

CURRICULUM VITAE

Damon P. Little

The New York Botanical Garden
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APPOINTMENTS

2014–present. Associate Curator of Bioinformatics. Lewis B. and Dorothy Cullman Program for Molecular Systematics. The New York Botanic Garden (Bronx, New York).

2008–present. Doctoral Faculty. The Graduate School and University Center of The City University of New York (New York, New York).

2007–2014. Assistant Curator of Bioinformatics. Lewis B. and Dorothy Cullman Program for Molecular Systematics. The New York Botanic Garden (Bronx, New York).

2007–present. Montgomery Botanical Research Fellow. Montgomery Botanical Center (Coral Gables, Florida).

2004–2007. Postdoctoral Research Associate. Lewis B. and Dorothy Cullman Program for Molecular Systematics. The New York Botanic Garden (Bronx, New York). Supervisor: D. Wm. Stevenson.

EDUCATION

1998–2005. Cornell University (Ithaca, New York). Ph.D. program in systematic botany. Dissertation: Evolution and circumscription of the true cypresses (Cupressaceae: *Cupressus* and *Callitropsis*): a combined molecular and morphological approach. Committee: Jeff J. Doyle (representing the plant molecular biology minor), Melissa A. Luckow (representing the plant anatomy minor), Kevin C. Nixon (committee chair, representing plant systematics), Quentin D. Wheeler (representing the comparative zoology minor).

1994–1998. University of Vermont (Burlington, Vermont). Bachelor of Science specializing in botany.

PROGRAMMING AND SCRIPTING LANGUAGES

AWK, BASH, C, C++, JavaScript, PERL, R, and SQL.

CONTRIBUTED PAPERS—REGULAR PUBLICATIONS

Grimmer F., D. P. Little, T. Stützel, and C. Schulz. In prep. Biogeography of *Sambucus* (Adoxaceae): are bird migration routes highways for bird-dispersed plants? *Journal of Biogeography*.

Forest, F., E. Baloch, N. A. Brummitt, S. Bachman, J. Moat, S. Ickert–Bond, P. M. Hollingsworth, A. Liston, D. P. Little, S. Mathews, H. Rai, C. Rydin, D. W. Stevenson, P. Thomas, and S. Buerki. Submitted. Gymnosperms on the EDGE. *Proceedings of the National Academy of Sciences*.

Diaz–Silveira, G., J. Deutsch, and D. P. Little. Submitted. DNA barcode authentication of devil’s claw herbal supplements. *Genome*.

