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University Degrees

Ph.D., Plant Breeding and Plant Genetics, University of Wisconsin-Madison, 1997.

M.S., Plant Breeding and Plant Genetics, University of Wisconsin-Madison, 1994.

B.A., History, University of Minnesota-Minneapolis, 1987.

Professional Experience

Executive Secretary and CEO, Global Biodiversity Information Facility (GBIF), Copenhagen Denmark. March 2019 – present.

- CEO of GBIF Secretariat of 27 staff and €3.5 million annual budget
- Lead strategic planning of global network of 59 nations, 19 participant organizations and 1,533 data publishers
- Oversee Biodiversity Information for Development program and global strategic biodiversity informatics capacity enhancement initiatives

Program Officer, Office of International Science and Engineering, Office of the Director, National Science Foundation, Arlington, VA. July 2016 – 2019.

- Manage international grant portfolio for NSF collaborations in southeast Asia
- Develop new interdisciplinary research grant funding opportunities
- Perform outreach to government agencies to promote international collaboration
- Monitor scientific and technical advances in portfolio countries

Program Officer, Systematics and Biodiversity Science Cluster, Division of Environmental Biology, National Science Foundation, Arlington, VA. 2013 – July 2016.

- Managed \$30M grant funding program in biodiversity science
- Analyzed trends in biological and data science that impact future scientific research.
- Provided recommendations on areas research funding and areas of emerging science
- Led Genealogy of Life research program, which seeks to integrate all biodiversity knowledge in an evolutionary framework
- Co-leader of biodiversity for the United States Earth Observation Assessment interagency working group
- Negotiated international research funding collaborations.
- Promoted science through outreach to professional societies, academia, international partners and the general public

Science Affiliate, Centre for Australian National Biodiversity Research, CSIRO National Research Collections Australia, Canberra, Australia. 2013 – present.

- Continue active research program with 37 publications since 2014

Senior Research Scientist, Research Group Leader, Centre for Australian National Biodiversity Research, CSIRO Plant Industry, Canberra, Australia. 2008 – 2013.

Acting Director, Centre for Australian National Biodiversity Research, CSIRO Plant Industry, Canberra, Australia. 2010 – 2011.

Program Leader, Centre for Australian National Biodiversity Research, CSIRO Plant Industry, Canberra, Australia. 2009 – 2011.

- Led research at the Australian National Herbarium
- Managed staff of 20 scientists, students, and support staff
- Managed multi-million dollar appropriation and external grant budgets
- Directed collaborative international research program on plant biodiversity assessment including DNA sequencing, DNA fingerprinting, GIS analysis of plants, Research collaborators are based in USA, Australia, China, South Africa, Argentina and Brazil
- Led integrated research program to design methods to identify and evaluate unique areas of plant biodiversity
- Mentored graduate students, postdoctoral researchers and junior scientists
- Wrote successful grant proposals to and delivered milestones on time to government and private sector funding bodies
- Published research results in peer-reviewed scientific publications.
- Delivered research findings at international conferences
- Conducted field work in Australia, Brazil, South Africa, China, Dominican Republic, Puerto Rico, and Mexico
- Organized two major international botanical symposiums and one scientific society meeting

Research Scientist, Roy J. Carver Center for Comparative Genomics, Department of Biological Sciences, The University of Iowa, Iowa City, IA. 2008.

- Managed staff of two and several undergraduate students
- Managed budget for full service genomic support and equipment service contracts
- Developed a comparative and functional genomics core laboratory from its inception to a high through-put DNA sequencing, microarray and bioinformatics facility for use by 25 research labs
- Wrote and managed successful research grants, both public and private sector funding, for the Center (\$1.5 million) and personal research program (\$200,000)

Assistant Research Scientist, Roy J. Carver Center for Comparative Genomics, Department of Biological Sciences, The University of Iowa, Iowa City, IA. 2001 – 2007.

Post-Doctoral Researcher, Centre for Plant Biodiversity Research, The Australian National Herbarium, CSIRO Plant Industry, Canberra, Australia. 1999 – 2001.

