

Carlos Alonso Maya Lastra

Curriculum Vitae

website: <http://camayal.info/>
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PROFESSIONAL EDUCATION

Institute of Ecology A.C. (Mexico)

Ph.D. in Science (August 2018)

Dissertation title: Untouchables: taxonomy and evolutionary history of *Cnidoscolus* (Euphorbiaceae).

Advisor: Ph.D. Victor W. Steinmann

Institute of Ecology A.C. (Mexico)

Master in Science (August 2014)

Thesis title: Evolutionary history and taxonomy of the *Euphorbia polycarpa* complex (Euphorbiaceae).

Advisor: Ph.D. Victor W. Steinmann

University of Quindío (Colombia)

Bachelor in Biology and Environmental Education (September 2007)

Thesis title: Taxonomic inventory of the family Euphorbiaceae in the Quindío department (Colombia). **Laureate thesis.**

Advisor: Ph. D. Carlos Alberto Agudelo Henao

PROFESSIONAL APPOINTMENTS

Angelo State University, Dept. of Biology (US)

August 2023 – present

Assistant professor

SAT herbarium curator, ASNHC

Director of the Biology Greenhouse

Yale University, Dept. of Ecology and Evolutionary biology, Edwards Lab. (US)

July 2022 – August 2023

Postdoctoral Associate at Dr. Erika Edwards lab. Researching parallel evolution of *Viburnum* using phylogenomics and studying the genome of *Viburnum lautum*.

Columbia University, Dept. of Ecology, Evolution and Environmental Biology (US)

January 2022 – May 2022

Lecturer. Teaching Computational Phylogenetics.

Columbia University, Dept. of Ecology, Evolution and Environmental Biology, Eaton Lab. (US)

February 2019 – June 2022 **Postdoctoral Scientific Researcher** at Dr. Deren Eaton Lab. Researching evolution of reproductive isolation using computational genomics approaches and their application to empirical data.

Administrative Department of Science, Technology, and Innovation (Colombia) and University of Quindío (Colombia)

March 2010 – March 2011 **Young researcher**. Main researcher of the project titled “Evaluación Palinológica de tres especies Forestales Amenazadas de la Flora Andina Colombiana.”

The United Nations Development Programme (UNDP) and National Federation of Coffee Growers of Colombia

November – December 2009 **Botanist**. In charge of fast characterization of vegetation in the Quindío coffee, included in the project “Incorporación de biodiversidad en las zonas cafeteras de Colombia.”

University of Quindío (Colombia)

August – December 2006 **Herbarium assistant** in HUQ, involved as a student.

University of Quindío (Colombia)

January 2005 – July 2006 **Student researcher** in the project “Creation of a seed bank of native species from Quindío department.”

PREPRINTS

- **Maya-Lastra, C. A.**, Eaton, D. 2021. Genetic incompatibilities do not snowball in a demographic model of speciation. <https://www.biorxiv.org/content/10.1101/2021.02.23.432472v1>

PUBLICATIONS

1. Gilman, I.S., Heyduk, K., **Maya-Lastra, C. A.**, Hancock, L.P. and Edwards, E.J. (2024), Predicting photosynthetic pathway from anatomy using machine learning. *New Phytol.* <https://doi.org/10.1111/nph.19488>
2. Donoghue, M. J., Eaton, D., **Maya-Lastra, C. A.**, Landis, M. J., Sweeney, P. W., Olson M., Cacho, N. I., Moeglein, M. K., Gardner, J. R., Heaphy, N. M., Castorena, M., Segovia-Rivas, A., Clement, W. L. & Edwards, E. J. 2022. Replicated radiation of a plant clade along a cloud forest archipelago. *Nat. Ecol. Evol.* 6: 1318-1329. <https://doi.org/10.1038/s41559-022-01823-x>
3. **Maya-Lastra, C. A.**, Alvarado-Cárdenas, L. O., Rodríguez-Gómez, F. del C., Urrea-Galeano, L. A., Villaseñor, J. L., & Ruiz-Sanchez, E. 2022. The Mexican flora as a case study in systematics: A meta-analysis of GenBank accessions. *Botanical Sciences* 100: S66-S82. <https://doi.org/10.17129/botsci.3061>
4. Simbrón-Romero, D., **Maya-Lastra, C. A.**, Lara-Cabrera, S. I. 2022. Evaluación bioinformática de datos Hyb-Seq para tres especies de *Salvia* subgénero *Calosphace* (Lamiaceae). *Ciencia Nicolaita* 86: 69-83. <https://doi.org/10.35830/cn.vi86.689>