- Grimmer F., D. P. Little, T. Stützel, and C. Schulz. Submitted. Molecular phylogeny and character evolution of the genus *Sambucus* (Adoxaceae). Journal of Plant Research.
- Clugston, J. A. R., M. P. Griffith, M. A. Calonje, C. E. Husby, G. J. Kenicer, D. P. Little, and D. W. Stevenson. Accepted. Reproductive Phenology of *Zamia* L.—a comparison between wild cycads and their cultivated counterparts. Proceedings of the 9th International Conference on Cycad Biology.
- Clugston, J. A. R., M. P. Griffith, G. J. Kenicer, C. E. Husby, M. A. Calonje, D. Wm. Stevenson, and D. P. Little. 2016. *Zamia* (Zamiaceae) phenology in a phylogenetic context: does *in situ* reproductive timing correlate with ancestry? Edinburgh Journal of Botany 73 (3): 345–370.
- Meyer, R. S., B. D. Whitaker, D. P. Little, S.-B. Wu, E. J. Kennelly, C.-L. Long, and A. Litt. 2015. Parallel reductions in phenolic constituents resulting from the domestication of eggplant. Phytochemistry 115: 194–206.
- Little, D. P. 2014. Authentication of *Ginkgo biloba* herbal dietary supplements using DNA barcoding. Genome 57 (9): 513–516.
- Gorelick, R., D. L. Fraser, B. J. M. Zonneveld, and D. P. Little. 2014. Cycad (Cycadales) chromosome numbers are not correlated with genome size. International Journal of Plant Sciences 175 (9): 986–997.
- Little, D. P. 2014. A DNA mini-barcode for land plants. Molecular Ecology Resources 14 (3): 437–446.
- Salinas, N. R. and D. P. Little. 2014. 2matrix: a utility for indel coding and phylogenetic matrix concatenation. Applications in Plant Sciences 2 (1): 1300083.
- Little, D. P. and M. L. Jeanson. 2013. DNA barcode authentication of saw palmetto herbal dietary supplements. Scientific Reports 3: 3518.
- Little, D. P., P. Knopf, and C. Schulz. 2013. DNA barcode identification of Podocarpaceae—the second largest conifer family. PLoS ONE 8 (11): e81008.
- Okunji, C. O., G. I. Giancaspro, N. Sarma, D. H. Reynaud, and D. P. Little. 2013. DNA-based methods for authentication of articles of botanical origin. Pharmacopeial Forum 39 (5).
- Meyer, R. S., S. Knapp, A. Litt, K. G. Karol, D. P. Little, and M. Nee. 2013. Reply to J. Samuels: Taxonomic notes on several wild relatives of *Solanum melongena* L. Molecular Phylogenetics and Evolution 69 (1): 306–307.
- Hall, G. S. and D. P. Little. 2013. Within-host competition between barley yellow dwarf-PAV and -PAS. Virus Research 174 (1–2): 148–151.
- Salinas, N. R. and D. P. Little. 2012. Electric LAMP: virtual Loop-mediated isothermal AMPlification. ISRN Bioinformatics 2012: 696758.
- Baker, D. A., D. Wm. Stevenson, and D. P. Little. 2012. DNA barcode identification of black cohosh herbal dietary supplements. The Journal of AOAC International 95 (4): 1023–1034.
- Knopf, P., C. Schulz, D. P. Little, T. Stützel, and D. W. Stevenson. 2012. Relationships within Podocarpaceae based on DNA sequence, anatomical, morphological, and biogeographical data. Cladistics 28 (3): 271–299.
- Meyer, R. S., K. G. Karol, D. P. Little, M. H. Nee, and A. Litt. 2012. Phylogeographic relationships among Asian eggplants and new perspectives on eggplant domestication. Molecular Phylogenetics and Evolution 63 (3): 685–701.
- Griffith, M. P., M. A. Calonje, D. Wm. Stevenson, C. E. Husby, and D. P. Little. 2012. Time, place, and relationship: cycad phenology in phylogenetic and biogeographic context. Memoirs of The New York Botanical Garden 106 (1): 59–81.

Lee, E. K., A. Cibrian-Jaramillo, S.-O. Kolokotronis, M. S. Katari, A. Stamatakis, M. Ott, J. C. Chiu, D. P. Little, D. Wm. Stevenson, W. R. McCombie, R. A. Martienssen, G. Coruzzi, and R. DeSalle. 2011. A functional phylogenomic view of seed plants. *PLoS Genetics* 7 (12): e1002411.

Jeanson, M. L., J.-N. Labat, and D. P. Little. 2011. DNA Barcoding: a new tool for palm taxonomists? *Annals of Botany* 108 (8): 1445–1451.

Nagalingum, N. S., C. R. Marshall, T. B. Quental, H. S. Rai, D. P. Little, and S. Mathews. 2011. Recent synchronous radiation of a living fossil. *Science* 334 (6057): 796–799.

Little, D. P. 2011. DNA barcode sequence identification incorporating taxonomic hierarchy and within taxon variability. *PLoS ONE* 6 (8): e20552.

Stoeckle, M. Y., C. C. Gamble, R. Kirpekar, G. Young, S. Ahmed, and D. P. Little. 2011. Commercial teas highlight plant DNA barcode identification successes and obstacles. *Scientific Reports* 1: 42.

Little, D. P., P. Thomas, H. T. Nguyễn, and L. K. Phan. 2011. Before it had a name: diagnostic characteristics, geographic distribution, and the conservation of *Cupressus tonkinensis* (Cupressaceae). *Brittonia* 63 (2): 171–196.

Hollingsworth, P. M., S. W. Graham, and D. P. Little. 2011. Choosing and using a plant DNA barcode. *PLoS ONE* 6(5): e19254.

Schulz, C., D. P. Little, D. Wm. Stevenson, A. Nowogrodzki, and D. Paquiot. 2010. Growth and care instructions of a new model species—the lycophyte *Selaginella apoda*. *American Fern Journal* 100 (3): 167–171.

Hall, G. S., J. S. Peters, D. P. Little, and A. G. Power. 2010. Plant community diversity influences vector behaviour and *Barley yellow dwarf virus* population structure. *Plant Pathology* 59 (6): 1152–1158.