- Developed research program in plant biodiversity
- Acquired research and budgeting skills for professional development

Post-Doctoral Research Associate, Cytogenetics and Potato Breeding Laboratory, Department of Horticulture, University of Wisconsin. 1997 – 1998.

Research Assistant, Potato Taxonomy, USA-ARS, Vegetable Crops Research Unit, University of Wisconsin. (David M. Spooner, Graduate Adviser). 1992 – 1997.

Peace Corps Volunteer, Zumbagua, Ecuador. 1988 – 1990.

- Provided veterinary and soil conservation information and services to indigenous communities in the Andes
- Learned Spanish to a proficient level, which I maintain

External Research Funding

Deep Sequencing of *Eucalyptus* series globulares to unravel its hybrid history. Ignition Grants from the Centre for Biodiversity Analysis. November 2012 – October 2013. AUD\$5,000.

Application of Network Theory and Systems Biology to the Rich Data of the CSIRO Biological Collections. CSIRO OCE Cutting Edge Symposium. December 2012. AUD\$30,000.

Clarifying the phylogeny and taxonomy of Australian riccioid and marchantioid liverworts through molecular data. Australian Biological Resources Study (ABRS) National Taxonomy Research Grant Program (NTRGP). November 2012 – October 2014. AUD\$135,000.

Bulahdelah Bypass Orchid Research Project-Extension. RTA Transport, Road and Marine Services. July 2011 – December 2012. AUD\$650,000.

Acacia systematics and development of a model system for co-evolutionary studies. Hermon Slade Foundation. July 2009 – June 2012. AUD\$60,000.

DNA Barcoding for Taxonomy. CERF Commonwealth Environmental Research Facilities. November 2009 – December 2010. AUD\$550,000.

Species Delimitation of Endangered Plants. CERF Commonwealth Environmental Research Facilities. November 2009 – December 2010. AUD\$100,000.

Understanding Mulga. Funding from BHP Billiton - Iron Ore, Nickel West, Rio Tinto Iron Ore & Fortescue Metals. October 2006 – September 2010. AUD\$540,000.

NSF-Systematic Biology, NSF-DEB 04-14902. Collaborative Research: Phylogeny and evolution of American taxa of *Acacia* subgenus *Acacia*. September 2004 – August 2007. \$193,615. REU supplements \$15,000.

Ecological Genomics of Insect-Induced Plant Galls. Biological Sciences Funding Program, University of Iowa. \$30,000. May 2007 – April 2008.