5. The Brazil Flora Group 2021* (B.F.G. 2021). 2021. Brazilian Flora 2020: Leveraging the power of a collaborative scientific network. *Taxon* 71: 178-198.
<https://doi.org/10.1002/tax.12640>
6. Steinmann, V. W., Ferrucci, M. S. & **Maya-Lastra, C. A.** 2022. Phylogenetics of *Serjania* (Sapindaceae-Paullinieae), with emphasis on fruit evolution and the description of a new species from Michoacán, Mexico. *Syst. Biodivers.* 20: 1-21.
<https://doi.org/10.1080/14772000.2022.2030425>
7. Lara-Cabrera, S. I., Pérez-García, M. L., **Maya-Lastra, C. A.**, Montero-Castro, J. C., Godden, G.T., Cibrián-Jaramillo, A., Fisher, A. E. & Porter, J. M. 2021. Phylogenomics of *Salvia* L. subgenus *Calosphace* (Lamiaceae). *Front. Plant Sci.* 12: 725900.
<https://doi.org/10.3389/fpls.2021.725900>
8. Rodríguez-Gómez, C. F., Vázquez, G., **Maya-Lastra, C. A.**, Aké-Castillo, J. A., Band-Schmidt, C. J., Moreno-Casasola, P., & Rojas-Soto, O. 2021. Potential distribution of the dinolagellate *Peridinium quadridentatum* and its blooms in continental shelves globally: an environmental and geographic approach. *Marine Biology* 168:29.
<https://doi.org/10.1007/s00227-021-03825-y>
9. **Maya-Lastra, C. A.**, Torres, D.S.C., Cordeiro, I. & Silva, O.L.M. 2020. *Cnidoscolus* in Flora do Brasil 2020. Jardim Botânico do Rio de Janeiro. Available at:
<http://floradobrasil.jbrj.gov.br/reflora/floradobrasil/FB17491>
10. **Maya-Lastra, C. A.** & Steinmann, V. W. 2019. Evolution of the untouchables: phylogenetics and classification of *Cnidoscolus* (Euphorbiaceae). *Taxon* 68(4): 692-713.
<https://doi.org/10.1002/tax.12093>
11. Ruiz-Sanchez, E., **Maya-Lastra, C. A.**, Steinmann, V. W., Zamudio, S., Carranza, E., Murillo, R. M., & Rzedowski, J. 2019. Datatata: a new script to extract metadata sequence information from GenBank, the Flora of Bajío as a case study. *Botanical Sciences* 97(4):754-760. <https://doi.org/10.17129/botsci.2226>
12. **Maya-Lastra, C. A.** & Steinmann, V. W. 2019. Novelty in Mexican *Cnidoscolus* sect. *Calyptosolen* (Euphorbiaceae). *Systematic Botany*, 44(2):339-345.
<https://doi.org/10.1600/036364419X15562052252081>
13. **Maya-Lastra, C. A.** & Steinmann, V. W. 2018. A Nomenclator of *Cnidoscolus* (Euphorbiaceae). *Phytotaxa* 346 (1): 1–30. <https://doi.org/10.11646/phytotaxa.346.1.1>
14. **Maya-Lastra, C. A.** Porter, J. Mark & Steinmann, V. W., 2017. Evolutionary History and Taxonomy of the *Euphorbia polycarpa* Complex (*Euphorbia* subg. *Chamaesyce* sect. *Anisophyllum*, Euphorbiaceae). *Systematic Botany*, 42 (2): 257–270.
<https://doi.org/10.1600/036364417X695565>
15. **Maya-Lastra, C. A.** 2016. ColectoR, a Digital Field Notebook for Voucher Specimen Collection for Smartphones. *Applications in Plant Sciences*, 4(7):1600035.
<https://doi.org/10.3732/apps.1600035>
16. The Brazil Flora Group* (B.F.G.). 2015. Growing Knowledge: An Overview Of Seed Plant Diversity In Brazil. *Rodriguésia* 66(4): 1085–1113. <https://doi.org/10.1590/2175-7860201566411>
17. **Maya-Lastra, C. A.** & Steinmann, V. W. 2015. Two new species of *Euphorbia* subg. *Chamaesyce* (Euphorbiaceae) from Baja California Sur, Mexico, and their phylogenetic relationships. *Phytotaxa*, 221 (3): 265–278. <https://doi.org/10.11646/phytotaxa.221.3.4>
18. Cordeiro, I., Caruzo, M. B. R., Pscheidt, A. C. & **Maya-Lastra, C. A.** 2011. Euphorbiaceae. In: Wanderley, M. G. L. et al. (eds.) Checklist of Spermatophyta of the São Paulo state, Brazil. *Biota Neotrop.* 11(1a): 259–263.