Little, D. P. 2010. A unified index of sequence quality and contig overlap for DNA barcoding. *Bioinformatics* 26 (21): 2780–2781.

Schulz, C., D. P. Little, D. Wm. Stevenson, D. Bauer, C. Moloney, and T. Stützel. 2010. An overview of the morphology, anatomy, and life cycle of a new model species—the lycophyte *Selaginella apoda* (L.) Spring. *International Journal of Plant Sciences* 171 (7): 693–712. [cover illustration]

Cibrián-Jaramillo, A., J. E. De la Torre-Bárcena, E. K. Lee, M. S. Katari, D. P. Little, D. W. Stevenson, R. Martienssen, G. M. Coruzzi, and R. DeSalle. 2010. Using phylogenomic patterns and gene ontology to identify proteins of importance in plant evolution. *Genome Biology and Evolution* 2: 225–239.

CBOL Plant Working Group: Hollingsworth, P. M., L. L. Forrest, J. L. Spouge, M. Hajibabaei, S. Ratnasingham, M. van der Bank, M. W. Chase, R. S. Cowan, D. L. Erickson, A. J. Fazekas, S. W. Graham, K. E. James, K.-J. Kim, W. J. Kress, H. Schneider, J. van Alphen Stahl, S. C. H. Barrett, C. van den Berg, D. Bogarin, K. S. Burgess, K. M. Cameron, M. Carine, J. Chacón, A. Clark, J. J. Clarkson, F. Conrad, D. S. Devey, C. S. Ford, T. A. J. Hedderson, M. L. Hollingsworth, B. C. Husband, L. J. Kelly, P. R. Kesanakurti, J. S. Kim, Y. D. Kim, R. Lahaye, H.-L. Lee, D. G. Long, S. Madriñán, O. Maurin, I. Meusnier, S. G. Newmaster, C.-Wu Park, D. M. Percy, G. Petersen, J. E. Richardson, G. A. Salazar, V. Savolainen, O. Seberg, M. J. Wilkinson, D.-K. Yi, and D. P. Little. 2009. A DNA barcode for land plants. *Proceedings of the National Academy of Sciences* 106 (31): 12794–12797.

Martin, C. V., D. P. Little, R. Goldenberg, and F. A. Michelangeli. 2008. A phylogenetic evaluation of *Leandra* (Miconieae, Melastomataceae): a polyphyletic genus where the seeds tell the story, not the petals. *Cladistics* 24 (3): 315–327.

Hall, G. S. and D. P. Little. 2007. Relative quantitation of virus population size in mixed genotype infections using sequencing chromatograms. *The Journal of Virological Methods* 146 (1–2): 22–28.

Sass, C., D. P. Little, D. Wm. Stevenson, and C. D. Specht. 2007. DNA Barcoding in the Cycadales: testing the potential of proposed barcoding markers for species identification of cycads. *PLoS ONE* 2 (11): e1154.

Douglas, A. Wm., D. Wm. Stevenson, and D. P. Little. 2007. Ovule development in *Ginkgo biloba* L. with emphasis on the collar and nucellus. *International Journal of Plant Sciences* 168 (9): 1207–1236. [cover illustration]

Little, D. P., R. C. Moran, E. D. Brenner, and D. Wm. Stevenson. 2007. Nuclear genome size in *Selaginella*. *Genome* 50 (4): 351–356. [cover illustration]

Little, D. P. and D. Wm. Stevenson. 2007. A comparison of algorithms for identification of specimens using DNA barcodes: examples from gymnosperms. *Cladistics* 23 (1): 1–21. [cover illustration]

Little, D. P. 2006. Evolution and circumscription of the true cypresses (Cupressaceae: *Cupressus*). *Systematic Botany* 31 (3): 461–480.

Davis, J. I., K. C. Nixon, and D. P. Little. 2005. The limits of conventional cladistic analysis. pp. 119–147 in V. A. Albert, ed. *Parsimony, Phylogeny, and Genomics*. Oxford: Oxford University Press.

Little, D. P., A. E. Schwarzbach, R. P. Adams, and C. F. Hsieh. 2004. The circumscription and phylogenetic relationships of *Callitropsis* and the newly described genus *Xanthocyparis* (Cupressaceae). *American Journal of Botany* 91 (11): 1872–1881.

Little, D. P. 2004. Documentation of hybridization between Californian cypresses: *Cupressus macnabiana* × *sargentii*. *Systematic Botany* 29 (4): 825–833.

