2016. Indian cheilanthoid fern - a numerical taxonomic approach. *Bangladesh Journal of Plant Taxonomy* 23(2): 133-142.
604. Senar Lluch, R. & Mesa Romeu, D. 2016. New populations of *Phyllitis sagittata* and *Phyllitis scolopendrium* to Valencian flora. *Flora Montiberica* 63: 8-12.
605. Seral, A. & Galán, J. M. G. 2016. Gametophytic phase of *Doryopteris triphylla* (Pteridaceae, Polypodiopsida). *Botanica Complutensis* 40: 63-70.
606. Seral, A., Flores-Bavestrello, A. & Galán, J. 2016. Gametophyte development and reproduction of two Chilean fern species, *Blechnum arcuatum* (Blechnaceae) and *Pteris semiadnata* (Pteridaceae). *Gayana Botanica* 73(2): 346-354.
607. Sessa, E. B. & Der, J. P. 2016. Evolutionary genomics of ferns and lycophytes, In: Rensing, S. A. (ed.). *Genomes and evolution of charophytes, bryophytes, lycophytes and ferns*. Academic Press Ltd-Elsevier Science Ltd: London, pp. 215-254.
608. Sessa, E. B., Testo, W. L. & Watkins, J. E. 2016. On the widespread capacity for, and functional significance of, extreme inbreeding in ferns. *New Phytologist* 211(3): 1108-1119.
609. Shaheen, S., Iqbal, Z., Ijaz, F., Alam, J. & Rahman, I. U. 2016. Floristic composition, biological spectrum and phenology of Tehsil Havelian, District Abbottabad, Kp, Pakistan. *Pakistan Journal of Botany* 48(5): 1849-1859.
610. Shalimov, A. P. & Shmakov, A. I. 2016. Spore morphology of *Polypodium aleuticum* A.E. Bobrov (Polypodiaceae) and related species. *Biological Bulletin of Bogdan Chmelnitskiy Melitopol State Pedagogical University* 6(2): 28-33.
611. Shaltout, K. H., Hosni, H. A., El-Kady, H. F., El-Beheiry, M. A. & Shaltout, S. K. 2016. Composition and pattern of alien species in the Egyptian flora. *Flora* 222: 104-110.

612. Shang, H., Wang, Y., Zhu, X. F., Zhao, G. H., Wang, F. H., Lu, J. M. & Yan, Y. H. 2016. Likely allopatric origins of *Adiantum x meishanianum* (Pteridaceae) through multiple hybridizations. *Journal of Systematics and Evolution* 54(5): 528-534.
613. Shang, J. Z., Xiang, L., Wang, Y. & Chen, L. Q. 2016. Progress on sex determinant regulation mechanism in ferns. *Acta Horticulturae Sinica* 43(9): 1776-1790.
614. Shao, W., Yang, L. H. & Zhou, X. L. 2016. Taxonomic significance of venation pattern in *Pyrrosia*. *Plant Science Journal* 34(2): 191-199.
615. Sharma, A. & Uniyal, S. K. 2016. Heavy metal accumulation in *Pyrrosia flocculosa* (D. Don) Ching growing in sites located along a vehicular disturbance gradient. *Environmental Monitoring and Assessment* 188(10): e547.
616. Sharma, B. D. & Purohit, S. N. 2016. Reproduction biology of some leptosporangiate homosporous ferns of Rajasthan, India. *Indian Fern Journal* 33(1-2): 107-118.
617. Sharma, J. G., Kumar, A., Saini, D., Targay, N. L., Khangembam, B. K. & Chakrabarti, R. 2016. *In vitro* digestibility study of some plant protein sources as aquafeed for carps *Labeo rohita* and *Cyprinus carpio* using pH-Stat method. *Indian Journal of Experimental Biology* 54(9): 606-611.
618. Sharma, P. & Samant, S. S. 2016. Diversity of pteridophytes in the surroundings and dam submergence areas of hydroelectric projects in Kullu district of Himachal Pradesh, Indian Himalaya. *Forestry Ideas* 22(2): 127-136.
619. Shen, W. H., Tan, Z. Q., He, Q. F., Peng, Y. H., Zheng, W. & He, F. 2016. Species composition and diversity characteristics of *Excentrodendron* Hsienmu-dominated communities in southwestern Guangxi, China. *Chinese Journal of Ecology* 35(5): 1204-1211.
620. Shinozaki, J., Hiruta, M., Okada, T. & Masuda, K. 2016. Migrated hopene synthases from *Colysis pothifolia* and identification of a migration switch controlling the number of 1,2-hydride and methyl shifts. *Chembiochem* 17(1): 65-70.
621. Shukla, A. K., Upadhyay, S. K., Mishra, M., Saurabh, S., Singh, R., Singh, H., Thakur, N., Rai, P., Pandey, P., Hans, A. L., Srivastava, S., Rajapure, V., Yadav, S. K., Singh, M. K., Kumar, J., Chandrashekhar, K., Verma, P. C., Singh, A. P., Nair, K. N., Bhadauria, S., Wahajuddin, M., Singh, S., Sharma, S., Omkar, Upadhyay, R. S., Ranade, S. A., Tuli, R. & Singh, P. K. 2016. Expression of an insecticidal fern protein in cotton protects against whitefly. *Nature Biotechnology* 34(10): 1046-1051.
622. Sigel, E. M. 2016. Genetic and genomic aspects of hybridization in ferns. *Journal of Systematics and Evolution* 54(6): 638-655.
623. Silva, J. B. 2016. A vegetation overview on rocky outcrops in Brazil. *Oecologia Australis* 20(4): 451-463.
624. Silvera, K. & Lasso, E. 2016. Ecophysiology and crassulacean acid metabolism of tropical epiphytes, In: Goldstein, G. & Santiago, L. S. (ed.). *Tropical tree physiology: adaptations and responses in a changing environment*. Springer: Dordrecht, pp. 25-43.
625. Singh, L. J., Kumar, B., Khelia, B. S. & Joshi, P. 2016. *Diplazium proliferum*: An addition to the Indian pteridophytic flora from little Andaman. *Journal of Japanese Botany* 91(1): 57-60.
626. Singh, S. K., Dubey, N. K. & Srivastava, G. K. 2016. The microspore morphology of some species of *Selaginella* (Selaginellaceae) from India. *Palynology* 40(2): 216-229.
627. Singh, S., Waman, A. A., Bohra, P., Gautam, R. K. & Roy, S. D. 2016. Conservation and sustainable utilization of horticultural biodiversity in tropical Andaman and Nicobar Islands, India. *Genetic Resources and Crop Evolution* 63(8): 1431-1445.