19. **Maya-Lastra, C. A.** & Agudelo H., C. A. 2011. Euphorbiaceae del Quindío. Ed. Universidad del Quindío. ISBN 978-958-8593-17-3. 80 pp.
20. **Maya-Lastra, C. A.** & Agudelo H., C. A. 2010. Lista anotada de las especies de Euphorbiaceae para el Quindío. *Rev. Invest. Univ. Quindío* (20): 126–136.
21. **Maya-Lastra, C. A.** & Secco, R. 2010. *Dalechampia* (Euphorbiaceae). In: Campostrini, R. et al. (eds.) 2010. *Catálogo de Plantas e Fungos do Brasil*. Instituto de Pesquisas Jardim Botânico do Rio de Janeiro. 2: 976-978. ISBN 978-85-88742-43-7.
22. Cordeiro, I., Secco, R. & **Maya-Lastra, C. A.** 2010. *Tragia* (Euphorbiaceae). In: Campostrini, R. et al. (eds.) 2010. *Catálogo de Plantas e Fungos do Brasil*. Instituto de Pesquisas Jardim Botânico do Rio de Janeiro. 2: 989. ISBN 978-85-88742-43-7.
23. **Maya-Lastra, C. A.** & Agudelo H., C. A. 2009. Estudio taxonómico de la familia Euphorbiaceae en el Quindío (Extenso). *Revista De La Asociación Colombiana De Ciencias Biológicas* 21: 156–173. ISSN 0120-4173

* I am member of the Brazil Flora Group (BFG) since 2010, acting as specialist in several genera of Euphorbiaceae family

SOFTWARE AND SCRIPTS FOR BIOLOGICAL USES

1. **Maya-Lastra, C. A.** & Edwards, E. Phyloweld, tool to consolidate and merge diverse DNA datasets from different library preparation for Evolutive and Phylogenetic studies. Coded in Python. In development.
2. **Maya-Lastra, C. A.** & Eaton, D. 2021. SuperMCC, multiple parallelizable distribution of BPP over subclades of a larger tree to summarize divergence time estimates into a super-species-tree. Coded in Python. In development.
3. **Maya-Lastra, C. A.** 2020. TreeToM. A simple tool for visualizing phylogenetic trees onto a map. Coded in Javascript. <https://camayal.info/wa/treetom/>
4. **Maya-Lastra, C. A.** & Eaton, D. 2019 – 2020. dmiSim. Set of scripts for simulating realistic populations to study how demographic parameters influence Dobzhansky and Muller incompatibilities evolution in SLiM framework and result visualization. Coded in Eidos, Python, and R. <https://github.com/camayal/DMISimulations>
5. **Maya-Lastra, C. A.** & Eaton, D. 2019 – 2020. dmiGenerator. A program that allows generating theoretical Dobzhansky and Muller incompatibilities among a given number of genes. Coded in Python. <https://github.com/camayal/dmiGenerator>
6. **Maya-Lastra, C. A.** 2016 – 2019. Datataxa. Script for automatic metadata extraction from GenBank sequences using Entrez database API and classification based on the kind of study where the sequences were used. Coded in *AutoIt*. <http://camayal.info/scripts.htm>
7. **Maya-Lastra, C. A.** 2014 – 2019. ColectoR. Digital Field Notebook for Voucher Specimen Collection for Smartphones. Coded in *Javascript*. <http://camayal.info/colector.htm>
8. **Maya-Lastra, C. A.** 2017. ConvertFileUsingAlterAPI. Script to convert sequence files easily using ALTER API. Coded in *Python*. <http://camayal.info/scripts.htm>
9. **Maya-Lastra, C. A.** 2017. FastChangeNames. Provides an alternative for non-familiar users of terminal or console to change names in files like phylogenetic trees, matrixes, and others. Coded in *AutoIt*. <http://camayal.info/scripts.htm>
10. **Maya-Lastra, C. A.** 2016. M.I.C. (Manual Image Classify). Small application to facilitate the classification or taking data (notes) from images. Coded in *AutoIt*. <http://camayal.info/scripts.htm>

