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College of Liberal Arts & Sciences Leadership: <https://las.illinois.edu/about/leadership>

Academic profiles available on:

ResearchGate (<https://www.researchgate.net/profile/Stephen-Downie>)
Google Scholar (<https://scholar.google.com/citations?user=NWLv2c0AAAAJ&hl=en>)
LinkedIn (<https://www.linkedin.com/in/stephen-r-downie-1913a445/>)
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Education

Ph.D., Plant Taxonomy, 1987

Department of Botany, University of Alberta, Edmonton, Canada
(Sept 1982 – Mar 1987)
A biosystematic study of *Arnica* subgenus *Arctica* (Asteraceae)
Advisor: Keith E. Denford

B.Sc., Specialized Honours Botany, 1982

University of Guelph, Guelph, Ontario, Canada
(Sept 1978 – May 1982)

Professional Experience

Current Positions:

Associate Dean for Curricula and Academic Policy, College of LAS (July 2022 – present)
Curator, University of Illinois Vascular Plant Herbarium (ILL) (Mar 2019 – present)
Professor, Department of Plant Biology, School of Integrative Biology (Aug 2004 – present)
Faculty Member, Program in Ecology, Evolution and Conservation Biology (June 1998 – present)

Previous Positions at University of Illinois Urbana-Champaign:

Interim Associate Dean for Curricula and Academic Policy, College of LAS (July 2021 – July 2022)
Associate Director of Academic Affairs, School of Integrative Biology (Aug 2017 – July 2021)
Director, Graduate Assistance in Areas of National Need (GAANN) program (Aug 2016 – Dec 2020)
Associate Curator, University of Illinois Vascular Plant Herbarium (ILL) (Feb 2005 – Mar 2019)

Associate Head, Dept of Plant Biology (Aug 2002 – Aug 2007)
Director of Graduate Studies, Dept of Plant Biology (Aug 2002 – Aug 2007)
Associate Professor, Dept of Plant Biology (Aug 1998 – Aug 2004)
Assistant Professor, Dept of Plant Biology (Jan 1992 – Aug 1998)

Previous Positions Elsewhere:

Visiting Scholar, The Univ of Texas at Austin (Sabbatical, Jan 2008 – June 2008, Laboratory of Robert K. Jansen)
Visiting Researcher, Royal Botanic Garden Edinburgh, Scotland (Sabbatical, June 1998 – Aug 1999)
Postdoctoral Fellow, Dept of Biology, Indiana Univ (July 1990 – Dec 1991, Laboratory of Jeffrey D. Palmer)
NSERC of Canada Postdoctoral Fellow, Indiana Univ (Aug 1989 – June 1990, Laboratory of Jeffrey D. Palmer)
NSERC of Canada Postdoctoral Fellow, Univ of Michigan (July 1988 – Aug 1989, Laboratory of Jeffrey D. Palmer)
Postdoctoral Fellow, Dept of Biology, Univ of Ottawa, Ontario (Apr 1987 – June 1988, Lab of John McNeill)
Visiting Researcher, Agriculture and Agri-Foods Canada, Ottawa (Fall 1986, Laboratory of Suzanne Warwick)
Instructor, Division of Science and Technology, Red Deer College, Alberta (Summer 1986)

Recent Grants

Development of an Online Bachelor of Liberal Studies Degree Completion Program in the College of Liberal Arts & Sciences. Investment for Growth Program, Office of the Provost, University of Illinois (Sept 2022 – present). \$3,000,000. Funds will support the development and implementation of the new BLS degree and Liberal Studies major in the College of LAS.

Enhancing Opportunities for Research and Training in Integrative Biology. U.S. Department of Education's Graduate Assistance in Areas of National Need (GAANN) program (Aug 2016 – Dec 2020). \$1,181,472 plus \$653,622 UI matching contribution = \$1,835,094. Funds have supported 8-12 graduate student fellowships per year over three years in the School of Integrative Biology.