628. Singh, W. R., Kalamdhad, A. S. & Singh, J. 2016. The preferential composting of water fern and a reduction of the mobility of potential toxic elements in a rotary drum reactor. *Process Safety and Environmental Protection* 102: 485-494.
629. Sinha, T. & Ahmaruzzaman, M. 2016. Indigenous north eastern India fern mediated fabrication of spherical silver and anisotropic gold nano structured materials and their efficacy for the abatement of perilous organic compounds from waste water-A green approach. *RSC Advances* 6(25): 21076-21089.
630. Sita, Srivastava, M. & Srivastava, G. K. 2016. Morpho-anatomical studies of ligule and labium of *Isoetes coromandelina* L. in India. *Indian Fern Journal* 33(1-2): 37-46.
631. Skourtis-Stathaki, E., Clauson-Kaas, F., Brandt, K. K., Rasmussen, L. H. & Hansen, H. C. B. 2016. Dissipation of pterosin B in acid soils - Tracking the fate of the bracken fern carcinogen ptaquiloside. *Chemosphere* 165: 453-459.
632. Slater, S. M. & Wellman, C. H. 2016. Middle Jurassic vegetation dynamics based on quantitative analysis of spore/pollen assemblages from the Ravenscar Group, North Yorkshire, UK. *Palaeontology* 59(2): 305-328.
633. Smith, A. R., Weststrand, S. & Korall, P. 2016. *Selaginella pectinata* resurrected - the correct name for an unusual endemic spike moss from Madagascar. *American Fern Journal* 106(2): 131-134.
634. Smith, L. M. & Cherry, R. P. 2016. Hibernation ecology of an isolated population of bog turtles, *Glyptemys muhlenbergii*. *Copeia* 104(2): 475-481.[*Osmundastrum cinnamomeum*]
635. Smith, M. C., Lake, E. C. & Wheeler, G. S. 2016. Oviposition choice and larval performance of *Neomusotima conspurcatalis* on leaflet types of the invasive fern, *Lygodium microphyllum*. *Entomologia Experimentalis et Applicata* 160(1): 11-17.
636. Socolsky, C., Salamanca, E., Gimenez, A., Borkosky, S. A. & Bardon, A. 2016. Prenylated acylphloroglucinols with leishmanicidal activity from the fern *Elaphoglossum lindbergii*. *Journal of Natural Products* 79(1): 98-105.
637. Song, U., Kim, D. W., Waldman, B. & Lee, E. J. 2016. From phytoaccumulation to post-harvest use of water fern for landfill management. *Journal of Environmental Management* 182: 13-20.[*Azolla japonica*]
638. Sosa, V., Ornelas, J. F., Ramirez-Barahona, S. & Gandara, E. 2016. Historical reconstruction of climatic and elevation preferences and the evolution of cloud forest-adapted tree ferns in Mesoamerica. *Peerj* 4: e2696.
639. Soti, P. G. & Jayachandran, K. 2016. Effect of exotic invasive old world climbing fern (*Lygodium microphyllum*) on soil properties. *Journal of Soil Science and Plant Nutrition* 16(4): 930-940.
640. Sotiriou, P., Giannoutsou, E., Panteris, E., Apostolakos, P. & Galatis, B. 2016. Cell wall matrix polysaccharide distribution and cortical microtubule organization: two factors controlling mesophyll cell morphogenesis in land plants. *Annals of Botany* 117(3): 401-419.[*Asplenium nidus*]
641. Srivastava, S., Singh, M. & Paul, A. K. 2016. Arsenic bioremediation and bioactive potential of endophytic bacterium *Bacillus pumilus* isolated from *Pteris vittata* L. *International Journal of Advanced Biotechnology and Research* 7(1): 77-92.
642. Su, L. H., Li, Y. P., Li, H. M., Dai, W. F., Liu, D., Cao, L. & Li, R. T. 2016. Anti-inflammatory prenylated flavonoids from *Helminthostachys zeylanica*. *Chemical and Pharmaceutical Bulletin* 64(5): 497-501.

643. Su, L., Zhao, W., Zhang, J., Yang, Y., Guo, Y., Fan, Q. & Liao, W. 2016. Analyses on community characteristics and its relict and conservation of *Cathaya argyrophylla* at Bamianshan in Hu'nan Province. Journal of Plant Resources and Environment 25(4): 76-86.
644. Sujarwo, W., Arinasa, I. B. K., Caneva, G. & Guarrrera, P. M. 2016. Traditional knowledge of wild and semi-wild edible plants used in Bali (Indonesia) to maintain biological and cultural diversity. Plant Biosystems 150(5): 971-976.
645. Sujatha, S. & Sara, S. C. 2016. *In vitro* life cycle and quantitative analysis of DNA on sporophytic and gametophytic tissues of *Phymatosorus scolopendria* (Burm.f.) Pic. Ser. Indian Fern Journal 33(1-2): 164-174.
646. Sundari, D., Hananto, M. & Suharjo. 2016. Heavy metal in food ingredients in oil refinery industrial area, Dumai. Buletin Penelitian Sistem Kesehatan 19(1): 55-61.[Indonesian, English summary]
647. Sundue, M. & Poinar, G. 2016. An extinct grammitid fern genus from Dominican amber, with revision of *Grammitis succinea*. Review of Palaeobotany and Palynology 233: 193-198.
648. Sundue, M. & Testo, W. L. 2016. *Parapolystichum novoguineensis* (comb. nov.; Dryopteridaceae) from New Guinea. Phytotaxa 243(2): 193-196.
649. Sutan, N. A., Fierascu, I., Fierascu, R. C., Manolescu, D. S. & Soare, L. C. 2016. Comparative analytical characterization and *in vitro* cytogenotoxic activity evaluation of *Asplenium scolopendrium* L. leaves and rhizome extracts prior to and after Ag nanoparticles phytosynthesis. Industrial Crops and Products 83: 379-386.
650. Suzuki, R. O., Kenta, T., Sato, M., Masaki, D. & Kanai, R. 2016. Continuous harvesting of a dominant bracken alters a cool-temperate montane grassland community and increases plant diversity in Nagano, Japan. Ecological Research 31(5): 639-644.
651. Syaefudin, S., Juniarti, A., Rosiyana, L., Setyani, A. & Khodijah, S. 2016. Nanoparticles of *Selaginella doederleinii* leaf extract inhibit human lung cancer cells A549 C3 - IOP Conference Series: Earth and Environmental Science 39: e012029.
652. Szmeja, J., Galka-Kozak, A., Styszynska, A. & Marsz, A. 2016. Early spring warming as one of the factors responsible for expansion of aquatic fern *Salvinia natans* (L.) All. in the Vistula delta (south Baltic Sea coast). Plant Biosystems 150(3): 532-539.
653. Ta, C. A. K. & Arnason, J. T. 2016. Mini review of phytochemicals and plant taxa with activity as microbial biofilm and quorum sensing inhibitors. Molecules 21(1): e29.
654. Taft, J. B. 2016. Are small, isolated prairie remnants effectively smaller than they look and getting smaller? Journal of the Torrey Botanical Society 143(3): 207-223.[edge effects]
655. Takuno, S., Ran, J. H. & Gaut, B. S. 2016. Evolutionary patterns of genic DNA methylation vary across land plants. Nature Plants 2(2): e15222.
656. Tanaka, T. & Sato, T. 2016. Contemporary patterns and temporal changes in alien plant species richness along an elevational gradient in central Japan. Plant Ecology and Evolution 149(2): 177-188.
657. Taylor, W. C., Moran, R. C. & Brunton, D. F. 2016. Isoetaceae. In: Naczi, R. (ed.) Manual of the Vascular Plants of the Northeastern United States. New York Botanical Garden Press, Bronx, USA. 9p.
658. Testo, W. & Sundue, M. 2016. A 4000-species dataset provides new insight into the evolution of ferns. Molecular Phylogenetics and Evolution 105: 200-211.