Miller Publications

92 publications

3897 career citations

H index = 36

<http://scholar.google.com.au/citations?user=aGfoizAAAAAJ>

1. Anne Bruneau, A., L.M. Borges, R. Allkin, A.N. Egan, M. de la Estrella, F. Javadi, B. Klitgård, **J.T. Miller**, D.J. Murphy, C. Sinou, M. Vatanparas, R. Zhang. In Press. Towards a new online species information system for legumes. *Australian Systematic Botany*.
2. Murphy, D.J., M.C. Ebach, **J.T. Miller**, S.W. Laffan, G. Cassis, V. Ung, A.H. Thornhill, N. Kerr, M.L. Tursky. 2019. Do phylogeographic patterns reveal biomes or biotic regions? *Cladistics*. 10.1111/cla.12381
3. Gallien, L., A.H. Thornhill, D. Zurella, **J.T. Miller**, D.M. Richardson. 2019. Global predictors of alien plant establishment success: combining niche and trait proxies. *Proceedings of the Royal Society B* 286: 20182477. <http://dx.doi.org/10.1098/rspb.2018.2477>
4. Thornhill, A.H., M.D. Crisp, C. Külheim, K.E. Lam, L.A. Nelson D.K. Yeates, and **J.T. Miller**. 2019. A dated molecular perspective of eucalypt taxonomy, evolution, and diversification. *Australian Systematic Botany*.
5. **Miller, J.T.**, R. Pirzl, D. Rosauer, G. Jolley-Rogers, and T. Varghese. 2018. Phylolink: Phylogenetically-based profiling, visualisations and metrics for biodiversity. *Bioinformatics*. doi: 10.1093/bioinformatics/xxxxx
6. **Miller, J.T.**, G. Jolley-Rogers, B.D. Mishler, and A.H. Thornhill. 2018. Phylogenetic Diversity is a Better Measure of Biodiversity than Taxon Counting. *Journal of Systematics and Evolution*. doi: 10.1111/jse.12436
7. Lu, L., L. Mao, T. Yang, J. Ye, B. Liu, H. Li, M. Sun, **J.T. Miller**, S. Mathews, H. Hu, Y. Niu, D. Peng, Y. Chen, M. Chen, K. Xiang, C.T. Le, V.C. Dang, A. Lu, P.S. Soltis, D.E. Soltis, J. Li and Z. Chen. 2018. Accepted. Evolutionary history of the angiosperm flora of China—cradle vs. museum? *Nature*. 554(7691):234-238. doi: 10.1038/nature25485
8. Marsh K.J., C. Kulheim, S.P. Blomberg, A.T. Thornhill, **J.T. Miller**, I.R. Wallis, D. Nicolle, J.P. Salminen and W.J. Foley. 2017. Genus-wide variation in foliar polyphenolics in eucalypts. *Phytochemistry*. 144: 197–207. doi:10.1016/j.phytochem.2017.09.014. PMID: 28957714.
9. Bush, A., R.A. Catullo, K. Mokany, A.H. Thornhill, **J.T. Miller** and S. Ferrier. 2017. Truncation of Thermal Tolerance Niches among Australian Plants. *Global Ecology and Biogeography*. DOI: 10.1111/geb.12637.
10. **Miller, J.T.**, V. Terra, C.W. Riggins, J.E. Ebinger, and D.S. Seigler. 2017. Molecular Phylogenetics of *Parasenegalia* and *Pseudosenegalia* (Fabaceae: Mimosoideae). *Systematic Botany*. 42: 465–469. <https://doi.org/10.1600/036364417X696140>.
11. Terra, V., C.P Flávia. Garcia, L.P. de Queiroz, M. van der Bank, and **J.T. Miller**. 2017. Phylogenetic Relationships in Senegalia (Leguminosae-Mimosoideae) Emphasizing the

South American Lineages. *Systematic Botany*. 42: 458–464.
<https://doi.org/10.1600/036364417X696122>.