Administrative and Teaching Interests

Course and curriculum development, including innovative programs
Effective pedagogy
General education
Undergraduate success
Plant systematics and herbarium curation
Biology for the non-science major

Nomenclature and Plant Species Authored

Standard Author Abbreviation: S.R.Downie
Plant Names Authored by S.R.Downie: https://species.wikimedia.org/wiki/Stephen_R._Downie
List of Taxon Names in Wikipedia: https://species.wikimedia.org/wiki/Category:Stephen_R._Downie_taxa
List of Taxon Names in International Plant Names Index (IPNI): <https://www.uk.ipni.org/a/18181-1>

Eponymous Species (Patronyms)

(Plant species named in honor of Stephen R. Downie)

Vesper (6 species, Apiaceae), Reference: <https://www.phytoneuron.net/94PhytoN-Vesper.pdf>
Ferula downieorum (Apiaceae), Reference: <https://onlinelibrary.wiley.com/doi/10.12705/644.8>

Instruction

University of Illinois:

IB 100, Biology in Today's World	IB 469, Evolutionary Survey of Plants
IB 102, Plants, People and Environment	IB 490, Independent Study
IB 290, Introduction to Undergraduate Research	IB 510, Discussions in Plant Biology
IB 299, Undergraduate Special Course	IB 514, Discussions in Systematic Biology
IB 335, Plant Systematics	IB 590, Individual Topics
IB 390, Undergraduate Research Experience	IB 599, Thesis Research
IB 467 (as IB 360), Principles of Systematics	

Red Deer College, Red Deer, Alberta, Canada:

BT-180, Plant Systematics

Teaching Excellence

LAS Impact Award (2021)

List of Teachers Ranked as Excellent By Their Students

IB 100: Fall 2013, 2015

IB 390: Fall 1994

IB 360: Fall 2000

IB 335: Spring 1996, 2002, 2006, 2007, 2013, 2018, 2019, 2021

Outstanding Staff Member, Panhellenic Council (1995)

Vice-Chancellor for Academic Affairs Teaching Scholar Award (Aug 1993 – May 1994)

Administrative Service *(only noteworthy service indicated and most dates removed for brevity)*

Campus

Current Committees and Task Forces:

Boldly Illinois Curriculum Innovation Process Task Force (Apr 2025 – present)

Council of Undergraduate Deans (July 2021 – present)

Campus Copyright Task Force Committee (July 2021 – present)

Senate Educational Policy Committee (July 2021 – present)

Past Service:

Big Ten Academic Alliance (BTAA) Course Share Campus Coordinator (July 2021 – May 2024)

Senate Educational Policy Committee 40 Hour Upper-Division Task Force

General Education Board (July 2021 – May 2023)

General Education Course Accreditation for Campus Honors Program

Provost's Student Success Initiative – First Year Academic Experience Task Force

Council for Learning Outcomes Assessment

Life Sciences Working Group on General Education Learning Outcomes

University of Illinois Urbana-Champaign Academic Senator

Senate Committee, Committee on Committees

Biological Sciences Panel, Illinois Board of Higher Education

College of Liberal Arts & Sciences

Current Committees:

LAS Strategic Planning, Re-Design the Student Experience for Today's World Subcommittee (Apr 2025 – present)

Bachelor of Liberal Studies Advisory Committee (Feb 2023 – present)

Dean's Cabinet (July 2021 – present)

LAS Courses and Curricula Committee, Leadership (Fall 2021 – present)

LAS General Education Committee, Leadership (Fall 2021 – present)
LAS Policy and Development Committee, Leadership (Fall 2021 – present)

Past Service:

LAS Critical Courses Committee (Fall 2017 – Spring 2021)
LAS General Education Committee (Fall 2002 – Spring 2004; Fall 2011 – Spring 2014)
LAS Courses and Curricula Committee (Fall 2000 – Spring 2001; Fall 2001 – Spring 2002, Chair)

School of Integrative Biology (previously School of Life Sciences):

Associate Director for Academic Affairs
Graduate Assistance in Areas of National Need (GAANN) program, Director
Academic Integrity Appeals Committee, Chair
Courses and Curricula Committee, Chair
Distinction Committee, Chair
Fellowship Committee, Chair
Steering Committee, Program in Ecology and Evolutionary Biology
Executive Committee
SOLS Reorganization, Undergraduate Curriculum Planning
Faculty & Staff Searches and Review Committees

Department of Plant Biology:

Associate Head
Director of Graduate Studies
Instruction Committee, Chair
Herbarium Committee, Chair
Advisory Committee
Administrative Evaluation Committee, Head Five-Year Reviews
Graduate Student Award Committee, Chair
M.S. and Ph.D. Graduate Student Committees
Peer Teaching Evaluations, Chair
Third Year Review Committees
Promotion Dossier Preparation

Professional:

Associate Editor, Canadian Journal of Botany
Istanbul University Journal of Pharmacy Advisory Board
Grant Proposal Reviewer (NSF, NRC, NRF, NSERC, UI Research Board)
ad hoc Peer Reviewer (Journal Articles, Textbook Chapters)
Promotion, Scholarship, and Tenure Dossier Reviewer
External Ph.D. Thesis Examiner

Teaching Committees, Workshops, Symposia, Retreats, and Mentoring
(only noteworthy and recent activities indicated)

General Education Assembly on the Purpose and Mission of the Program
Student Success Symposia
LAS Excellence in Academic Leadership Program, NCPRE (2021-2022)
Office of the Provost's New Academic Leaders Seminar Series (2021-2022)
Annual Faculty Retreat, Harnessing the Science of Emotion to Spark Learning (Mar 2020)
Mobile Summer Institutes on Scientific Teaching, Scientific Teaching Mentor (2018-2019, 2019-2020)
Mobile Summer Institutes on Scientific Teaching, Scientific Teaching Fellow (2017-2018)
SIB Teaching Retreat Organizer (2019) and participant at prior teaching retreats
SIB Conversation on Teaching and Learning (Fall, 2018)
Transformative Assignments, Mobilizing Students to be Creators (Feb 2019)

Reimagining the Classroom Symposium, Classrooms without Borders (Sept 2018)
 Life Sciences Working Group on General Education Learning Outcomes (Spring 2019)
 College of LAS Critical Courses Committee
 Learning Outcomes Assessment Community Brown Bag
 Campus Conversation on Leadership Education
 Campus Conversation of Undergraduate Education