659. Thomas, A., Prashob Peter, K. J. & Chandramohanakumar, N. 2016. A profiling of anti-tumour potential of sterols in the mangrove fern *Acrostichum aureum*. International Journal of Pharmacognosy and Phytochemical Research 8(11): 1828-1832.
660. Thomson, J. A. 2016. Free axial lobes: an important diagnostic character in *Pteridium* (Dennstaedtiaceae). Telopea 19: 193-200.
661. Thripleton, T., Bugmann, H., Kramer-Priewasser, K. & Snell, R. S. 2016. Herbaceous understorey: an overlooked player in forest landscape dynamics? Ecosystems 19(7): 1240-1254.
662. Tian, N., Wang, Y. D., Dong, M., Li, L. Q. & Jiang, Z. K. 2016. A systematic overview of fossil Osmundalean ferns in China: diversity variation, distribution pattern, and evolutionary implications. Palaeoworld 25(2): 149-169.
663. Tiwari, S., Sarangi, B. K. & Thul, S. T. 2016. Identification of arsenic resistant endophytic bacteria from *Pteris vittata* roots and characterization for arsenic remediation application. Journal of Environmental Management 180: 359-365.
664. Tognella, M. M. P., Soares, M. L. G., Cuevas, E. & Medina, E. 2016. Heterogeneity of elemental composition and natural abundance of stable isotopes of C and N in soils and leaves of mangroves at their southernmost West Atlantic range. Brazilian Journal of Biology 76(4): 994-1003.[*Acrostichum danaeifolium*]
665. Tomei, E. J. & Wolniak, S. M. 2016. Kinesin-2 and kinesin-9 have atypical functions during ciliogenesis in the male gametophyte of *Marsilea vestita*. BMC Cell Biology 17: e29.
666. Tomei, E. J. & Wolniak, S. M. 2016. Transcriptome analysis reveals a diverse family of kinesins essential for spermatogenesis in the fern *Marsilea*. Cytoskeleton 73(3): 145-159.
667. Torre, J. B. B. de la, Claveria, R. J. R., Perez, R. E. C., Perez, T. R. & Doronila, A. I. 2016. Copper uptake by *Pteris melanocaulon* Fee from a copper-gold mine in Surigao del Norte, Philippines. International Journal of Phytoremediation 18(5): 435-441.
668. Tosens, T., Nishida, K., Gago, J., Coopman, R. E., Cabrera, H. M., Carriqui, M., Laanisto, L., Morales, L., Nadal, M., Rojas, R., Talts, E., Tomas, M., Hanba, Y., Niinemets, U. & Flexas, J. 2016. The photosynthetic capacity in 35 ferns and fern allies: mesophyll CO₂ diffusion as a key trait. New Phytologist 209(4): 1576-1590.
669. Troccoli, A., Subbotin, S. A., Chitambar, J. J., Janssen, T., Waeyenberge, L., Stanley, J. D., Duncan, L. W., Agudelo, P., Uribe, G. E. M., Franco, J. & Inserra, R. N. 2016. Characterisation of amphimictic and parthenogenetic populations of *Pratylenchus boliviensis* Corbett, 1983 (Nematoda: Pratylenchidae) and their phylogenetic relationships with closely related species. Nematology 18: 651-678.[*Nephrolepis exaltata*]
670. Troia, A. & Lansdown, R. 2016. The first confirmed population of the globally endangered *Pilularia minuta* (Marsileaceae) in Sicily. Webbia 71(2): 283-286.
671. Troia, A., Pereira, J. B., Kim, C. & Taylor, W. C. 2016. The genus *Isoetes* (Isoetaceae): a provisional checklist of the accepted and unresolved taxa. Phytotaxa 277(2): 101-145.
672. Tsutsumi, C., Chen, C. W., Larsson, A., Hirayama, Y. & Kato, M. 2016. Phylogeny and classification of Davalliaceae on the basis of chloroplast and nuclear markers. Taxon 65(6): 1236-1248.
673. Tsutsumi, C., Uemura, K., Yatabe-Kakugawa, Y., Tsukagoshi, M. & Kato, M. 2016. A comparative morphological study of pinnules in the Cenozoic *Osmunda* subgenus *Osmunda* (Osmundaceae): implications for its historical biogeography and phylogeny. International Journal of Plant Sciences 177(5): 449-457.

674. Tu, X., Xu, X. H., Zhang, Y., Ruan, Q. F., Gao, H. L. & Yuan, C. Y. 2016. Study on ecological environment and accompanying plants' community characteristics study of wild *Panax japonicus* in Enshi. China Journal of Chinese Materia Medica 41(9): 1596-1601.
675. Tuomisto, H., Moulatlet, G. M., Balslev, H., Emilio, T., Figueiredo, F. O. G., Pedersen, D. & Ruokolainen, K. 2016. A compositional turnover zone of biogeographical magnitude within lowland Amazonia. Journal of Biogeography 43(12): 2400-2411.
676. Tuovinen, T. S., Kasurinen, A., Haikio, E., Tervahauta, A., Makkonen, S., Holopainen, T. & Juutilainen, J. 2016. Transfer of elements relevant to nuclear fuel cycle from soil to boreal plants and animals in experimental meso- and microcosms. Science of the Total Environment 539: 252-261.[*Dryopteris carthusiana*]
677. Turner, B. L., Geoghegan, J., Lawrence, D., Radel, C., Schmook, B., Vance, C., Manson, S., Keys, E., Foster, D., Klepeis, P., Vester, H., Rogan, J., Chowdhury, R. R., Schneider, L., Dickson, R. & Ogenva-Himmelberger, Y. 2016. Land system science and the social-environmental system: the case of Southern Yucatan Peninsular Region (SYPR) project. Current Opinion in Environmental Sustainability 19: 18-29.[*Pteridium*]
678. Ueda, Y. 2016. Final-stage site-selective acylation for the total synthesis of natural glycosides. Journal of the Pharmaceutical Society of Japan 136(12): 1631-1639.[*Pteridium*]
679. Unida, S. & Patruno, S. 2016. The palynostratigraphy of the Upper Maiolica, Sellì Level and the Lower Marne a Fucoidi units in the proposed Barremian/Aptian (Lower Cretaceous) GSSP stratotype at Gorgo a Cerbara, Umbria-Marche Basin, Italy. Palynology 40(2): 230-246.
680. Upadhyay, Y., Lacasse, A. & Asselin, H. 2016. Traditional uses of medicinal plants from the Canadian boreal forest for the management of chronic pain syndromes. Pain Practice 16(4): 459-466.[*Lycopodium obscurum*, *Matteuccia struthiopteris*, *Pteridium aquilinum*]
681. Vaganov, A. V., Shmakov, A. I. & Friesen, N. 2016. Synopsis of the genus *Anopteris* (Pteridophyta, Pteridaceae). Biosystems Diversity 24(2): 495-500.
682. Vajda, V., Fernandez, M. D. P., Villanueva-Amadoz, U., Lehsten, V. & Alcala, L. 2016. Dietary and environmental implications of Early Cretaceous predatory dinosaur coprolites from Teruel, Spain. Palaeogeography Palaeoclimatology Palaeoecology 464: 134-142.
683. Vajda, V., Linderson, H. & McLoughlin, S. 2016. Disrupted vegetation as a response to Jurassic volcanism in southern Sweden, In: Kear, B. P., Lindgren, J., Hurum, J. H., Milan, J. & Vajda, V. (ed.). Mesozoic biotas of Scandinavia and its Arctic territories. Geological Society: Bath, pp. 127-147.
684. Valdespino, I. A. 2016. Novelties in *Selaginella* (Selaginellaceae - Lycopodiophyta), with emphasis on Brazilian species. Phytokeys 57: 93-133.
685. van der Burgh, J. & van Konijnenburg-van Cittert, J. H. A. 2016. The Kimmeridgian flora of Segelhorst, northern Germany (Niedersachsen). Documenta Naturae 198: 1-35.
686. van der Ent, A., Erskine, P., Mulligan, D., Repin, R. & Karim, R. 2016. Vegetation on ultramafic edaphic 'islands' in Kinabalu Park (Sabah, Malaysia) in relation to soil chemistry and elevation. Plant and Soil 403(1-2): 77-101.
687. van Kempen, M. M. L., Smolders, A. J. P., Bogemann, G. M., Lamers, L. P. M. & Roelofs, J. G. M. 2016. Interacting effects of atmospheric CO₂ enrichment and solar radiation on growth of the aquatic fern *Azolla filiculoides*. Freshwater Biology 61(5): 596-606.
688. van Konijnenburg-van Cittert, J. H. A., Kustatscher, E., Pott, C., Schmeissner, S., Dütsch, G. & Krings, M. 2016. New data on *Selaginellites coburgensis* from the Rhaetian of Wüstenwelsberg