Tehler, A., D. P. Little, and J. S. Farris. 2003. The full-length phylogenetic tree from 1551 ribosomal sequences of chitinous fungi. *Mycological Research* 107 (8): 901–916.

Little, D. P. and D. S. Barrington. 2003. Major evolutionary events in the origin and diversification of the fern genus *Polystichum* (Dryopteridaceae). *American Journal of Botany* 90 (3): 508–514.

CONTRIBUTED PAPERS—COMPUTER PROGRAMS

Salinas, N. R. and D. P. Little. 2013. 2matrix: a utility for indel coding and phylogenetic matrix concatenation. Program distributed by the authors <https://github.com/nrsalinas/2matrix>.

Little, D. P. 2012. BRONX: Barcode Recognition Obtained with Nucleotide eXposés 2.0. Program distributed by the author <http://www.nybg.org/files/scientists/dlittle/BRONX2.html>.

Salinas, N. R. and D. P. Little. 2012. eLAMP: virtual Loop-mediated isothermal AMPLification. Program distributed by the authors <http://www.nybg.org/files/scientists/dlittle/eLAMP.html>.

Little, D.P. 2010. B: an index of sequence quality and contig overlap for DNA barcoding. Program distributed by the author <http://www.nybg.org/files/scientists/dlittle/B.html>.

Little, D. P. 2009. Simple pairwise matching for DNA barcoding. Program distributed by the author <http://www.nybg.org/files/scientists/dlittle/PWVG.html>.

Little, D. P. 2009. BRONX: Barcode Recognition Obtained with Nucleotide eXposés. Program distributed by the author <http://www.nybg.org/files/scientists/dlittle/BRONX.html>.

Little, D. P. 2007. degenbar: a simple SIDE (Sequence IDentification Engine). Program distributed by the author <http://www.nybg.org/files/scientists/degenbar.html>.

Little, D. P. 2007. DOME ID (Diagnostic Oligo Motifs for Explicit IDentification): a simple SIDE (sequence identification engine). Program distributed by the author <http://www.nybg.org/files/scientists/dlittle/dome.html>.

Little, D. P. 2007. ATIM (Alignment-free Tree-based Identification Method): a simple SIDE (sequence identification engine). Program distributed by the author <http://www.nybg.org/files/scientists/dlittle/atim.html>.

Little, D. P. and G. S. Hall. 2006. polySNP: an analysis tool for quantitative sequencing. Program distributed by the authors <http://www.nybg.org/files/scientists/dlittle/polySNP.html>.

Little, D. P. 2005. 2xread: a simple indel coding tool. Program distributed by the author <http://www.nybg.org/files/scientists/2xread.html>.

CONTRIBUTED PAPERS—SELECTED CONFERENCE PRESENTATIONS

Little, D. P. 2015. Automating revisionary systematic studies with *Monographia*. Biodiversity Information Standards (a.k.a. Taxonomic Databases Working Group [TDWG]).

Little, D. P. 2014. *Monographia*: open-source software to automate revisionary systematic studies. Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Little, D. P. 2011. APB: a pipeline for DNA barcode sequences. Fourth International Barcode of Life Conference.

Stoeckle, M. Y., C. C. Gamble, R. Kirpekar, G. Young, S. Ahmed, and D. P. Little. 2011. Commercial teas highlight plant DNA barcode identification successes and obstacles. Fourth International Barcode of Life Conference.

Little, D. P. and D. Wm. Stevenson. 2010. DNA barcoding gymnosperms: a tool for automated plant identification. Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Little, D. P. 2009. Of plants & fungi. Third International Barcode of Life Conference.

Little, D. P. 2009. The other 30%: the search for improbable paradoxical sequences. Third International Barcode of Life Conference.

Little, D. P., J. Deutsch, A. Dutton, S. Margheim, R. Peery, L. A. Raubeson, and D. Wm. Stevenson. 2008. Cycads in the gymnosperm tree of life. Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Little, D. P. and D. Wm. Stevenson. 2008. Cycads in the gymnosperm tree of life. VIII International Cycad Conference.

Little, D. P. and D. Wm. Stevenson. 2008. DNA barcoding in cycads: progress and problems. VIII International Cycad Conference.

Little, D. P. 2007. Diagnostic characteristics, habitat specificity, and the conservation of *Cupressus tonkinensis* (Cupressaceae). Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Little, D. P. and K. C. Nixon. 2007. Speed and accuracy in sequence alignment. Annual meeting of the Willi Hennig Society.