12. Bui, E.N., A.H. Thornhill, C.E. González-Orozco, and **J.T. Miller**. 2017. Eucalypts, climate, and geochemistry in Australia. *Geobiology* 15: 427–440. doi: 10.1111/gbi.12235.
13. The Legume Phylogeny Working Group. 2017. A new subfamily classification of the Leguminosae based on a taxonomically comprehensive phylogeny. *Taxon*. 66: 44-77. <https://doi.org/10.12705/661.3>The Legume Phylogeny Working Group. 2017. A new subfamily classification of the Leguminosae based on a taxonomically comprehensive phylogeny. *Taxon*. 66: 44–77. <https://doi.org/10.12705/661.3>.
14. **Miller J.T.**, C. Hui, A.H. Thornhill, L. Gallien, J.J. Le Roux, and D.M. Richardson. 2017. The role of phylogenetic history and native range size in mediating the invasion success of exotic. *AoB PLANTS*. 9: plw080. <https://doi.org/10.1093/aobpla/plw080>.
15. Prentice, E., N. Knerr, A.N. Schmidt-Lebuhn, C.E. González-Orozco, E.N. Bui, S.W. Laffan and **J.T. Miller**. 2016. Soil and climate properties drive biogeography of the Australian Proteaceae. *Plant and Soil*. doi:10.1007/s11104-017-3261-6.
16. Laffan, S.W., A.H. Thornhill, **J.T. Miller**, N. Knerr, C.E. González-Orozco, and B.D. Mishler. 2016. Understanding spatial patterns of biodiversity: How sensitive is phylogenetic endemism to the randomisation model? *GIScience*. doi:10.21433/B3110cq8c6dd.
17. Seigler, D.S., J.E. Ebinger, C.W. Riggins, V. Terra dos Santos, and **J.T. Miller**. 2017. Parasenegalia and Pseudosenegalia (Fabaceae: Mimosoideae): New genera of the Mimosoideae. *Novon*. 25: 180–205.
18. McLeish, M.J., C.E. González-Orozco, and **Miller, J.T.** 2016. Spatial correspondence between the specialist galling insect genus Kladothrips (Thysanoptera: Tubulifera: Phlaeothripidae) and its Acacia host: ecological and evolutionary constraints on host use. *Austral Entomology*. doi:10.1111/aen.12256.
19. González-Orozco C.E., L.J. Pollock, A.H. Thornhill, B.D. Mishler, N. Knerr, S.W. Laffan, **J.T. Miller**, D.F. Rosauer, D.P. Faith, and D.A. Nipperess. 2016, Phylogenetic approaches reveal biodiversity threats under climate change. *Nature Climate Change*. **537**: 453 <http://dx.doi.org/10.1038/nclimate3126>.
20. Laffan, S.W., D.F. Rosauer, G. Di Virgilio, **J.T. Miller**, González-Orozco, C.E, A. H. Thornhill, A.H., and B.D. Mishler, 2016. Range-weighted metrics of species and phylogenetic turnover can better resolve biogeographic transition zones. *Methods in Ecology and Evolution* 7: 580–588. <http://dx.doi.org/10.1111/2041-210X.12513>.
21. Thornhill, A.H., B.D. Mishler, N.J. Knerr, González-Orozco, C.E, C.M. Costion, D.M. Crayn, S.W. Laffan, and **J.T. Miller**. 2016. Continental scale spatial phylogenetics of Australian angiosperms provides insights into ecology, evolution and conservation. *Journal of Biogeography*. 43: 2085–2309 doi:10.1111/jbi.12797.
22. Barrett, L.G., P.C. Zee, J.D. Bever, **J.T. Miller**, and P.H. Thrall. 2016. Evolutionary history shapes patterns of mutualistic benefit in *Acacia* rhizobial interactions. *Evolution* 70:1473–C85. doi: 10.1111/evo.12966.
23. Williams A.V., **J.T. Miller**, I. Small, P.G. Nevill, and L.M. Boykin. 2016. Integration of complete chloroplast genome sequences with small amplicon datasets improves phylogenetic resolution in *Acacia*. *Molecular Phylogenetics and Evolution*. DOI:

10.1016/j.ympev.2015.11.021.