- (Upper Franconia, Germany). Neues Jahrbuch für Geologie und Palaeontologie, Abhandlungen 280(2): 177-181.
689. Vasco, A., Smalls, T. L., Graham, S. W., Cooper, E. D., Wong, G. K. S., Stevenson, D. W., Moran, R. C. & Ambrose, B. A. 2016. Challenging the paradigms of leaf evolution: Class III HD-Zips in ferns and lycophytes. *New Phytologist* 212(3): 745-758.
690. Vasheka, O., Puglielli, G., Crescente, M. F., Varone, L. & Gratani, L. 2016. Anatomical and morphological leaf traits of three evergreen ferns (*Polystichum setiferum*, *Polypodium interjectum* and *Asplenium scolopendrium*). *American Fern Journal* 106(4): 258-268.
691. Vaz, F. C., Tereso, J. P., Lemos, P. P. & Abrantes, P. B. 2016. Estudo arqueobotânico do castro de cidadelhe (Mesão frio): Resultados preliminares. *Estudos do Quaternário* 2016(15): 59-69.[*Pteridium aquilinum*, Portuguese]
692. Vera, E. I. & Cesari, S. N. 2016. Marattiaceae synangia from the lower Cretaceous of Antarctica. *Review of Palaeobotany and Palynology* 235: 6-10.
693. Verma, D. K., Hasan, S. H. & Banik, R. M. 2016. Photo-catalyzed and phyto-mediated rapid green synthesis of silver nanoparticles using herbal extract of *Salvinia molesta* and its antimicrobial efficacy. *Journal of Photochemistry and Photobiology B-Biology* 155: 51-59.
694. Vermeij, G. J. 2016. Plant defences on land and in water: Why are they so different? *Annals of Botany* 117(7): 1099-1109.
695. Viana, P. L., Mota, N. F. D. O., Gil, A. D. S. B., Salino, A., Zappi, D. C., Harley, R. M., Ilkiu-Borges, A. L., Secco, R. D. S., Almeida, T. E., Watanabe, M. T. C., Dos Santos, J. U. M., Trovo, M., Maurity, C. & Giulietti, A. M. 2016. Flora of the cangas of the Serra dos Carajás, Pará, Brazil: History, study area and methodology. *Rodriguesia* 67(5): 1107-1124.
696. Vijisha, P. & Rajesh, K. P. 2016. Pteridophyte flora of Aralam Wildlife Sanctuary, Kerala - A preliminary analysis. *Cryptogam Biodiversity and Assessment* 1(1): 71-74.
697. Villasenor, J. L. 2016. Checklist of the native vascular plants of Mexico. *Revista Mexicana de Biodiversidad* 87(3): 559-902.
698. Vries, J., Fischer, A. M., Roettger, M., Rommel, S., Schluemann, H., Brautigam, A., Carlsbecker, A. & Gould, S. B. 2016. Cytokinin-induced promotion of root meristem size in the fern *Azolla* supports a shoot-like origin of euphylophyte roots. *New Phytologist* 209(2): 705-720.
699. Wada, M. 2016. Chloroplast and nuclear photorelocation movements. *Proceedings of the Japan Academy Series B-Physical and Biological Sciences* 92(9): 387-411.[*Adiantum capillus-veneris*]
700. Wagner, R. H. & Alvarez-Vazquez, C. 2016. A reappraisal of *Pecopteris miltonii* (Artis) Brongniart, a mid-Westphalian (Early-Mid Pennsylvanian) fern. *Proceedings of the Yorkshire Geological Society* 61: 37-53.
701. Wahid, F., Khan, T., Shehzad, O., Shehzad, A. & Kim, Y. Y. 2016. Phytochemical analysis and effects of *Pteris vittata* extract on visual processes. *Journal of Natural Medicines* 70(1): 8-17.
702. Wan, X. M., Lei, M. & Chen, T. B. 2016. Interaction of As and Sb in the hyperaccumulator *Pteris vittata* L.: changes in As and Sb speciation by XANES. *Environmental Science and Pollution Research* 23(19): 19173-19181.
703. Wang, B., Wu, F. Z., Xiao, S., Yang, W. Q., Justine, M. F., He, J. Y. & Tan, B. 2016. Effect of succession gaps on the understory water-holding capacity in an over-mature alpine forest at the upper reaches of the Yangtze River. *Hydrological Processes* 30(5): 692-703.

704. Wang, B., Xia, F. Y., Engel, M. S., Perrichot, V., Shi, G. L., Zhang, H. C., Chen, J., Jarzembski, E. A., Wappler, T. & Rust, J. 2016. Debris-carrying camouflage among diverse lineages of Cretaceous insects. *Science Advances* 2(6): e1501918.
705. Wang, C. J., Wan, J. Z., Zhang, Z. X. & Zhang, G. M. 2016. Identifying appropriate protected areas for endangered fern species under climate change. *Springerplus* 5: e904.
706. Wang, C. X. & Yan, Y. H. 2016. A case of background matching in the caterpillars of *Xenotrachea* (Lepidoptera, Noctuidae) with the fronds of *Polypodoides amoena* (Polypodiaceae). *American Fern Journal* 106(3): 223-226.
707. Wang, F. H., Lu, J. M., Wen, J., Ebihara, A. & Li, D. Z. 2016. Applying DNA barcodes to identify closely related species of ferns: a case study of the Chinese *Adiantum* (Pteridaceae). *Plos One* 11(9): e0160611.
708. Wang, Q. S. Y., Zheng, C. Y., Zhang, X. Y., Zeng, F. X. & Xing, J. 2016. Impacts of nitrogen addition on foliar nitrogen and phosphorus stoichiometry in a subtropical evergreen broad-leaved forest in Mount Wuyi. *Chinese Journal of Plant Ecology* 40(11): 1124-1135.[*Woodwardia japonica*]
709. Wang, S. Y., Kuo, Y. C., Hong, A., Chang, Y. M. & Kao, C. M. 2016. Bioremediation of diesel and lubricant oil-contaminated soils using enhanced landfarming system. *Chemosphere* 164: 558-567.[*Cyathea*, fern chips]
710. Wang, W. Z., Tong, W. S., Li, Y., Gao, R., Zhang, L. G. & Chang, Y. 2016. *De novo* transcriptome sequencing and comparative analysis of differentially expressed genes in *Dryoperis fragrans* under temperature stress. *Pakistan Journal of Botany* 48(3): 885-898.
711. Wang, X. X., Long, W. X., Schamp, B. S., Yang, X. B., Kang, Y., Xie, Z. X. & Xiong, M. H. 2016. Vascular epiphyte diversity differs with host crown zone and diameter, but not orientation in a tropical cloud forest. *Plos One* 11(7): e0158548.
712. Wang, X., Fang, X., Gan, H., Jiang, W. & Wu, M. 2016. Electrochemical determination of ternatin in ternate grape fern herb based on the graphene-Au nanocomposite. *International Journal of Electrochemical Science* 11(11): 9369-9378.[*Botrychium ternatum*]
713. Wang, Y., Wang, X. & Wang, Y. 2016. Discussion on age of "Sailiyakedaban Group" in southern Yecheng, South Xinjiang, NW China. *Earth Science - Journal of China University of Geosciences* 41(7): 1099-1109.
714. Warren, J. M., Simmons, M. P., Wu, Z. Q. & Sloan, D. B. 2016. Linear plasmids and the rate of sequence evolution in plant mitochondrial genomes. *Genome Biology and Evolution* 8(2): 364-374.
715. Watkins, J. E., Churchill, A. C. & Holbrook, N. M. 2016. A site for sori: ecophysiology of fertile-sterile leaf dimorphy in ferns. *American Journal of Botany* 103(5): 845-855.
716. Wei, R. & Zhang, X. C. 2016. *Athyrium sessilipinnum*: a new lady fern (Athyriaceae) from southern China. *Brittonia* 68(4): 440-447.[new species]
717. Weigand, A. & Lehnert, M. 2016. The scaly tree ferns (Cyatheaceae-Polypodiopsida) of Brazil. *Acta Botanica Brasilica* 30(3): 336-350.
718. Wen, J., Nie, Z. L. & Ickert-Bond, S. M. 2016. Intercontinental disjunctions between eastern Asia and western North America in vascular plants highlight the biogeographic importance of the Bering land bridge from late Cretaceous to Neogene. *Journal of Systematics and Evolution* 54(5): 469-490.