11. **Maya-Lastra, C. A.** 2016. HerbivoryScript for ImageJ. Macro to conduct an assisted herbivory area analysis in leaves using images and color threshold functions on ImageJ. Coded in: *ImageJ Macro Language*. <http://camayal.info/scripts.htm>
12. **Maya-Lastra, C. A.** 2014. ChecklistBuilder. Software that assists the botanist in the checklist creation, permitting integration of information from a raw database into a printable report with a customizable format and layout. Coded in: *Neobook Script*. <http://camayal.info/checklistbuilder.htm>
13. **Maya-Lastra, C. A.** 2007. SinóptiK. An identification key for Euphorbiaceae species found in the Department of Quindío (Colombia). Coded in: *Neobook script*. <http://camayal.info/sinoptik.htm>

ONGOING PROJECTS

- **Maya-Lastra, C. A.**, Donoghue, M. J., Sweeney, P. W., Edwards, E. J. Incipient speciation in *Viburnum* in the central Andes.
- **Maya-Lastra, C. A.**, Eaton, D. Functional annotation of *Viburnum lautum* genome (Adoxaceae).
- Medina-Rodríguez, M. D., **Maya-Lastra, C. A.**, **Cacho, N. I.** A genomic perspective on the historical range expansion of a Caribbean spurge
- **Maya-Lastra, C. A.**, Ruiz-Sanchez, E., Duputié, A. & Steinmann, V. W. Parallel diversification and biogeography of *Cnidoscolus* (Euphorbiaceae).
- **Maya Lastra, C. A.** & Steinmann, V. W. Behind complex evolutionary history *Cnidoscolus angustidens-maculatus*.

AWARDS

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| December 2014 | <i>Premio a la Excelencia Creativa y Espiritu Innovador 2014</i> , with the software: ColectoR: field notebook for easy collection of plant specimen data using smartphones . By Institute of Ecology A.C., Mexico. |
| June 2010 | <i>Cuatrecasas Fellowship Award 2010</i> , awarding a trip to U.S. herbarium to study Euphorbiaceae collection. By Smithsonian Institution. |
| October 2009 | <i>Premio Nacional Hernando Patiño</i> as best undergraduate work presented in XLIV Congreso Nacional de la Asociación Colombiana de Ciencias Biológicas. |

TEACHING EXPERIENCE

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| August – present | Assistant Professor, teaching General Botany and Plant taxonomy courses. Angelo State University. |
| January 2022 – May 2022 | Lecturer, teaching Computational phylogenetics . Columbia University in the City of New York. |

October 2019	Teaching assistant of RADcamp NYC 2019 workshop. Columbia University in the City of New York.
January – May 2018	Visiting professor of Bioinformatics . ENES (Morelia), National Autonomous University of Mexico.
April 2015	Teaching assistant of Techniques of phylogenetic reconstructions . Institute of Ecology A.C., Mexico.
January – December 2004	Teaching assistant of Plant morphology . University of Quindío, Colombia.
August – December 2003	Teaching assistant of Biology . University of Quindío, Colombia.

MENTORING EXPERIENCE

Jan. 2023 – Present	Co-advisor of PhD student María de Jesús Mendez Aguilar in the thesis “Estudio de la Domesticación de Chaya (<i>Cnidoscolus</i> spp.) en la Península de Yucatán.” Autonomous University of Yucatan (UADY).
Nov. 2020 – Dec. 2022	Co-advisor of Master student Max Demian Medina Rodríguez in the thesis “Filogenómica de la especie-anillo <i>Euphorbia tithymaloides</i> usando datos de RADseq.” The National Autonomous University of Mexico (UNAM).
June 2019 – March 2020	Co-advisor of Undergraduate student Daniel Simbron Romero in the thesis “Diferencias genéticas de tres complejos de especies en <i>Salvia</i> (Lamiaceae).” Michoacan University of Saint Nicholas of Hidalgo (UMSNH).
Sept.2018 – March 2019	Methodology advisor of Master student Luz Perez-Garcia in the thesis “Filogenómica de <i>Salvia</i> subgénero <i>Calosphace</i> (Lamiaceae).” Michoacan University of Saint Nicholas of Hidalgo (UMSNH)