Little, D. P. 2006. Evolution and circumscription of the true cypresses (Cupressaceae: *Cupressus*). 17th International Symposium of Biodiversity and Evolutionary Biology.

Little, D. P. and D. Wm. Stevenson. 2006. A comparison of algorithms for identification of specimens using DNA barcodes: examples from gymnosperms. Annual meeting of the Willi Hennig Society.

Little, D. P. and D. Wm. Stevenson. 2006. A comparison of algorithms for identification of specimens using DNA barcodes: examples from gymnosperms. Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Little, D. P. 2006. Transfusion tracheid pitting in Cupressoideae with particular attention to *Callitropsis* and *Cupressus* (Cupressaceae). Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Little, D. P. 2003. Preliminary documentation of hybridization between species of New World *Cupressus* (Cupressaceae). Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Nixon, K. C. and D. P. Little. 2003. The use of optimality criteria in DNA sequence alignment and its application in a new computer program. Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Nixon, K. C. and D. P. Little. 2003. The use of optimality criteria in DNA sequence alignment and its application in a new computer program. Annual meeting of the Willi Hennig Society.

Little, D. P. 2002. Phylogeny and species circumscription in Cupressoideae (Cupressaceae) with special reference to *Cupressus*. Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Little, D. P. and K. C. Nixon. 2002. Speed, efficiency, and more data in cladistic analysis. Annual meeting of the American Society of Plant Taxonomists and the Botanical Society of America.

Little, D. P. 2000. Phylogenetic relationship and monophyly of *Cupressus* and *Chamaecyparis* (Cupressaceae): molecular and organismal evidence. *American Journal of Botany* 87 (6 supplement): 139.

CONTRIBUTED PAPERS—SELECTED INVITED TALKS

2016. *Monographia*: a tool to automate revisionary systematics. American Museum of Natural History.

2016. Botany at the New York Botanical Garden. Taft School.

2015. Confirming species identity of herbal dietary supplements, an example from Devil's Claw. United States Pharmacopeial Convention (USP) Adulteration and Fraud Workshop.

2014. Botanical species authentication using DNA barcoding. United States Pharmacopeial Convention (USP) Workshop on DNA Methods for Quality Control of Botanical Products.

2014. DNA identification of herbal products. American Herbal Products Association Botanical Congress.

2014. Bayesian inference of phylogenetic trees. Universidad Nacional Autónoma de México.

2014. Cupressaceae: morphology, molecules, and phylogeny. Universidad Autónoma del Estado de Hidalgo (Tulancingo).

2014. What you can, and cannot, learn from DNA barcoding. The New York Botanical Garden.

2012. Plant DNA barcoding: from markers to applications. American Museum of Natural History.

2012. Plant DNA barcoding: from markers to applications. Ohio University, Department of Environmental and Plant Biology.

2012. DNA barcode techniques for the identification of herbal dietary supplement constituents. United States Pharmacopeial Convention (USP) Science and Standards Symposium.

2012. The use of DNA barcode techniques to identify the constituents of herbal dietary supplements. International Congress on Natural Products Research.

2012. The use of DNA barcode techniques to identify constituents of teas and herbal dietary supplements. Annual meeting of the Mycological Society of America.

2012. DNA barcode techniques to identify constituents of herbal products. 12th Annual Oxford International Conference on the Science of Botanicals.
2012. Plant DNA barcoding: markers to applications. Rutgers University.
2011. DNA barcoding: a tool for automated plant identification. Hostos–Lincoln Academy of Science.
2011. Barcode Recognition Obtained with Nucleotide eXposés (BRONX). Chicago Workshop for the Data Analysis Working Group.
2010. The evolutionary context of Tecate cypress: what we can learn from near relatives. Tecate Cypress Symposium.
2010. Red (*Thuja plicata*) and yellow cedar (*Callitropsis nootkatensis*): phylogeny, nomenclature, and organismal character evolution. A Tale of Two Cedars.
2009. DNA barcoding: a tool for automated plant identification. El Centro de Investigación Científica de Yucatán.
2009. DNA barcoding: a tool for automated plant identification. Rutgers University.
2009. Teenage mutant ninja conifers. American Conifer Society.
2009. treeBOL: a collaborative effort for plant DNA barcoding. MexBoL inaugural meeting.
2008. treeBOL: a collaborative effort for plant DNA barcoding. ARBoL inaugural meeting.
2008. Regions of DNA sequence that evolve like barcodes of life. Lehman College, City University of New York.
2008. treeBOL: a collaborative effort for plant DNA barcoding. New York State Genetics Task Force.
2007. DNA Barcode sequence identification incorporating taxonomic hierarchy and within taxon variability. Second International Barcode of Life Conference.
2007. Bayesian inference of phylogenetic trees. Cornell University.
2007. Evolution and circumscription of the true cypresses. Montgomery Botanical Center.
2007. Evolution and circumscription of the true cypresses. The New York Botanical Garden.
2006. A comparison of algorithms for identification of specimens using DNA barcodes. International DNA Barcode Conference, Paris Workshop for the Data Analysis Working Group.
2004. Evolution and circumscription of the true cypresses (Cupressaceae: *Cupressus*). University of Vermont, Department of Botany.