719. Weststrand, S. & Korall, P. 2016. A subgeneric classification of *Selaginella* (Selaginellaceae). American Journal of Botany 103(12): 2160-2169.
720. Weststrand, S. & Korall, P. 2016. Phylogeny of Selaginellaceae: there is value in morphology after all! American Journal of Botany 103(12): 2136-2159.
721. Wheeler, A. & Götz, A. E. 2016. Palynofacies patterns of the Highveld coal deposits (Karoo Basin, South Africa): clues to reconstruction of palaeoenvironment and palaeoclimate. Acta Palaeobotanica 56(1): 3-15.
722. Whitney, C. W., Min, V. S., Giang, L. H., Can, V. V., Barber, K. & Lanh, T. T. 2016. Learning with elders: human ecology and ethnobotany explorations in Northern and Central Vietnam. Human Organization 75(1): 71-86.
723. Williams, E. W., Farrar, D. R. & Henson, D. 2016. Cryptic speciation in allotetraploids: lessons from the *Botrychium matricariifolium* complex. American Journal of Botany 103(4): 740-753.
724. Williams, E., Theis, Z. & Hoess, C. 2016. Identifying a cryptic *Adiantum* population through DNA barcoding. American Fern Journal 106(2): 135-142.
725. Wongphakdee, S., Boonkerd, T. & Pollawatn, R. 2016. *Tectaria kehdingiana* (Kuhn) M.G. Price (Tectariaceae), a lesser-known species from Peninsular Thailand. Songklanakarin Journal of Science and Technology 38(5): 575-579.
726. Wu, G. L., Kuo, T. H., Tsay, T. T., Tsai, I. J. & Chen, P. J. 2016. Glycoside hydrolase (GH) 45 and 5 candidate cellulases in *Aphelenchoides besseyi* isolated from bird's-nest fern. Plos One 11(7): e0158663. [Asplenium nidus, nematodes]
727. Xavier, G. S. A., Selvaraj, P. & John, N. 2016. Impact of phytoecdysone fractions of the ferns *Cyclosorus interruptus*, *Christella dentata* and *Nephrolepis cordifolia* on the biology of *Spodoptera litura* (Fab.). Journal of Biopesticides 9(2): 125-134.
728. Xie, S. P., Li, B. K., Zhang, S. H., Shao, Y., Wu, J. Y. & Sun, B. N. 2016. First megafossil record of *Neolepisorus* (Polypodiaceae) from the late Miocene of Yunnan, Southwest China. Palaeontologische Zeitschrift 90(2): 413-423.
729. Xu, X. G. & Zhang, L. B. 2016. *Pleocnemia siamensis* (Dryopteridaceae), a new fern species from southern Thailand. Phytotaxa 289(1): 88-92. [new species]
730. Xu, Y., Dai, X. L., Liu, B. D. & Wang, Q. X. 2016. Cloning, expression, and characterization of Fe-SOD from *Isoetes sinensis*. Genetics and Molecular Research 15(4): e15047131.
731. Xue, J. Z. & Basinger, J. F. 2016. *Melvillepterus quadriseriata* gen. et sp nov., a new plant assigned to Rhacophytales from the Upper Devonian (Famennian) of Arctic Canada. Geological Magazine 153(4): 601-617.
732. Yadav, R. K., Tripathi, K., Ramteke, P. W., Varghese, E. & Abraham, G. 2016. Salinity induced physiological and biochemical changes in the freshly separated cyanobionts of *Azolla microphylla* and *Azolla caroliniana*. Plant Physiology and Biochemistry 106: 39-45.
733. Yahaya, N. H., Stech, M., Zonneveld, B. J. M. & Hovenkamp, P. H. 2016. What is *Nephrolepis 'bostoniensis'*? Unravelling the origin of *Nephrolepis* hybrids and cultivars with molecular data. Scientia Horticulturae 204: 153-160.
734. Yamamoto, T., Tsuda, Y., Mori, G. M., Cruz, M. V., Shinmura, Y., Wee, A. K. S., Takayama, K., Asakawa, T., Yamakawa, T., Suleiman, M., Nunez-Farfán, J., Webb, E. L., Watano, Y. & Kajita, T. 2016. Development and characterization of 27 microsatellite markers for the mangrove fern, *Acrostichum aureum* (Pteridaceae). Applications in Plant Sciences 4(9): e1600042.

735. Yan, M. X., Wan, M. L., He, X. Z., Hou, X. D. & Wang, J. 2016. First report of Cisuralian (early Permian) charcoal layers within a coal bed from Baode, North China with reference to global wildfire distribution. *Palaeogeography Palaeoclimatology Palaeoecology* 459: 394-408.
736. Yanez, A., Marquez, G. J. & Morbelli, M. A. 2016. Spore morphology and ultrastructure of Dennstaedtiaceae from Paranaense phytogeographic province I.: genus *Dennstaedtia*. *Review of Palaeobotany and Palynology* 224: 181-194.
737. Yanez, A., Marquez, G. J. & Morbelli, M. A. 2016. Palynological analysis of Dennstaedtiaceae taxa from the Paranaense phytogeographic province that produce trilete spores II: *Microlepia speluncae* and *Pteridium arachnoideum*. *Anais da Academia Brasileira de Ciencias* 88(2): 877-890.
738. Yang, L., Chen, Y., Huang, Y., Wang, J. & Wen, M. 2016. Mixed allelopathic effect of *Eucalyptus* leaf litter and understorey fern in South China. *Journal of Tropical Forest Science* 28(4): 436-445.[*Dicranopteris dichotoma*]
739. Yang, P., Lu, T., Qiu, Z., Chen, P., Peng, Y. & Tan, X. 2016. Analyses on ecological characteristics and endangered reason of endangered plant *Petrocosmea qinlingensis*. *Journal of Plant Resources and Environment* 25(3): 90-95.[competition, plant communities]
740. Yang, S. X., Li, J., Liu, K. B., Li, R. H., Wen, Z. H., Ye, S. Y., Yi, S. & Chen, X. H. 2016. Pollen-spore distribution in the surface sediments of the western Bohai Sea, China. *Quaternary International* 392: 213-223.
741. Yang, X. Y., Long, Z. C., Gichira, A. W., Guo, Y. H., Wang, Q. F. & Chen, J. M. 2016. Development of microsatellite markers in the tetraploid fern *Ceratopteris thalictroides* (Parkeriaceae) using RAD tag sequencing. *Genetics and Molecular Research* 15(1): e15017550.
742. Yao, H. K., Duan, J. Y., Zhang, C. P., Li, Y. & Liu, C. Y. 2016. Coumaric acid glucosides from the Chinese fern *Polypodium hastatum*. *Chemistry of Natural Compounds* 52(4): 669-671.
743. Yepes, A., Sierra, A., Nino, L. M., Lopez, M., Garay, C., Vargas, D., Cabrera, E. & Barbosa, A. 2016. Biomass and total carbon in oak forests of southern Colombian Andes: contributions to the REDD plus project-wide approach. *Revista de Biología Tropical* 64(1): 399-412.
744. Yousaf, B., Amina, Liu, G., Wang, R., Qadir, A., Ali, M. U., Kanwal, Q., Munir, B., Asmatullah & Abbas, Z. 2016. Bisphenol A exposure and healing effects of *Adiantum capillus-veneris* L. plant extract (APE) in bisphenol A-induced reproductive toxicity in albino rats. *Environmental Science and Pollution Research* 23(12): 11645-11657.
745. Yu, R. P., Cheng, X. Y., Zhang, G. F., Li, H. & Gui, M. 2016. Observation on gametophyte development and apogamy of the endangered fern *Cibotium barometz*. *Plant Physiology Journal* 52(8): 1305-1311.
746. Zarate-Cruz, G. S., Zavaleta-Mancera, H. A., Alarcón, A. & Jimenez-Garcia, L. F. 2016. Phytotoxicity of ZnO nanoparticles on the aquatic fern *Azolla filiculoides* Lam. *Agrociencia* 50(6): 677-691.
747. Zeiger, C., Rodrigues da Silva, I. C., Mail, M., Kavalenka, M. N., Barthlott, W. & Hölscher, H. 2016. Microstructures of superhydrophobic plant leaves - Inspiration for efficient oil spill cleanup materials. *Bioinspiration and Biomimetics* 11(5): e056003.
748. Zeng, W. W. & Lai, L. S. 2016. Characterization of the mucilage extracted from the edible fronds of bird's nest fern (*Asplenium australasicum*) with enzymatic modifications. *Food Hydrocolloids* 53: 84-92.

