

# Systematics and Biodiversity

Volume 14 | Numbers 4–6 | July–December 2016

ISSN 1477-2000



NATURAL  
HISTORY  
MUSEUM



Taylor & Francis  
Taylor & Francis Group

# Systematics and Biodiversity

Contents Volume 14 | Numbers 4–6 | July–December 2016

## Issues 4–6

### Articles

- 315 Editorial changes: Thank you and welcome  
*Elliot Shubert*
- 316 Taylor & Francis Prize 2015  
*Elliot Shubert*
- 317 Unrooted trees discovered independently in phylogeny and phylogenetics: a remarkable case of methodological convergence  
*Mári De Pinna, Flávio A. Bockmann and René Zaragueta I Bagils*
- 327 Plant communities and environmental factors in the Guayana Highlands: monitoring for conservation under future climate change  
*Elisabet Safont, Teresa Vegas-Villarrúbia, Valenti Rull, Bruce K. Holst, Otto Huber, Shingo Nozawa, Yuribia Vivas, Xavier Font and Argelia Silva*
- 345 Genetic structure and barcode identification of an endangered orchid species, *Liparis loeselii*, in Poland  
*Justyna Wilińska-Szymańska, Katarzyna Buczkowska, Maria Drapikowska, Małgorzata Maślak, Alina Baćzkiewicz and Andrzej Czyłok*
- 355 Factors affecting the distribution and abundance of orchids in grasslands and herbaceous wetlands  
*Vladan Djordjević, Spyros Tsiftsis, Dimitar Lakušić, Slobodan Jovanović and Vladimir Stevanović*
- 371 Integrative taxonomy of new firefly taxa from the Atlantic Rainforest  
*Luiz Silveira, Gabriel Khattar, Paula Souto, José Ricardo M. Mermudes, Daniela M. Takiya and Ricardo F. Monteiro*
- 385 Deserters of *Cremnops desertor* (Hymenoptera: Braconidae: Agathidiinae): Delimiting species boundaries in the *C. desertor* species-complex  
*Erika M. Tucker and Michael J Sharkey*
- 394 Species complex or complex species? Integrative taxonomy of the land snail genus *Rossmasseleria* (Gastropoda, Helicidae) from Morocco and Gibraltar  
*Frank Walther, Marco T. Neiber and Bernhard Hausdorf*
- 417 Unravelling cryptic species of freshwater snails (Caenogastropoda, Truncatelloidea) in the Loa River basin, Atacama Desert  
*Gonzalo A. Collado, Moisés A. Valladares and Marco A. Méndez*
- 431 Natural taxonomic categories of angiosperms obey Benford's law, but artificial ones do not  
*Lucía Campos, A. Enrique Salvo and Antonio Flores-Moya*
- 441 Genetic diversity of *Kappaphycus* species (Gigartinales, Rhodophyta) in the Philippines  
*Richard V. Dumilag, Fredmoor L. Orsoco and Arturo O. Lluisma*
- 452 Taxonomy and molecular systematics of three oligotrich (s.l.) ciliates including descriptions of two new species, *Strombidium guangdongense* sp. nov. and *Strombidinopsis sinicum* sp. nov. (Protozoa, Ciliophora)  
*Weili Liu, Dapeng Xu, Honggang Ma, Saleh A. Al-Farraj, Alan Warren and Zhenzhen Yi*
- 466 Integrative taxonomy of *Peniculus*, *Metapeniculus*, and *Trifur* (Siphonostomatida: Pennellidae), copepod parasites of marine fishes from Chile: species delimitation analyses using DNA barcoding and morphological evidence  
*Raúl Castro-Romero, Martín M. Montes, Sergio R. Martorelli, Diego Sepulveda, Silvia Tapia and Andres Martinez-Aquino*
- 484 Molecular evidence for cryptic species in *Pteroclava krempfi* (Hydrozoa, Cladocorynidae) living in association with alcyonaceans  
*Davide Maggioni, Simone Montano, Davide Seveso and Paolo Galli*
- 494 Taxonomic differentiation of *Cupressus sempervirens* and *C. atlantica* based on morphometric evidence  
*Katarzyna Śkłekiewicz, Krystyna Boratyńska, Małgorzata Boń-Dagher-Kharat, Tolga Ok and Adam Boratyński*
- 509 The fauna of the South China Sea includes unknown horrid species: new records of larvae and adults  
*Elena N. Temereva, Tatiana V. Neretina and Alexandra N. Stupnikova*
- 525 A new quality management perspective for biodiversity conservation and research: Investigating Biospecimen Reporting for Improved Study Quality (BRISQ) and the Standard PRE-analytical Code (SPREC) using Natural History Museum and culture collections as case studies  
*Erica E. Benson, Keith Harding and Jacqueline Mackenzie-Dadds*
- 548 Complete chloroplast genomes of *Saccharum spontaneum*, *Saccharum officinarum* and *Miscanthus floridulus* (Panicoideae: Andropogoneae) reveal the plastid view on sugarcane origins  
*Dyfed Lloyd Evans and Shailesh Vinay Joshi*
- 572 The distribution of cultivated species of *Porophyllum* (Asteraceae) and their wild relatives under climate change  
*Ana Susana Estrada, Enrique Ortiz, José Luis Villaseñor and Francisco J. Espinosa-García*
- 583 Insights into the Andean genera *Bridgesia* and *Guindilia* (Sapindaceae): an integrated approach  
*Juan D. Urdampilleta, Juan P. Coulier and María S. Ferrucci*
- 599 DNA barcodes as a tool in biodiversity research: testing pre-existing taxonomic hypotheses in Delphic Apollo butterflies (Lepidoptera, Papilionidae)  
*V. A. Lukhtanov, A. Sourakov and E. V. Zakharov*
- 614 Reviewer Acknowledgements  
*Elliot Shubert*



Taylor & Francis  
Taylor & Francis Group