Publications

138. Zhou, J., N. Junmei, S. Zhou, T. Zhou, Y. Zhang, B. Yang, W. Li, Z. Liu, and **S. R. Downie**. 2025. Phylogenomic analysis of the East Asia clade (Apiaceae subfamily Apioideae) supports its integration into Komarovaceae and prompts taxonomic revisions. *Plant Diversity*, submitted.
137. Zuntini, A.R., T. Carruthers, O. Maurin *et al.* 2024. Phylogenomics and the rise of the angiosperms. *Nature*. <https://doi.org/10.1038/s41586-024-07324-0>
136. Zhou, J., X. Wang, S. Zhou, J. Niu, J. Yue, Z. Liu, and **S. R. Downie**. 2024. Circumscription of the East Asia clade (Apiaceae subfamily Apioideae) and the taxonomic placements of several problematic genera. *Plant Diversity* 46 (2): 206-218: <https://www.sciencedirect.com/science/article/pii/S246826592300149X?via%3Dihub>.
135. Liao, C.-Y., Q. Gao, D. S. Katz-Downie, and **S. R. Downie**. 2022. A systematic study of North American *Angelica* species (Apiaceae) based on nrDNA ITS and cpDNA sequences and fruit morphology. *Journal of Systematics and Evolution* 60 (4): 789-808: <https://onlinelibrary.wiley.com/doi/epdf/10.1111/jse.12702>.
134. Mousavi, S., V. Mozaffarian, K. Mummenhoff, **S. R. Downie**, and S. Zarre. 2022. Systematics of the Iranian genera *Aphanopleura*, *Demavendia*, *Haussknechtia*, *Psammogeton*, and *Zeravschania* (Apiaceae tribe Pimpinelleae). *Plant Systematics and Evolution*, 308 (2): <https://doi.org/10.1007/s00606-021-01792-x>.
133. Yang, C., X.-Y. Yao, Z.-X. Chen, **S. R. Downie**, and Q.-Z. Wang. 2022. The chloroplast genomes of *Sanicula* (Apiaceae): plastome structure, comparative analyses and phylogenetic relationships. *Nordic Journal of Botany* 2022 (8): <https://doi.org/10.1111/njb.03549>.
132. Clarkson, J. J., A. R. Zuntini, O. Maurin, **S. R. Downie**, G. M. Plunkett, A. A. Nicolas, J. F. Smith, M. A. E. Feist, K. Gutierrez, P. Malakasi, P. Bailey, G. E. Brewer, N. Epiawalage, S. Zmarzty, F. Forest and W. J. Baker. 2021. A higher-level nuclear phylogenomic study of the carrot family (Apiaceae). *American Journal of Botany* 108 (7): 1252-1269: <https://bsapubs.onlinelibrary.wiley.com/doi/10.1002/ajb2.1701>.
131. Ottenlips, M. V., D. H. Mansfield, S. Buerki, M. A. E. Feist, **S. R. Downie**, S. Dodsworth, F. Forest, G. M. Plunkett, and J. F. Smith. 2021. Resolving species boundaries with the Angiosperms353 probe set in a recent radiation: The *Lomatium packardiae*/*L. anomalum* clade of the *L. triternatum* (Apiaceae) complex. *American Journal of Botany* 108 (7): 1217-1233: <https://bsapubs.onlinelibrary.wiley.com/doi/10.1002/ajb2.1676>.
130. Mousavi, S., V. Mozaffarian, K. Mummenhoff, **S. R. Downie**, and S. Zarre. 2021. An updated lineage-based tribal classification of Apiaceae subfamily Apioideae with special focus on the Iranian genera. *Systematic and Biodiversity* 19(1): 89-109: <https://www.tandfonline.com/doi/full/10.1080/14772000.2020.1834002>.
129. Zhou, J., Y.-Z. Gao, J. Wei, Z.-W. Liu, and **S. R. Downie**. 2020. Molecular phylogenetics of *Ligusticum* (Apiaceae) based on nrDNA ITS sequences: rampant polyphyly, placement of the Chinese endemic species, and a much-reduced circumscription of the genus. *International Journal of Plant Sciences* 181 (3): 306-323: <https://www.journals.uchicago.edu/doi/full/10.1086/706851>
128. Chang, H., **S. R. Downie**, H. Peng, and F. Sun. 2019. Floral organogenesis in three members of the tribe Delphinieae (Ranunculaceae). *Plants* 8 (11), 493: <https://doi.org/10.3390/plants8110493>