749. Zhan, J., Li, T., Yu, H., Zhang, X. & Zhao, L. 2016. The influence of humic substance on Cd accumulation of phytostabilizer *Athyrium wardii* (Hook.) grown in Cd-contaminated soils. Environmental Science and Pollution Research 23(18): 18524-18532.
750. Zhang, J. L., Liu, F. Z. & Gui, G. F. 2016. Spatio-temporal variation of vegetation and analysis of its driving factors in Changbai Mountain National Nature Reserve. Acta Ecologica Sinica 36(12): 3525-3536.
751. Zhang, K. M., Shen, Y., Fang, Y. M. & Liu, Y. 2016. Changes in gametophyte physiology of *Pteris multifida* induced by the leaf leachate treatment of the invasive *Bidens pilosa*. Environmental Science and Pollution Research 23(4): 3578-3585.
752. Zhang, K. M., Shen, Y., Zhou, X. Q., Fang, Y. M., Liu, Y. & Ma, L. Q. 2016. Photosynthetic electron-transfer reactions in the gametophyte of *Pteris multifida* reveal the presence of allelopathic interference from the invasive plant species *Bidens pilosa*. Journal of Photochemistry and Photobiology B-Biology 158: 81-88.
753. Zhang, L., Schuettpelz, E., Rothfels, C. J., Zhou, X. M., Gao, X. F. & Zhang, L. B. 2016. Circumscription and phylogeny of the fern family Tectariaceae based on plastid and nuclear markers, with the description of two new genera: *Draconopteris* and *Malaiflix* (Tectariaceae). Taxon 65(4): 723-738.[new genus]
754. Zhang, S., Xia, W., Yang, X. & Zhang, T. 2016. Inhibition effect of aquaculture water of *Salvinia natans* (L.) All. on *Microcystis aeruginosa* PCC7806. Journal of Hygiene Research 45(1): 81-86.
755. Zhang, Y., Wu, X., Yang, Y., Zhang, C., Guo, W. & Song, W. 2016. Early Cretaceous plant fossils and their paleoenvironment in Longjiang basin on the eastern slope of middle Da Hinggan Mountains. Geological Bulletin of China 35(6): 856-865.
756. Zhang, Z., He, Z. W., Xu, S. H., Li, X. N., Guo, W. X., Yang, Y. C., Zhong, C. R., Zhou, R. C. & Shi, S. H. 2016. Transcriptome analyses provide insights into the phylogeny and adaptive evolution of the mangrove fern genus *Acrostichum*. Scientific Reports 6: e35634.
757. Zhao, C. F., Kwak, M. & Xiang, Q. P. 2016. Isolation and characterization of microsatellite markers in the *Lepisorus clathratus* complex (Polypodiaceae). Applications in Plant Sciences 4(10): e1600069.
758. Zhao, H. G. & Dong, S. Y. 2016. A new hybrid of *Tectaria* (Tectariaceae) from southern China. Phytotaxa 266(3): 213-218.
759. Zhao, L. N., Li, J. Y., Liu, H. Y. & Qin, H. N. 2016. Distribution, congruence, and hotspots of higher plants in China. Scientific Reports 6: e19080.
760. Zhao, L., Li, T. X., Zhang, X. Z., Chen, G. D., Zheng, Z. C. & Yu, H. Y. 2016. Pb uptake and phytostabilization potential of the mining ecotype of *Athyrium wardii* (Hook.) grown in Pb-contaminated soil. Clean-Soil Air Water 44(9): 1184-1190.
761. Zhao, L., Li, T., Yu, H., Zhang, X. & Zheng, Z. 2016. Effects of [S,S]-ethylenediaminedisuccinic acid and nitrilotriacetic acid on the efficiency of Pb phytostabilization by *Athyrium wardii* (Hook.) grown in Pb-contaminated soils. Journal of Environmental Management 182: 94-100.
762. Zhao, L., Li, T., Zhang, X., Chen, G., Zheng, Z. & Yu, H. 2016. Rhizosphere characteristics of Pb phytostabilizer *Athyrium wardii* (Hook.) involved in Pb accumulation. Environmental Earth Sciences 75(6): e463.
763. Zhao, R. R., Yang, W. L. & Zhang, G. M. 2016. A study of chromosome and gametophyte development in *Pellaea connectens* C. Chr. Phytotaxa 266(3): 206-212.