24. González-Orozco, C.E., B.D. Mishler, **J.T. Miller**, S.W. Laffan, N.J. Knerr, A.H. Thornhill and B. Gruber. 2015. Phylogenetic diversity, paleo-endemism, and neo-endemism in *Acacia* and eucalypts in the Murray-Darling Basin, south-eastern Australia: a strategy for conservation prioritization. **Biodiversity and Conservation** 5: 5177–5192 doi: 10.1002/ece3.1747.
25. González-Orozco, C.E., B.D. Mishler, **J.T. Miller**, S.W. Laffan, N.J. Knerr, P. Unmack, A. Georges, A.H. Thornhill, D.F. Rosauer and B. Gruber. 2015. Assessing biodiversity and endemism using phylogenetic methods across multiple taxonomic groups. *Ecology and Evolution*. DOI: 10.1002/ece3.1747.
26. Ebach, M.C., D.J. Murphy, C.E. González-Orozco and **J.T. Miller**. 2015. A revised area taxonomy of phytogeographical regions within the Australian Bioregionalisation Atlas. *Phylotaxa*. <http://dx.doi.org/10.11646/phytotaxa.00.0.0>
27. Nagalingum, N.S., N. Knerr, S. Laffan, C.E. González-Orozco, A. Thornhill, **J.T. Miller**, and B.D. Mishler. 2015. Continental scale patterns and predictors of fern richness and phylogenetic diversity. *Frontiers in Genetics*. 6: 1–14 <http://dx.doi.org/10.3389/fgene.2015.00132>.
28. Clements, M.A., C.G. Howard, and **J.T. Miller**. 2015. *Caladenia* (Orchidaceae) revisited: results of molecular phylogenetic analyses of *Caladeniinae* plastid and nuclear loci. *American Journal of Botany*. 102: doi: 10.3732/ajb.1500021.
29. Laity T., S.W. Laffan, C.E. González-Orozco, D.P. Faith, D.F. Rosauer, M. Byrne, **J.T. Miller**, D. Crayn, C. Costion, C.C. Moritz, and K. Newport. 2015. Phylodiversity to inform conservation policy: An Australian example. *Sci Total Environ*. 534: 131–43. doi: 10.1016/j.scitotenv.2015.04.113.
30. Schmidt-Lebuhn, A.N., N.J. Knerr, **J.T. Miller** and B.D. Mishler. 2015. Phylogenetic diversity and endemism of Australian daisies (Asteraceae). *Journal of Biogeography*. 42: 1114–1122. DOI: 10.1111/jbi.12488.
31. Pollock, L., J.D. Rosauer, A.H. Thornhill, H. Kujala, M. D. Crisp, **J.T. Miller** and M.A. McCarthy. 2015. Phylogenetic diversity meets conservation policy: small areas are key to preserving eucalypt lineages. *Philosophical Transactions of the Royal Society*. DOI: 10.1098/rstb.2014.0007.
32. **Miller, J.T.**, D. Seigler and B.D. Mishler. 2014. A phylogenetic solution to the *Acacia* problem. *Taxon*. 59: 7–19.
33. **Miller, J.T.** and M.A. Clements. 2014. Molecular phylogenetic analyses of *Drakaeinae*: *Diurideae* (Orchidaceae) based on ITS. *Australian Systematic Botany*. 27: 3–22.
34. **Miller, J.T.** and G. Jolley-Rogers. 2014. Correcting the disconnect between phylogenetics and biodiversity informatics *Zootaxa* 3754 (2): 195–200.
35. **Miller, J.T.** and M. Burd. 2014. Australia's *Acacia*: Unrecognized convergent evolution. In "Invasion Biology and Ecosystem Theory; insights from a continent in transformation" eds. H. Prins & I. Gordon. Cambridge University Press, Cambridge.
36. Mishler, B.D., N.J. Knerr, C.E. González-Orozco, A.H. Thornhill, S.W. Laffan and **J.T. Miller**. 2014. Phylogenetic measures of biodiversity and neo- and paleo-endemism in Australian *Acacia*. *Nature Communications* 4473: DOI: 10.1038/ncomms5473.