127. Spalik, K., A. Wojewódzka, T. Constantinidis, **S. R. Downie**, M. Gierek, and L. Banasiak. 2019. *Laserocarpum*, a new genus of Apiaceae endemic to Greece. *Acta Societatis Botanicorum Poloniae* 88 (3): <https://pbsociety.org.pl/journals/index.php/asbp/article/view/asbp.3635>
126. Mustafina, F. U., D.-K. Yi, K. Choi, C. H. Shin, K. S. Tojibaev, and **S. R. Downie**. 2019. A comparative analysis of complete plastid genomes from *Prangos fedtschenkoi* and *P. lipskyi* (Apiaceae). *Ecology and Evolution* 9: 364-377: <https://onlinelibrary.wiley.com/doi/full/10.1002/ece3.4753>
125. Wojewódzka, A., J. Baczyński, L. Banasiak, **S. R. Downie**, A. Czarnocka-Cieciura, M. Gierek, I. Frankiewicz, and K. Spalik. 2019. Evolutionary shifts in fruit dispersal syndromes in Apiaceae tribe Scandiceae. *Plant Systematics and Evolution* 305: 401-414: <https://link.springer.com/article/10.1007/s00606-019-01579-1>
124. Chen, Z.-X., X.-Y. Yao, **S. R. Downie**, and Q.-Z. Wang. 2019. Assembling and analysis of the *Sanicula orthacantha* chloroplast genome. *Biodiversity Science* 27: 366-372: <https://www.biodiversity-science.net/EN/10.17520/biods.2018332> [in Chinese]
123. Chen, Z.-X., X.-Y. Yao, **S. R. Downie** and Q.-Z. Wang. 2019. Fruit features of 15 species of *Sanicula* (Apiaceae) and their taxonomic significance. *Plant Science Journal* 37: 1-9: <https://plantscience.cn/cn/article/doi/10.11913/PSJ.2095-0837.2019.10001> [in Chinese]
122. Chen, Z.-X., **S. R. Downie** and Q.-Z. Wang. 2019. Review of the taxonomy, origin and evolution of *Sanicula* (Umbelliferae). *Plant Science Journal* 36: 136-143. [in Chinese]
121. Wang, Q. Z., **S. R. Downie**, and Z. X. Chen. 2018. Genome-wide searches and molecular analyses highlight the unique evolutionary path of flavone synthase I (FNS1) in Apiaceae. *Genome* 61: 103-109: <https://cdnsiencepub.com/doi/10.1139/gen-2017-0117>
120. Smith, J. F., D. H. Mansfield, M. Stevens, E. Sosa, M. A. E. Feist, **S. R. Downie**, G. M. Plunkett, and M. Darrach. 2018. Try tri again?: Resolving species boundaries in the *Lomatium triternatum* (Apiaceae) complex. *Journal of Systematics and Evolution* 56: 218-230: <https://onlinelibrary.wiley.com/doi/10.1111/jse.12418>
119. Danderson, C. A., **S. R. Downie**, and M. Hermann. 2018. Rampant polyphyly in the *Arracacia* clade (Apiaceae) and an assessment of the phylogenetic utility of 20 noncoding plastid loci. *Molecular Phylogenetics and Evolution* 118: 286-305: <https://www.sciencedirect.com/science/article/pii/S1055790317302105?via%3Dihub>
118. Mansfield, D. H., M. Darrach, **S. R. Downie**, M. A. E. Feist, R. L. Hartman, K. M. Mason, G. M. Plunkett and J. F. Smith. 2017. New combinations in *Pseudocymopterus* and *Cymopterus* (Apiaceae). *Phytoneuron* 57: 1-4: <https://www.phytoneuron.net/2017Phytoneuron/59PhytoN-CymopterusCombs.pdf>
117. Feist, M. A. E., J. F. Smith, D. H. Mansfield, M. Darrach, R. P. McNeill, **S. R. Downie**, G. M. Plunkett and B. L. Wilson. 2017. New combinations in *Lomatium* (Apiaceae, subfamily Apioideae). *Phytotaxa* 316: 95-98: <https://www.biotaxa.org/Phytotaxa/article/view/phytotaxa.316.1.11>
116. Sun, F.-J. and **S. R. Downie**. 2017 (publ 2025). *Perideridia*, Apiaceae. In: *Flora of North America* Editorial Committee, eds. 1993+. *Flora of North America North of Mexico*. 25+ vols. New York and Oxford. Vol. 13, pp 462-470.
115. Liu, M. and **S. R. Downie**. 2017. The phylogenetic significance of fruit anatomical and micromorphological structures in Chinese *Heracleum* species and related taxa (Apiaceae). *Systematic Botany* 42: 313-325.