PEER REVIEW

American Journal of Botany, Asian Biomedicine, Bioinformatics, Biology Letters, BMC BioData Mining, BMC Bioinformatics, BMC Evolutionary Biology, Botanical Journal of the Linnean Society, Botanical Review, Botanical Studies, Botany, Brittonia, Economic Botany, Cladistics, Evolution, Gene, Genetica, Genome Biology and Evolution, HerbalGram, Heredity, International Journal of Plant Sciences, Journal Of Dietary Supplements, Journal of Systematics and Evolution, The Journal of the Torrey Botanical Society, Memoirs of The New York Botanical Garden, Methods in Ecology and Evolution, Mitochondrial DNA, Molecular Ecology Resources, Molecular Phylogenetics and Evolution, New Phytologist, Novon, Nucleic Acids Research, Philosophical Transactions B, Phyton, Plant Cell Reports, Plant Molecular Biology, Plant Systematics and Evolution, PLoS Genetics, PLoS ONE, Proceedings of the Academy of Natural Sciences, Proceedings of the National Academy of Sciences, Science, SIDA Contributions to Botany, Systematic Botany, and Taxon.

2014–present. Associate academic editor. PLOS ONE.

MENTORING AND ADVISING—HIGH SCHOOL LEVEL

Estrella, M., R. Lorianny, and S. Salas. 2016–2017. Barcoding roots to quantify biodiversity in the center of a small urban forest. Hostos–Lincoln Academy of Science.

Almonte, N., J. Bailon, and J. L. Martino. 2016–2017. Barcoding roots to quantify biodiversity at the margin of a small urban forest. Hostos–Lincoln Academy of Science.

Dipto, S. 2016. Machine learning to distinguishing between plant and fungal 5.8S DNA sequences. Bronx High School of Science.

Kim, J. 2016. New rapid algorithms for modeling plant geographic distributions. Bronx High School of Science.

Lin, V. 2016. Electronic identification keys incorporating variable character definitions. Bronx High School of Science.

Chen, J. 2016. A universal *matK* mini–barcode. Bronx High School of Science.

Baez, S., R. Bermejo, and J. H. Estacio. 2015–2016. Management of an invasive species, *Corydalis incisa*, along the Bronx River. Hostos–Lincoln Academy of Science.

Levy, E. 2015. Rapid plant DNA extraction sans laboratory equipment. Taft School.

Estacio, J., H. Frempong, L. Ortigoza, and L. Velazquez. 2014–2015. In search of invasive plants species: using DNA barcode to survey seed distribution along the Bronx River. Hostos–Lincoln Academy of Science.

Rubin, Z. 2014–2015. The origin of *Cupressus ×notabilis* revisited. Edgemont High School.

Jain, A. 2013. The effects of *Phytoplasma* infection on the leaf morphology of *Juniperus chinensis*. Bronx High School of Science.

Chu, A. 2012. DNA Barcode primer design. Bronx High School of Science.

Kleiser, G. 2012. DNA barcoding of devil's claw dietary supplements. Trinity School.

Tan, G. 2012. Rapid plant DNA extraction. Bronx High School of Science.

Yip, M. 2012. Automated statistical models of plant DNA barcode markers. Bronx High School of Science.

Mitamura, E. 2011. A generic–level DNA barcode reference database of vascular plants. The Masters School.

Vaidya, N. 2011. A generic–level DNA barcode reference database of vascular plants. Nyack Public Schools.

Zhao, N. 2011. Statistical models of plant DNA barcode markers. Bronx High School of Science.