37. Bui, E.N., A.H. Thornhill and **J.T. Miller**. 2014. Salt- and alkaline-tolerance are linked in *Acacia*. *Biology Letters* 10: 20140278.
38. Bui, E.N., C.E. González-Orozco and **J.T. Miller**. 2014. *Acacia*, climate, and geochemistry in Australia. *Plant Soil*. DOI 10.1007/s11104-014-2113-x
39. González-Orozco, C.E. , M.C. Ebach, S.W. Laffan, A.H. Thornhill, N.J. Knerr, A.N. Schmidt-Lebuhn, C.C. Cargill, M.A. Clements, N.S. Nagalingum, B.D. Mishler and **J.T. Miller**. 2014. Quantifying Phytogeographical Regions of Australia Using Geospatial Turnover in Species Composition. *PlosOne* 10.1371/journal.pone.0092558.
40. Jolley-Rogers, G., T. Varghese, P. Harvey, N. dos Remedios and **J.T. Miller**. 2014. PhyloJIVE: Integrating biodiversity data with the Tree of Life. *Bioinformatics*. 10.1093/bioinformatics/btu024.
41. Swarts N.D, M.A Clements, C.C. Bower and **J.T. Miller**. 2014. Defining conservation units in a complex of morphologically similar, sexually deceptive highly endangered orchids. *Biological Conservation*. 171: 55–64.
42. González-Orozco, C.E., A.H. Thornhill, S.W. Laffan, N.J. Knerr and **J.T. Miller**. 2014. Biogeographical regions and phytogeography of the eucalypts. *Diversity and Distributions*. 20: 46–58.
43. Joseph, L., D. Yeates, **J.T. Miller**, D. Spratt, D. Gledhill and A. Butler. 2014. Australia's biodiversity – major features. Chapter 2, pp 13–37, in Biodiversity, Morton, S. (ed.). CSIRO Publishing: Melbourne.
44. McLeish, M.J., **Miller, J.T.** and L.A. Mound. 2013. Delayed colonisation of *Acacia* by thrips and the timing of host-conservatism and behavioural specialisation. *BMC Evolutionary Biology*. 13: 188 doi:10.1186/1471-2148-13-188.
45. **Miller, J.T.**, D. Murphy, S. Y.W.Ho, D.J. Cantrill and D. Seigler. 2013. Comparative dating of *Acacia*: combining fossils and multiple phylogenies to infer ages of clades with poor fossil records. *Australian Journal of Botany* 61: 436–445.
46. Cargill, D.C., N. G. F. Vella, I. Sharma and **J.T. Miller**. 2013. Cryptic speciation and species diversity among Australian and New Zealand hornwort taxa of *Megaceros* campb. (dendrocerotaceae). *Australian Systematic Botany* 26: 356-377.
47. The Legume Phylogeny Working Group. (2013) Towards a new classification system for legumes: progress report from the ILC6. *South African Journal of Botany*. 89: 3–9. DOI: 10.1016/j.sajb.2013.07.02.
48. González-Orozco, C.E., S.W. Laffan, N. Knerr and **J.T. Miller**. 2013. A biogeographical regionalisation of Australian *Acacia* species. *Journal of Biogeography*. 40: 2156–2166. DOI: 10.1111/jbi.12153.
49. The Legume Phylogeny Working Group (2013) Legume phylogeny and classification in the 21st century: progress, prospects and lessons for other species-rich clades. *Taxon*. 62: 217–248.
50. Joseph, S., M. Bhave, **J.T. Miller** and D.J. Murphy. 2013. Rapid Identification of *Acacia* Species With Potential Salt Tolerance by Using Nuclear Ribosomal DNA Markers. *Sustainable Agriculture Research*. 2: 77–86.
51. Joseph, S., D.J. Murphy, **J.T. Miller** and M. Bhave. 2013. Application of Molecular Markers for Identification of Potential Salt Tolerant Plant Species for Use in Agroforestry and Saline Land Reclamation. *APCBEE Procedia*. 5: 514–519.