114. Menemen, Y., A. Kandemir, and **S. R. Downie**. 2016. *Pastinaca erzincanensis* (Apiaceae), a new species from eastern Turkey and its phylogenetic position within Tordylieae. *Annales Botanici Fennici* 53: 373-382.
113. Wang, Q. Z., M. Huang, **S. R. Downie**, and Z. X. Chen. 2016. Development of expressed sequence tag-simple sequence repeat markers for genetic characterization and population structure analysis of *Praxelis clematidea* (Asteraceae). *Genetics and Molecular Research* 15 (2): gmr 15028038.
112. Zakharova, E. A., E. V. Kljuykov, G. V. Degtjareva, T. H. Samigullin, U. A. Ukrainskaya, and **S. R. Downie**. 2016. A taxonomic study of the genus *Hellenocarum* H. Wolff (Umbelliferae - Apioideae) based on morphology, fruit anatomy, and molecular data. *Turkish Journal of Botany* 40: 176-193.
111. Calviño, C. I., F. E. Teruel, and **S. R. Downie**. 2016. The role of the Southern Hemisphere in the evolutionary history of Apiaceae, a mostly north temperate plant family. *Journal of Biogeography* 43: 398-409.
110. Jogesh, T., R. Peery, **S. R. Downie**, and M. R. Berenbaum. 2015. Patterns of genetic diversity in the globally invasive species wild parsnip (*Pastinaca sativa*). *Invasive Plant Science and Management* 8: 415-429. Popular press coverage: Bee Culture, the Magazine of American Beekeeping (Feb 1, 2016); AG Professional (Jan 29, 2016); Weed Science Society of America (Feb 14, 2016); Hawaii News Now (Jan 29, 2016).
109. Wang, Q. Z., M. Huang, **S. R. Downie**, and Z. Chen. 2015. Genetic diversity and structure of the noxious alien grass *Praxelis clematidea* in southern China. *Biochemical Systematics and Ecology* 59: 183-189.
108. **Downie, S. R.** and R. K. Jansen. 2015. A comparative analysis of whole plastid genomes from the Apiales: Expansions and contraction of the inverted repeat, mitochondrial to plastid transfer of DNA, and identification of highly divergent noncoding regions. *Systematic Botany* 40: 336-351.
107. Liu, J., L. Shi, J. Han, G. Li, H. Lu, J. Hou, X. Zhou, F. Meng, and **S. R. Downie**. 2014. Identification of species in the angiosperm family Apiaceae using DNA barcodes. *Molecular Ecology Resources* 14: 1231-1238.
106. **Downie, S. R.**, R. M. Peery, and R. K. Jansen. 2014. Another first for the Apiaceae: Evidence for mitochondrial DNA transfer into the plastid genome. *Journal of the Faculty of Pharmacy of Istanbul University* 44: 131-144.
105. Wang, Z.-X., **S. R. Downie**, J.-B. Tan, C.-Y. Liao, Y. Yu, and X.-J. He. 2014. Molecular phylogenetics of *Pimpinella* and allied genera (Apiaceae), with emphasis on Chinese native species, inferred from nrDNA ITS and cpDNA intron sequence data. *Nordic Journal of Botany* 32: 642-657.
104. George, E. E., D. H. Mansfield, J. F. Smith, R. L. Hartman, **S. R. Downie**, and C. E. Hinchliff. 2014. Phylogenetic analysis reveals multiple cases of morphological parallelism and taxonomic polyphyly in *Lomatium* (Apiaceae). *Systematic Botany* 39: 662-675.
103. Spalik, K., Ł. Banasiak, M. A. E. Feist, and **S. R. Downie**. 2014. Recurrent short-distance dispersal explains wide distributions of hydrophytic umbellifers (Apiaceae tribe Oenantheae). *Journal of Biogeography* 41: 1559-1571.
102. Liao, C.-Y., **S. R. Downie**, Q. Li, Y. Yu, X.-J. He, and B. Zhou. 2013. New insights into the phylogeny of *Angelica* and its allies (Apiaceae) with emphasis on East Asian species, inferred from nrDNA, cpDNA, and morphological evidence. *Systematic Botany* 38: 266-281.
101. Banasiak, Ł., M. Piwczyński, T. Uliński, **S. R. Downie**, M. F. Watson, B. Shakya, and K. Spalik. 2013. Dispersal patterns in space and time: a case study of Apiaceae subfamily Apioideae. *Journal of Biogeography* 40: 1324-1335.