Mitamura, E. 2010. DNA barcoding the flora of the northeastern United States and Adjacent Canada. The Masters School.

Yeh, D. 2010. DNA barcoding the flora of the northeastern United States and Adjacent Canada. Herricks High School.

Shanker, J. 2008–2009. DNA barcoding of herbal supplements. Foxlane High School.

Chen, S. 2007–2008. Elucidating the mode of plastid inheritance in gymnosperms. Hunter Scholars Program.

Chen, S., E. Gould, D. Straus, and A. Tung. 2007. Elucidating the mode of plastid inheritance in gymnosperms. New York Academy of Science.

MENTORING AND ADVISING—UNDERGRADUATE LEVEL

Kepecs, B. 2016. Towards a phylogeny of *Xyris* (Xyridaceae). Columbia University.

Mimoso, M. 2012. DNA barcoding of garlic dietary supplements. New York University.

Mimoso, M. 2011. A generic-level DNA barcode reference database of vascular plants. New York University.

Query, N. 2011. A generic-level DNA barcode reference database of vascular plants. City University of New York, Lehman College.

Yuen, K. 2008. DNA barcoding the flora of the northeastern United States and Adjacent Canada. John Jay College of Criminal Justice.

Koenemann, D. M. 2008. Cycad phylogeny as inferred from whole plastid genome sequences. University of Vermont.

Rothman, N. 2008. The origin of *Cupressus ×notabilis* revisited. Vassar College.

MENTORING AND ADVISING—POSTGRADUATE LEVEL

Yasumaru, E. 2014–2017. Optimizing the *Monographia* database.

Santiago, M. 2013. DNA barcode authentication of elder berry herbal dietary supplements.

Díaz-Silveira, G. L. 2013. Phylogenetics of Pedaliaceae.

Nguyen, H. U. 2010. DNA barcoding the flora of the northeastern United States and Adjacent Canada.

MENTORING AND ADVISING—GRADUATE LEVEL

Ahmad, A. 2009. Systematics of *Hymenocallis* Salisb. (Amaryllidaceae). Plant biology Ph.D. program. Committee member. City University of New York.

Cavaliere, D. 2015. Phylogenetic analyses of Martyniaceae and morphological analyses of trichomes. Master of Arts in Biology. Thesis advisor. City University of New York.

Díaz-Silveira, G. L. 2015. DNA barcode authentication of devil's claw herbal supplements. Master of Science in Biology. Thesis advisor. New York University.

Dorey, J. 2019. Systematics of *Carex* (Cyperaceae). Plant biology Ph.D. program. Committee member. City University of New York.

Doyle, V. P. 2012. *Colletotrichum gloeosporioides* s.l. in North America: sex, host, and habitat-mediated diversity in a plant-associated ascomycete. Plant biology Ph.D. program. Committee member. City University of New York.

Hernández León, S. 2017. Identificación taxonómica de coníferas en el estado de Hidalgo mediante herramientas moleculares y morfológicas. Ph.D. program. Committee member. Universidad Autónoma Del Estado De Hidalgo.

Huang, Y.-Y. 2010. Systematics of Lecythidoideae (Lecythidaceae): with emphasis on *Bertholletia*, *Corythophora*, *Eschweilera*, and *Lecythis*. Plant biology Ph.D. program. Committee member. City University of New York.

Huish, R. D. 2009. The sustainable management and conservation of *Santalum yasi* (sandalwood) in Fiji and Tonga: a combined ecological and genetic approach. Plant biology Ph.D. program. Committee member. City University of New York.

Kitalong, C. 2014. Ethnomedical, ecological, and phytochemical studies of the Palauan flora. Plant biology Ph.D. program. Committee member. City University of New York.

Meyer, R. S. 2012. Chemical, genetic, and ethnobotanical diversity in Asian eggplant. Plant biology Ph.D. program. Committee member. City University of New York.

Morcol, T. 2019. Diversity and population structure of wild hops in the American Southwest. Plant biology Ph.D. program. Committee member. City University of New York.

Rodrigues-Vaz, C. 2017. Systematics and ecology of the Andean neotropical *Schefflera* (Araliaceae) with globose capitate inflorescence. Plant biology Ph.D. program. Committee member. City University of New York.

Salinas, N. R. 2015. Systematics and biogeography of *Orthaea* Klotzsch (Ericaceae: Vaccinieae). Committee member. City University of New York.