FUNDING FOR SHORT VISITS TO RESEARCH INSTITUTIONS

February 2017. Student mobility fund of postgraduate office of Institute of Ecology A. C. to prepare libraries for RADSeq in Rancho Santa Ana Botanic Garden’s molecular laboratory. (USD 630)

January 2016. Student mobility fund of postgraduate office of Institute of Ecology A. C. to spend one semester in Rancho Santa Ana Botanic Garden. (USD 1.650)

February 2014. Student mobility fund of postgraduate office of Institute of Ecology A. C. to visit Rancho Santa Ana Botanic Garden. (USD 673)

August 2013. Student mobility fund of postgraduate office of Institute of Ecology A. C. to C.A.S., U.C. and R.S.A. herbaria. (USD 747)

December 2012. Extra support (Beca Mixta) given by CONACYT (Mexico) to learn D.N.A. sequencing techniques in Rancho Santa Ana Botanic Garden. (USD 1.275)

June 2010. Cuatrecasas Fellowship Award to visit U.S. herbarium: (USD 2.200)

July 2010. Funding for assistance X Latin American Botanical Congress given by The Latin American Plant Sciences Network. (USD 1.000)

February 2008. Scientific early career improvement (RLB08-P04) given by The Latin American Plant Sciences Network to visit the Institute of Botany of São Paulo for four months, Brazil. (USD 2.571)

SCHOLARSHIPS AND FELLOWSHIPS FOR PROFESSIONAL FORMATION

September 2014. **National scholarship for postgraduate studies CONACYT** (N° 391982, registry 280328) for a period of 48 months, given by The National Council on Science and Technology, Mexico, to course the Doctorate. (USD 47.000)

September 2012. **National scholarship for postgraduate studies CONACYT** (N° 345304, registry 280328) for a period of 23 months, given by The National Council on Science and Technology, Mexico, to course the Master degree. (USD 15.600)

December 2009. **Fellowship Virginia Gutierrez de Pineda**, as Young researcher and innovator, given by the Administrative Department of Science, Technology, and Innovation, founding 12 months for research work to study the pollen of three species found in Quindío (Colombia). (USD 8.400)

January 2007. **Academic Excellence Scholarship** of the Program of Bachelor in Biology and Environmental Education, due to the program's best academic score, given by the University of Quindío (Colombia).

August 2006. **Academic Excellence Scholarship** of the Program of Bachelor in Biology and Environmental Education, due to the program's best academic score, given by the University of Quindío (Colombia).

January 2006. **Academic Excellence Scholarship** of the Program of Bachelor in Biology and Environmental Education, due to the program's best academic score, given by the University of Quindío (Colombia).

August 2005. **Academic Excellence Scholarship** of the Program of Bachelor in Biology and Environmental Education, due to the program's best academic score, given by the University of Quindío (Colombia).

January 2005. **Academic Excellence Scholarship** of the Program of Bachelor in Biology and Environmental Education, due to the program's best academic score, given by the University of Quindío (Colombia).

August 2004. **Academic Excellence Scholarship** of the Program of Bachelor in Biology and Environmental Education, due to the program's best academic score, given by the University of Quindío (Colombia).

January 2004. **Academic Excellence Scholarship** of the Program of Bachelor in Biology and Environmental Education, due to the program's best academic score, given by the University of Quindío (Colombia).

January 2003. **Academic Excellence Scholarship** of the Program of Bachelor in Biology and Environmental Education, due to the program's best academic score, given by the University of Quindío (Colombia).