100. Ming, R., R. VanBuren, Y. Liu, M. Yang, Y. Han, L.-T. Li, Q. Zhang, M.-J. Kim, M. C. Schatz, M. Campbell, J. Li, J. E. Bowers, H. Tang, E. Lyons, A. A. Ferguson, G. Narzisi, D. R. Nelson, C. E. Blaby-Haas, A. R. Gschwend, Y. Jiao, J. P. Der, F. Zeng, J. Han, X. J. Min, K. A. Hudson, R. Singh, A. K. Grennan, S. J. Karpowicz, J. R. Watling, K. Ito, S. A. Robinson, M. E. Hudson, Q. Yu, T. C. Mockler, A. Carroll, Y. Zheng, R. Sunkar, R. Jia, N. Chen, J. Arro, C. M. Wai, E. Wafula, A. Spence, Y. Han, L. Xu, J. Zhang, R. Peery, M. J. Haus, W. Xiong, J. A. Walsh, J. Wu, M.-L. Wang, Y. J. Zhu, R. E. Paull, A. B. Britt, C. Du, **S. R. Downie**, M. A. Schuler, T. P. Michael, S. P. Long, D. R. Ort, J. W. Schopf, D. R. Gang, N. Jiang, M. Yandell, C. W. dePamphilis, S. S. Merchant, A. H. Paterson, B. B. Buchanan, S. Li, and J. Shen-Miller. 2013. Genome of the long-living sacred lotus (*Nelumbo nucifera* Gaertn.). *Genome Biology* 14:R41.
99. Brullo, C., S. Brullo, **S. R. Downie**, C. A. Danderson, and G. G. del Galdo. 2013. *Siculosciadium*, a new monotypic genus of Apiaceae from Sicily. *Annals of the Missouri Botanical Garden* 99: 1-18.
98. Liao, C.-Y., **S. R. Downie**, Y. Yu, and X.-J. He. 2012. Historical biogeography of the *Angelica* group (Apiaceae tribe Selineae) inferred from analyses of nrDNA and cpDNA sequences. *Journal of Systematics and Evolution* 50: 206-217.
97. Feist, M. A. E., **S. R. Downie**, A. R. Magee, and M. Liu. 2012. Revised generic delimitations for *Oxypolis* and *Ptilimnium* (Apiaceae) based on leaf morphology, comparative fruit anatomy, and phylogenetic analysis of nuclear rDNA ITS and cpDNA *trnQ-trnK* intergenic spacer sequence data. *Taxon* 61(2): 402-418.
96. **Downie, S.R.**, D. M. Ruffatto, and K. R. Robertson. 2012 to present. Systematics of Plants. Family Notes and Laboratory Exercises for Integrative Biology 335, Systematics of Plants, University of Illinois at Urbana-Champaign. Printed and distributed locally.
95. Yu, Y., **S. R. Downie**, X. He, X. Deng, and L. Yan. 2011. Phylogeny and biogeography of Chinese *Heracleum* (Apiaceae tribe Tordylieae) with comments on their fruit morphology. *Plant Systematics and Evolution* 296: 179-203.
94. Bone, T. S., **S. R. Downie**, J. M. Affolter, and K. Spalik. 2011. A phylogenetic and biogeographic study of the genus *Lilaeopsis* (Apiaceae tribe Oenantheae). *Systematic Botany* 36: 789-805.
93. Magee, A. R., B.-E. van Wyk, P. M. Tilney, and **S. R. Downie**. 2010. Phylogenetic position of African and Malagasy *Pimpinella* species and related genera (Apiaceae, Pimpinelleae). *Plant Systematics and Evolution* 288: 201-211.
92. Sun, F.-J. and **S. R. Downie**. 2010. Phylogenetic analyses of morphological and molecular data reveal major clades within the perennial, endemic western North American Apiaceae subfamily Apioideae. *Journal of the Torrey Botanical Society* 137: 133-156.
91. Logacheva, M. D., C. M. Valiejo-Roman, G. V. Degtjareva, J. M. Stratton, **S. R. Downie**, T. H. Samigullin, and M. G. Pimenov. 2010. A comparison of nrDNA ITS and ETS loci for phylogenetic inference in the Umbelliferae: an example from tribe Tordylieae. *Molecular Phylogenetics and Evolution* 57: 471-476.
90. Spalik, K., M. Piwczyński, C. A. Danderson, R. Kurzyna-Młynik, T. S. Bone, and **S. R. Downie**. 2010. Amphitropic amphiantarctic disjunctions in Apiaceae subfamily Apioideae. *Journal of Biogeography* 37: 1977-1994.
89. Magee, A. R., C. I. Calviño, M. Liu, **S. R. Downie**, P. M. Tilney, and B.-E. van Wyk. 2010. New tribal delimitations for the early diverging lineages of Apiaceae subfamily Apioideae. *Taxon* 59: 567-580.