764. Zheleznova, O. S., Chernykh, N. A., Grachev, V. A., Baeva, Y. I. & Tobratov, S. A. 2016. Accumulation of ^{137}Cs and ^{40}K by plants of forest ecosystems: the estimation of plant species factor. Case study: mixed forests of the east European plain. Research Journal of Pharmaceutical, Biological and Chemical Sciences 7(6): 547-560.[*Pteridium aquilinum*]
765. Zheng, H. D. & Zhuang, W. Y. 2016. Two new species of *Crocicreas* (Helotiaceae, Ascomycota) revealed by morphological and molecular data. Phytotaxa 272(2): 149-156.
766. Zhou, M. Q., Wu, Q. Y., Han, Y. T. & Wang, K. W. 2016. Secondary metabolites of *Pteridium revolutum* and their immunosuppressive activity. Chemistry of Natural Compounds 52(6): 1147-1150.
767. Zhou, N., Wang, Y. D., Li, L. Q. & Zhang, X. Q. 2016. Diversity variation and tempo-spatial distributions of the Dipteridaceae ferns in the Mesozoic of China. Palaeoworld 25(2): 263-286.
768. Zhou, X., Sun, L. G., Chu, Y. X., Xia, Z. H., Zhou, X. Y., Li, X. Z., Chu, Z. D., Liu, X. J., Shao, D. & Wang, Y. H. 2016. Catastrophic drought in East Asian monsoon region during Heinrich event 1. Quaternary Science Reviews 141: 1-8.
769. Zhu, A. D., Guo, W. H., Gupta, S., Fan, W. S. & Mower, J. P. 2016. Evolutionary dynamics of the plastid inverted repeat: the effects of expansion, contraction, and loss on substitution rates. New Phytologist 209(4): 1747-1756.
770. Zhu, S. D., Li, R. H., Song, J., He, P. C., Liu, H., Berninger, F. & Ye, Q. 2016. Different leaf cost-benefit strategies of ferns distributed in contrasting light habitats of sub-tropical forests. Annals of Botany 117(3): 497-506.
771. Zhu, X. W., Mao, S. Y., Wu, N. Y., Jia, G. D., Sun, Y. G., Guan, H. X. & Wu, D. D. 2016. Detection and indication of 1,3,4-C27-29 triol in the sediment of northern South China Sea. Science China-Earth Sciences 59(6): 1187-1194.[*Azolla*]
772. Zotz, G. 2016. Plants on plants - the biology of vascular epiphytes. Springer, Cham, pp. 282.
773. Zotz, G., Weichgrebe, T., Happatz, H. & Einzmann, H. J. R. 2016. Measuring the terminal velocity of tiny diaspores. Seed Science Research 26(3): 222-230.
774. Zumkeller, S. M., Knoop, V. & Knie, N. 2016. Convergent evolution of fern-specific mitochondrial group II intron *atp1i361g2* and its ancient source parologue *rps3i249g2* and independent losses of intron and RNA editing among Pteridaceae. Genome Biology and Evolution 8(8): 2505-2519.
775. Zuo, Z. Y., Dong, S. Y. & Li, Y. Y. 2016. The *Alsophila costularis* in Mt. Yunkai. Life World 2016(12): 76-77. [Chinese]
776. Zuo, Z. Y., Wu, S. Y. & Dong, S. Y. 2016. A survey on the Cyatheaceae in Baichong Nature Reserve in Yangchun, Guangdong, South China. Subtropical Plant Science 45(3): 248-254. [Chinese, English abstract]

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Patrick J. Acock	Phylogeny of <i>Asplenium</i> and most aspects of <i>Equisetum</i> research
Ruth Aguraiuja	Population biology and restoration ecology of endangered fern species
Victor B. Amoroso	Botany; Economic ferns; Histochemical studies (medicinal ferns); Philippine <i>Cycas</i> ; Morphology and taxonomy
Sayuri Ando	Fern sporophyte development
Raju Antony	Systematic studies of <i>Selaginella</i> ; Ferns and conservation of ferns
Naomi Arcand	Ecology and biogeography of tree ferns
Ralph C. Archer	Fern horticulture
Nan Crystal Arens	Ecology of tree ferns
Monanjali Bandyopadhyay	Phyto-geography; Ecology; Fern lore; Ethnobotany
Yasmin S. Baksh-Comeau	Vascular flora of Trinidad and Tobago
Julie F. Barcelona	Philippine ferns/floristics; Ecology and conservation; <i>Odontosoria</i> systematics; Philippine <i>Rafflesia</i>
Wilfried H. Bennert	Ferns and lycopods
Subir Bera	Animal interaction with pteridophytes and its co-evolutionary significance
Kamlesh Bhakuni	Biodiversity, taxonomy and morphology of Central Himalayan ferns
Rodica Bercu	Histo-anatomy of ferns
Michel Boudrie	Pteridophytes of France and of the Guianas (systematics, taxonomy, ecology, distribution)
Siegmar W. Breckle	Ecosystems of the Earth; Ecology of halophytes; Tropical ecology; Desert ecology
William R. Buck	Systematic bryology
Walter Bujnoch	Ferns of Central Europe, especially <i>Dryopteris affinis</i>
Manuel G. Caluff	Selaginellaceae; Lycopodiaceae; Polypodiaceae (including Grammitidaceae); Fern culture; Ecology
Jian Guo Cao	Sexual reproduction and development of fern gametophytes
James D. Caponetti	Propagation of ferns by tissue culture

Kalyan Chakraborti	Phyto-geography; Ecology; Fern lore; Ethnobotany
Wen-Liang Chiou	Gametophyte morphology and development; Reproductive biology; Antheridiogen; Phenology of sporophytes; Fern systematics
Maarten Christenhuzs	Fern floras; Island biogeography; Botanical Journal of the Linnean Society (adjunct chief editor); Phytotaxa (founder)
Aurea M.T. Colli	Ecology and physiology
Marten W. de Boer	Pteridophytes of Bolivia and East Africa; Herbarium specimen collection
Shi-Yong Dong	<i>Tectaria</i> ; <i>Asplenium nidus</i> group; Taxonomy of Asian tropical ferns; Pteridophyte flora of Southern China
Franz G. Dunkel	Rare ferns; Ecology and population biology
Atsushi Ebihara	Speciation; Gametophytes; Hymenophyllaceae
Donald R. Farrar	Fern reproduction; <i>Botrychium</i> systematics
Kathryn Flinn	Ecology
Harald C. Frank	Tropical ferns in general; <i>Platycerium</i> ; Ant ferns; <i>Huperzia</i>
Christopher R. Fraser-Jenkins	Taxonomy; Floristics; Himalayan and all Asian pteridophytes; <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
Stephen C. Fry	Cell wall polysaccharides and enzymes
Mary Gibby	Evolution and speciation in ferns; Fern conservation
Arthur V. Gilman	Lycopodiaceae; Ophioglossaceae; Systematics of temperate ferns and allies
Hit Kishore Goswami	Population cytogenetics of <i>Isoetes</i> and <i>Ophioglossum</i> ; Pteridophytes as medicinal plants
Gary K. Greer	Phenotypic plasticity; Polyploidy; Reproductive Ecology; Community assembly; Antheridiogen; Allelopathy
Irina I. Gureyeva	Taxonomy; Morphology; Biology of ferns of Siberia and Russia, especially taxonomy of <i>Pteridium</i> and morphology of the fern spores
Christopher H. Haufler	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

Andreas Hemp	Vegetation ecology
Elisabeth A. Hooper	Fern systematics; <i>Aleuritopteris</i>
Karsten Horn	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>
Peter H. Hovenkamp	Polypodiaceae; Nephrolepidaceae; Oleandraceae; Woodsiaceae; Saccolomataceae; Ferns of Sulawesi; Flora Malesiana; Flora of China
Ana M. Ibars	Conservation; Fern spore bank; Germination
Filippo Imperato	Chemistry of flavonoids and other phenolics of ferns
Kunio Iwatsuki	Flora of East and Southeast Asia; Hymenophyllaceae; Conservation
Mirkka Jones	Determinants of plant community composition and diversity; Ecology of neotropical ferns
Masahiro Kato	Tropical fern flora; Morphological evolution of vascular plants; Speciation and adaptation of rheophytes; Evolution of apogamous ferns
Michael Kessler	Biodiversity and biogeography of tropical montane forests, including pteridophytes; Flora of Bolivian pteridophytes
Johanna H.A. van Konijnenburg-van Cittert	Evolution of fossil fern families, especially Dipteridaceae
S.P. Khullar	Fern floristics; Taxonomy; Cytology and morphology
Yves Krippel	Distribution of pteridophytes in Luxembourg
Siro Kurita	Speciation; Karyotype evolution; Systematics
Brij Lal	Inventory, conservation, and documentation of pteridophyte-associated traditional knowledge of Indian Himalayan region in particular
Marco Landi	Population ecology
Marcus Lehnert	Taxonomy, phylogeny, ecology and biogeography of pteridophytes; Special expertise in tree ferns
Ilia J. Leitch	Evolution of genome size and karyotype diversity in plants
Blanca León	Taxonomy of neotropical Polypodiaceae, Andes and Peruvian ferns
Bai-Ling Lin	Development; Hormone signaling; Genomics