ADDITIONAL COURSES AND FORMATION

October 2017 *High-Throughput sequencing, assembly, and analysis for phylogenetic and evolutionary studies*. Offered by Universidad Michoacana de San Nicolás Hidalgo. Professor Ph.D. J. Mark Porter from Rancho Santa Ana Botanic Garden. (120 hours)

April 2013 *Temperate ecology for tropical students: Ecology of North Temperate Forests, Habitat Assessment, and Sustainability*. Offered by Powdermill Nature Reserve and Institute of Ecology A.C. Main professor Ph.D. John W. Wenzel. (120 hours)

February 2010 *Electronic microscopy course 2010*. Offered by Centro de Excelencia en Nuevos Materiales - University of Valle. (16 hours)

August 2007 *Application of software BRAHMS 6.0 to manage herbaria*. Offered by the postgraduate office of Science-Biology and Biology department of the University of Valle. Professor Ph.D. Michael Hopkins from INPA (Instituto Nacional de Pesquisas da Amazônia). (35 hours)

July 2005 *Bromeliaceae and Heliconiaceae workshop*. Offered by ACH (Asociación Colombiana de Herbarios). Professor Ph.D. Julio Betancourt from Instituto de Ciencias Naturales of National University of Colombia. (10 hours)

SHORT RESEARCH VISITS

Rancho Santa Ana Botanic Garden – RSA-POM herbarium (Claremont, California, US)

September 2017, May 2016, September, March, and January 2013. Learning of molecular techniques for extraction, amplification, and preparation of DNA for Sanger and High-throughput sequencing for phylogenetic studies. Under the supervision of Ph.D. Victor W. Steinmann and Ph.D. J. Mark Porter.

Institute of Botany of São Paulo – S.P. herbarium (São Paulo, SP – Brazil)

March 2008 – July 2008. Scientific early career improvement. Thanks to the Scholarship RLB08-P04, given by The Latin American Plant Sciences Network to conduct the research “Revisão dos gêneros *Bia*, *Dalechampia*, *Plukenetia*, *Romanoa* e *Tragia* (Euphorbiaceae s.s.) para o Estado de São Paulo (SP-Brasil)”. Under the supervision of Ph.D. Inês Cordeiro.

Smithsonian Institution – U.S. herbarium (Washington D.C., US)

November 2010 – December 2010. Short visit to study botanical collection of Euphorbiaceae, especially Plukenetieae tribe. Under the supervision of Ph.D. Kenneth Wurdack.

MEETING PRESENTATIONS

- July 2023 Talk in Botany 2023 conference (US)
Caught in the Act: Incipient Speciation at the Southern limit of Viburnum in the Central Andes
- July 2021 Talk in Botany 2021 conference (US)
SuperBPP: a new method for inferring large-scale time-calibrated species trees
- June 2021 Talk in Evolution 2021 meeting (US).
Genetic incompatibilities do not snowball in a demographic model of speciation
- July 2020 Poster in Botany 2020 conference (US).
TreeToM: A simple tool for visualizing phylogenetic trees onto a map
- July 2019 Talk and poster in Botany 2019. Tucson (US)
The untouchables: taxonomy and phylogenetics of Cnidoscolus (Euphorbiaceae)

ColectoR, a digital field notebook for voucher specimens collection for Android.
- October 2013 Poster in XIX Congreso Mexicano de Botánica. Tuxtla Gutiérrez (Mexico).
Estudio filogenético del complejo Euphorbia polycarpa (Euphorbiaceae) basado en marcadores de núcleo y cloroplasto.
- October 2010 Poster of two works in X Latin American Botanical Congress. La Serena (Chile).
Revisão dos gêneros de lianas da família Euphorbiaceae s.s. para o Estado de São Paulo – Brasil.
Estado preliminar de Dalechampia Plum. ex L. (Euphorbiaceae) para Colombia.
- October 2009 Talk in XLIV Congreso Nacional de la Asociación Colombiana de Ciencias Biológicas. Popayán (Colombia). **Awarded** with the National award Hernando Patiño.

Revisión taxonómica de la familia Euphorbiaceae Juss. para el departamento del Quindío - Colombia.

April 2007 Poster in IV Congreso Colombiano de Botánica. Medellín (Colombia).
Inventario de la familia Euphorbiaceae Juss. para el departamento del Quindío – Colombia.

PEER REVIEW ACTIVITY

- Adansonia
- Acta Brasiliensis
- Applications in Plant Sciences
- Biota Neotropica
- Ciencia Nicolaita (invited Editor)
- Ecology and Evolution
- Phytotaxa
- Systematic Botany