52. Bessega, C., C. Pometti, **J.T. Miller**, R. Watts, B.O. Saidman and J.C. Vilardi. 2013. New Microsatellite loci for *Prosopis alba* and *P. chilensis* (Leguminosae). *American Journal of Botany Primer Notes*. 1: 1200324.
53. Neville, P.G., M.J Wallace, S.K Krauss and **J.T. Miller**. 2013. DNA barcoding for conservation and ecological restoration of *Acacia* in the Midwest of Western Australia. *Molecular Ecology Resources*. 13: 1033–1042.
54. **Miller, J.T.** and D.M. Seigler. 2012. The generic status of *Acacia* sensu lato (Leguminosae: Mimosoideae). *Australian Systematic Botany*. 25: 217–224.
55. González-Orozco, C.E., A.H.D Brown, N. Knerr and **J.T. Miller**. 2012. Centres of diversity of Australian *Glycine* species. *Conservation Genetics*. 13: 1269–1281.
56. Maslin, B.R., M. O’Leary, J.E. Reid and **J.T. Miller**. 2012. The type of *Acacia aneura* (Mulga) and ambiguities concerning the application of this name. *Nuytsia*. 22: 269–294.
57. Stevenson, L., C.E. González-Orozco, N. Knerr, C. Cargill and **J.T. Miller**. 2012. Spatial distribution and analysis of species richness and endemism of liverworts, hornworts and mosses in Australia. *Journal of Bryology*. 34: 101–107.
58. González-Orozco, C.E., S.W. Laffan and **J.T. Miller**. 2011. Spatial distribution of species richness and endemism of the genus *Acacia* in Australia. *Australian Journal of Botany*. 59: 600–608.
59. Richardson, D.M., J. Carruthers, C. Hui, F.A.C. Impson, **J.T. Miller**, M.P Robertson, M. Rouget, J.J. Le Roux and J.R.U Wilson. 2011. Human-mediated introductions of Australian *Acacia* species—a global experiment in biogeography. *Diversity and Distributions*. 17: 771–787.
60. Otero, J.T., P.H. Thrall, M. Clements, **J.T. Miller** and J.J. Burdon. 2011. Co-diversification of Orchids (Pterostylidinae) and their Associated Mycorrhizal Fungi. *Australian Journal of Botany*. 59: 480–497.
61. **Miller, J.T.**, D. J. Murphy, G. K. Brown, D. M. Richardson and C. E. González-Orozco. 2011. The evolution and phylogenetic placement of invasive *Acacia* species *Diversity and Distributions*. 17: 848–860.
62. Gallagher, R., M.R. Leishman, **J.T. Miller**, C. Hui, D.M. Richardson, J. Suda and P. Trávníček . 2011. Genome size as a predictor of invasion success and trait variation in Australian acacias. *Diversity and Distributions*. 17: 884–897.
63. Gibson M.R., D.M. Richardson, E. Marchante, H. Marchante, J.G. Rodger, G.N. Stone, M. Byrne, A. Fuentes-Ramírez, N. George, C. Harris, S.D. Johnson, J.J. Le Roux, **J.T. Miller**, D.J. Murphy, A. Pauw, M.N. Prescott, E.M. Wandrag and J.R.U Wilson. 2011. Reproductive biology of Australian *Acacia* species: important mediator of invasiveness? *Diversity and Distributions*. 17: 911–933.
64. Clements, M.A., J. Tupac-Otero and **J.T. Miller**. 2011. Phylogenetic relationships in Pterostylidinae (Cranichideae: Orchidaceae): combined evidence from nuclear and plastid DNA sequences. *Australian Journal of Botany*. 59: 99–117.
65. **Miller, J.T.** and C. Miller. 2011. *Acacia* seedling morphology: Correlation of juvenile leaf forms and seed weight. *Australian Journal of Botany*. 59: 185–196.
66. Neiman, M., G. Hehman, **J.T. Miller**, J.M. Logsdon, Jr and D.R. Taylor. 2010. Accelerated mutation accumulation in asexual lineages of a freshwater snail. *Molecular Biology and Evolution*. 27: 954–963.

67. Murphy, D.J., G. K. Brown, **J. T. Miller** and P. Y. Ladiges. 2010. Molecular phylogeny of *Acacia* s.s. (Mimosoideae: Leguminosae) – evidence for major clades and informal classification. *Taxon*. 59: 7–19.
68. Brown, G.K., D.J. Murphy, **J.T. Miller** and P.Y. Ladiges. 2008. *Acacia* s.s. and its relationships among tropical legumes, tribe Ingeae (Leguminosae: Mimosoideae). *Systematic Botany* 33: 739–751. 10.1600/036364408786500136
69. Ruiz Guajardo, J.C., A. Otero-Arnaiz, T. Taylor, G. Stone, T.C. Glenn, **J.T. Miller**, and A. Schnabel. 2007. Isolation of polymorphic microsatellite markers in the sub-Saharan tree, *Acacia (Senegalia) mellifera* (Fabaceae: Mimosoideae). *Molecular Ecology Notes* 7: 1138–1140.
70. Ahn, Y.O., M. Zheng, B. Winkel, D.R. Bevan, A. Esen, S-H. Shiu, J. Benson, H.P. Peng, **J.T. Miller**, C.L. Cheng, J.P. Poulton and M.-C. Shih. (2007). Functional genomic analysis of *Arabidopsis thaliana* glycoside hydrolase family 35. *Phytochem.* 68: 1510–20.
71. Ballard, J.W.O., R.G. Melvin, **J.T. Miller** and S.D. Katewa, 2007. Sex differences in survival and disparity of mitochondrial bioenergetics in *Drosophila simulans*. *Aging Cell* 6: 699–708.
72. Seigler, D.S., J.E. Ebinger and **J.T. Miller**. 2007. *Mariosousa*: A new segregate genus from *Acacia sensu lato* (Fabaceae: Mimosoideae) from North America. *Novon* 16: 413–420.
73. Brown, G.K., S.R. Ariati, D.J. Murphy, **J.T. Miller** and P.Y. Ladiges. 2006. Bipinnate acacias (*Acacia* subg. *Phyllodineae* sect. *Botrycephalae*) of eastern Australia are polyphyletic based on DNA sequence data. *Australian Systematic Botany* 19: 315–326.
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Recent International Invitations