Stuart Lindsay	Pteridophytes of Thailand, Laos and Cambodia; Vittariaceae of Southeast Asia; Gametophyte biology/ecology; Multi-access keys
David H. Lorence	Pteridophytes of Polynesia, Micronesia, Mascarenes
Kay Lynch	Propagation and conservation of Hawaiian native ferns
P.V. Madhusoodanan	Pteridophytes and bryophytes of South India; <i>Azolla</i> species and Cyanobacteria as biofertilizers
Fernando Matos	The flora of Bahia; the genus <i>Elaphoglossum</i> (Dryopteridaceae); The biology of ferns and lycophytes
Sadamu Matsumoto	Cytotaxonomic study of ferns, especially <i>Cyrtomium</i> , <i>Asplenium</i> , and <i>Pteris</i> ; Pteridophyte flora of Southern Pacific Islands, Bhutan, Taiwan
J. Mitchell McGrath	Plant breeding; Molecular cytogenetics; Gene duplication
Klaus Mehlretter	Fern ecology; Phenology; Herbivory; Interactions with insects; Invasive species
Aniceto Mendoza Ruiz	Pteridophytes of Mexico; Taxonomy, floristics, cultivation and propagation of ferns
Jordan Metzgar	<i>Cryptogramma</i> ; Phylogenetics; Polyploidy; <i>Azolla</i> ; Osmundaceae
John Mickel	Pteridoflora of Mexico; Monographic studies of <i>Anemia</i> and <i>Elaphoglossum</i>
Vlastimil Mikolas	<i>Polypodium</i> ; <i>Asplenium trichomanes</i> agg.; <i>Dryopteris</i> ; <i>Equisetum</i> and ferns of Oceania
James D. Montgomery	<i>Dryopteris</i> in North America and Mexico; Ferns of Pennsylvania and New Jersey; Ecology of <i>Botrychium</i>
Robbin C. Moran	Taxonomy, biogeography, phylogeny and evolution of ferns and lycophytes
Claudine C. Mynssen	<i>Diplazium</i> ; Brazilian flora
Narumi Nakato	Chromosomes; Polyploidy; Hybridization; Speciation
Maite Niño	Selaginellaceae; Lycopodiaceae; Polypodiaceae (including Grammitidaceae); Fern culture; Ecology
Benjamin Øellgaard	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

Sue Olsen	Testing ferns for hardiness and ornamental value and introducing ferns to the public
Leticia Pacheco	Systematics of <i>Diplazium</i>
Christopher Page	Biology and ecology of Pteridophyta; Biogeography; Distribution; Insular floras; Paleobotany; <i>Equisetum</i> ; Patterns, principles, processes and dynamics in pteridophyte ecosystems and their evolution
Santiago Pajarón	Reproductive biology; Population genetics; Systematics and evolution
Daniel Palmer	Hawaiian ferns
Barbara Parris	Monographic studies of Grammitidaceae; Systematics, ecology and phytogeography of Old World pteridophytes particularly in tropical and south temperate regions
Alison Paul	Pteridophyte curation; Macaronesian and European pteridophytes
James H. Peck	Pteridophyte flora of Arkansas
Ana L. Pereira	Biological activity of extracts; Plant-cyanobacteria symbioses; Phylogeny; Cyanotoxins; Proteomics; Phytoremediation; Ecotoxicology of plants by cyanotoxins
Krzysztof Piątek	Fern biogeography
Jefferson Prado	Phylogeny, nomenclature, taxonomy, and geographical distributions of Pteridaceae; Pteridoflora in Brazil
Kathleen Pryer	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
N. Punetha	Morphology, taxonomy and biodiversity of Central Himalayan ferns and lycophytes
Anshita Raj	Phytoremediation; Arsenic; <i>Pteris vittata</i> gametophytes
K.P. Rajesh	Ecology, taxonomy and conservation of bryophytes and pteridophytes of Western Ghats
R.G.H. Rani	Tree ferns
Tom A. Ranker	Systematics, ecology and evolution of tropical ferns
Karen Renzaglia	Morphology; Development; Reproduction; Ultrastructure
Edgardo Santiago Rivera	Tropical ferns

Gar W. Rothwell	Phylogeny of land plants
Kai Runk	Comparative biology and ecology of Estonian <i>Dryopteris</i> ; Cultivation of hardy ferns in Estonia, especially <i>Polystichum</i> and <i>Phyllitis scolopendrium</i> and their cultivars; Hardy East Asian fern species
Arthur E. Salgado	Taxonomy of Southeast Asian ferns; the genus <i>Asplenium</i> in the Philippines
Annette Schoelch	Construction morphology; Development of the sporophyll, sporangia, and sori in ferns; Evolution and phylogeny of ferns
Eric Schuettpelz	Evolution, diversification and systematics of pteridophytes, especially the leptosporangiate fern family Pteridaceae
David Schwartz	Cheilanthesoid ferns
Kakali Sen	Evolutionary biology of ferns and lycophytes
Wen Shao	Fern embryology; Pteridophyte taxonomy; Polypodiaceae; <i>Phymatopteris</i>
B.D. Sharma	Morphology, anatomy, phytochemistry and experimental studies on pteridophytes; Paleobotany of Mesozoic and tertiary plants
Joanne M. Sharpe	Tropical and temperate fern life histories; Long-term studies of demography of tropical pteridophytes; Ecology of rheophytes and New England ferns
Judith E. Skog	Fern evolution and phylogeny, especially basal ferns - Osmundaceae, Schizaeaceae, Matoniaceae; Relationships with fossil ferns
Alan R. Smith	Phylogeny of pteridophytes; Phylogeny of Polypodiaceae/Grammitidaceae; Floristics of Mexican, Venezuelan and Bolivian ferns and allies; Phytogeography of ferns
V.K. Sreenivas	Molecular phylogeny; Taxonomy; <i>Pteris</i>
Michizo Sugai	Photocontrol of spore germination; Sex organ differentiation
John A. Thomson	Taxonomy, evolution and secondary metabolics of <i>Pteridium</i> ; Bracken fern/insect interactions
Alejandra Vasco	Neotropical pteridophyte taxonomy; <i>Elaphoglossum</i>
Olena V. Vasheka	Fern introduction, cultivation of temperate-zone ferns in Ukraine; Pteridophyte conservation
David H. Wagner	Ferns of the Pacific Northwest; <i>Polystichum</i> ; <i>Botrychium</i> ; Photomicrography

Florence S. Wagner	Cytology and hybridization in pteridophytes; Monograph of <i>Botrychium</i> ; Hawaiian pteridophyte flora; Cytology and paraphyses of Hawaiian pteridophytes; Bibliography of Hawaiian pteridophytes
Yasuyuki Watano	Speciation; Apogamy; Intragametophytic selfing; Allopolyploidy
James E. Watkins, Jr.	Fern ecology; Ecophysiology; Reproductive/gametophyte biology
Richard A. White	Vascular plant anatomy and morphology; Systematics and anatomy of the tree ferns (Dicksoniaceae and Cyatheaceae) and allies
Dean P. Whittier	Morphology and development of fern gametophytes; Development of gametophytes of the Ophioglossaceae, Psilotaceae and Lycopodiaceae
Kenneth A. Wilson	Hawaiian alien ferns; Pteridophyte sporangial morphology
Michael D. Windham	Cytology and phylogeny of ferns; Cheilanthoid ferns
Paul Wolf	Molecular systematics; Population genetics; Fern phylogeny; Fern genomics
George Yatskiewych	Systematics of cheilanthoid ferns; Floristics of US (especially Missouri) and Mexico; Conservation
Xian-Chun Zhang	Ferns of the Himalayan region and Southeast Asia
Aurora Zlotnik	Fern anatomy; Plant stomata

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