Simpson, J. 2012. Phylogeny and population genetics of the endangered dwarf bear-poppy, *Arctomecon humilis* Coville (Papaveraceae) using microsatellite markers. Plant biology Ph.D. program. Committee member. City University of New York.

Virnig, A. 2017. From metabolic systems to human systems: an interdisciplinary approach to studying the Neotropical blueberries (Vaccinieae, Ericaceae). Plant biology Ph.D. program. Committee member. City University of New York.

FIELD WORK

Alaska (1995, 2007, 2008), Argentina (2004), Arizona (2002), Australia (2011), Brazil (2010), British Columbia (2008), California (2000, 2008, 2010, 2011), China (2002), Costa Rica (1999, 2005), México (2002, 2009, 2014), Myanmar (2015, 2016), Nepal (2001), New Jersey (2003), Oregon (1999), and Vietnam (2005).

FUNDING

Litt, A., N. Pabon-Mora, and D. P. Little. 2015. National Science Foundation. Functional evolution of the *FRUITFULL* gene lineage in the tomato family (Solanaceae). \$883,999.

Little, D. P., G. Amato, G. M. Plunkett, and J. S. Miller. 2010. Alfred P. Sloan Foundation. Protecting biodiversity through training in DNA barcoding. \$1,600,000.

Campbell, L. M. and D. P. Little. 2009. National Science Foundation. U.S.—Brazil research planning visit: Phylogenetic systematics of Xyridaceae (Poales)—towards a monograph of the yellow-eyed grasses (OISE 0943417). \$4,594.

Little, D. P. and A. Litt. 2009. National Science Foundation. MRI: Acquisition of a high performance computer cluster for The New York Botanical Garden (DBI 0922799). \$432,284.

Little, D. P. 2004. Cornell University, Bailey Hortorium. H. E. Moore fund. \$2,000.

Little, D. P. 2003. Cornell University, Einaudi Center. Lam family travel award. \$2,000.

Nixon, K. C. and D. P. Little. 2002. National Science Foundation. Doctoral Dissertation: Systematics of *Cupressus* and *Chamaecyparis* (DEB 0206092). \$9,500.

Little, D. P. 2002. Cornell University, Einaudi Center. Southeast Asia travel award. \$1,600.

Little, D. P. 2001. Cornell University, Einaudi Center. Southeast Asia travel award. \$1,900.

Little, D. P. 2001. American Society of Plant Taxonomists. Graduate research award. \$500.

Little, D. P. 2000. Cornell University, Graduate College. Domestic research award. \$1,075.

Little, D. P. 2000. Cornell University, Bailey Hortorium. Clausen fund. \$4,500.

Little, D. P. 1997. University of Vermont. HELiX Undergraduate Research Mini Grant. \$500.

TEACHING

2010, 2012, 2014. Lecturer. City University of New York, Graduate Center. Phytoinformatics (BIOL 75302/79303/79304). 3 semesters.

2005, 2007, 2008. Lecturer. The New York Botanical Garden. Gymnosperm Morphology (BOT 443). 3 semesters.

2001, 2003. Teaching Assistant. Cornell University. Phylogenetic systematics (BioPI 440). 2 semesters.

1998–2000. Teaching Assistant. Cornell University. Introductory biology for majors (BioG 103–104). 4 semesters.

1998, 2000, 2005. Teaching Assistant. University of Vermont. Tropical Plant Systematics, Field Trip to Costa Rica (BOT 232). 3 trips.

1998. Teaching Assistant. University of Vermont. Flowering plant systematics (BOT 109). 1 semester.

TEACHING AWARDS

2003. Cornell University. Golden Apple teaching award.

UNDERGRADUATE HONORS

Dean's List (8 semesters), and Alpha Zeta First Year Proficiency Award.

UNDERGRADUATE AWARDS

Craig Parent, Teacher, and Student Association Continuing Education Scholarship (twice); Craig School Board Continuing Education Scholarship (twice); University of Vermont Grant; Vermont Bird and Botanical Club Annual Meeting Scholarship; Richard H. Holzer Memorial Foundation Scholarship (twice); New England Farm and Garden Association Scholarship (thrice); The Lucretia D. Jephson Education Trust Scholarship; Craig Teacher's Association Scholarship; Craig City School Board Scholarship; Alaska Native Sisterhood Scholarship; and Craig Moose Lodge Scholarship.