- Centre for Invasion Biology, Evolutionary Dynamics of Tree Invasions, University of Stellenbosch, South Africa, November 2015,
- Centre for Biodiversity Analysis, Understanding biodiversity dynamics using diverse data sources, May 2014.
- Sustaining the Future of *Acacia* Plantation Forestry, March 18 - 21, 2014, Hue Vietnam, declined.

- Mimosoid Legume Workshop, June 4-6, 2012, Universidade Estadual de Feira de Santana, Brazil
- International Botanical Congress Melbourne, August 2011.
- Human-mediated introductions of Australian *Acacia* species – a global experiment in biogeography Stellenbosch, South Africa, October 2010.
- Fifth International Legume Conference, August 2010.

Service Experience (Selected)

Cluster Leader, Systematics and Biodiversity Science, NSF – DEB, 2014 – 2016.

Working Group Leader, Genealogy of Life (GoLife), NSF, DEB, 2015 – 2016.

Team Leader Second National Earth Observation Assessment working group, Biodiversity SBA. 2014 – 16.

Symposium Organizer, International Botanic Congress, July 23–30, 2011. “*Acacia* (Mimosaceae) Co-Evolution: Investigations of the Plant Genus *Acacia* and its Allied Biota.”

Meeting Organizer, Australian Genetics Society, Annual Meeting July 2010.

Symposium Organizer, Fifth International Legume Conference. “Acacia Systematics,” August 2010.

Meeting Organizer, Society for Molecular Biology and Evolution, Annual Meeting June 3–7, 2009.

Symposium Organizer, Society for Molecular Biology and Evolution, Annual Meeting June 3–7, 2009. “Molecular evolution of plant: other interactions.”

Meeting Organizer, Evolution of Sex and Recombination: In Theory and Practice. The University of Iowa, June 16–19, 2008.

Manager of the Carver Center for Comparative Genomics, Department of Biological Sciences, University of Iowa. 2001–2008.

Meeting Organizer, Frontiers in Genomics: Insights into Protist Evolutionary Biology, The University of Iowa, May 19–21, 2004.

Committee Member, Organizing Committee for the Fourth International Legume Conference, Canberra, Australia. July, 2001

Symposium Organizer, “*Acacia* Systematics”, Fourth International Legume Conference, Canberra, Australia July, 2001.

Field Experience

Brazil, collection of Fabaceae with an emphasis on Senegalia, June 2012.

Australia, collection of Bryophytes and *Acacia*, Tasmania, 2011.

Australia, collection of *Acacia*, central Australia, 2010.

Australia, collection of *Acacia*, Western Australia, 2007, 2008, 2009.

Mexico, western states, collection of *Acacia* and other mimosoid species, 2007.

Australia, collection of *Acacia aneura*, Western Australia, 2006.

Puerto Rico and the Dominican Republic, collection of *Acacia* and other mimosoid species, 2006.

Mexico and Texas, collection of *Acacia* and other mimosoid species, 2005.

Western Australia and central Australia, collection of *Acacia* species with emphasis on *Acacia aneura*, 1999, 2000, 2001.

Hancock Experiment Station, Hancock, WI, morphological investigation of species boundaries in *Solanum* sect. *Longipedicelata* (*Solanum* sect. *Petota*), 1996.

Hancock Experiment Station, Hancock, WI, morphological investigation of the wild potato *Solanum brevicaule* complex (*Solanum* sect. *Petota*), 1995.

Bolivia and Peru, collection of potato, 1994–1995.

Sturgeon Bay, WI, morphological investigation of introgression of *Solanum chacoense* (*Solanum* sect. *Petota*) upland populations, 1993.