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60. Calviño, C. I. and **S. R. Downie**. 2010. Systematics of Apiaceae subfamilies Apioideae and Saniculoideae: phylogenetic affinities and biogeographic implications. VI Southern Connections Congress, Bariloche, Argentina.
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54. Spalik, K. and **S. R. Downie**. 2008. Did dispersal or morphological novelties drive diversification of Apiaceae tribe Oenantheae? *Proceedings of the 6th International Symposium on the Apiales*, Moscow State University, Moscow, Russia.
53. Magee, A. R., B.-E. van Wyk, P. M. Tilney, A. A. Oskolski, and **S. R. Downie**. 2008. New generic circumscriptions of southern African peucedanoid genera. *Proceedings of the 6th International Symposium on the Apiales*, Moscow State University, Moscow, Russia.
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51. Feist, M. A. and **S. R. Downie**. 2008. Changes to the generic delimitation of *Oxypolis* and *Ptilimnium* based on nrDNA ITS and cpDNA sequence data. *Botany 2008 Meetings*, University of British Columbia, Vancouver, Canada.
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30. Spalik, K., A. Wojewódzka, and **S. R. Downie**. 2005. Reconstructing common ancestors using mapping of qualitative and quantitative characters: a case study of Apiaceae tribe Scandiceae. XVII International Botanical Congress, Vienna, Austria.
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23. Clarke, H. D., D. S. Seigler, and **S. R. Downie**. 1998. Systematics and biogeography of *Acacia* subgenus *Acacia* in the West Indies. American Journal of Botany 85(6): 120.
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11. Clarke, H. D., **S. R. Downie**, and D. S. Seigler. 1993. Systematics of New World *Acacia* series *Gummiferae* (Fabaceae: Mimosoideae): evidence from chloroplast DNA restriction site mapping. *American Journal of Botany* 80(6): 137.
10. **Downie, S. R.** 1993. Molecular systematics of Umbelliferae subfamily Apioideae: preliminary investigations. *American Journal of Botany* 80(6): 146.
9. **Downie, S. R.**, D. S. Katz-Downie, and J. D. Palmer. 1993. Internal plasticity and multiple gene loss of the largest chloroplast gene during angiosperm evolution. *American Journal of Botany* 80(6): 146-147.
8. Knox, E., **S. R. Downie**, and J. D. Palmer. 1991. Phylogenetic relationships in the Lobeliaceae based on chloroplast DNA restriction site mutations and major structural rearrangements. *American Journal of Botany* 78(6): 197.
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6. **Downie, S. R.** and J. D. Palmer. 1990. Chloroplast DNA evidence for phylogenetic relationships in the Asteridae. *American Journal of Botany* 77(6): 112.
5. **Downie, S. R.** and J. D. Palmer. 1989. Chloroplast DNA rearrangement variation in the Asteridae: phylogenetic implications. *American Journal of Botany* 76(6): 238.
4. **Downie, S. R.** 1988. The status of *Euphrasia borealis*, *E. nemorosa* and *E. stricta* in eastern North America: a numerical analysis. *American Journal of Botany* 75(6): 171.
3. **Downie, S. R.** 1988. *Arnica angustifolia* (Asteraceae): a circumpolar polyploid complex. *American Journal of Botany* 75(6): 171.
2. **Downie, S. R.** and K. E. Denford. 1987. *Arnica fulgens* and *A. sororia* (Asteraceae): a biosystematic study. *American Journal of Botany* 74(5): 732.
1. **Downie, S. R.** and K. E. Denford. 1986. A biosystematic study of the *Arnica frigida* – *louiseana* complex. *American Journal of Botany* 73(5): 760-761.

Graduate Student Supervision

- Jones, Lance, Ph.D., Aug 2021 – July 2024 . Systematics of *Lomatium dissectum/multifidum*.
- Peery, Rhiannon, Ph.D. 2015, Aug 2009 – May 2015, Understanding angiosperm genome interactions and evolution: insights from sacred lotus (*Nelumbo nucifera*) and the carrot family (Apiaceae).
- Feist, Mary Ann E., Ph.D. 2011, Aug 2002 – May 2011, A phylogenetic and monographic study of *Oxypolis*, *Ptilimnium*, and closely related genera (Apiaceae).
- Danderson, Clark A., Ph.D. 2011, Aug 2005 – May 2011, A systematic study of the *Arracacia* clade.
- Cordes, Jenny M., M.S. 2009, Aug 2006 – May 2009, A systematic study of poison hemlock (*Conium*, Apiaceae).
- Calviño, Carolina I., Ph.D. 2007, Aug 2002 – Nov 2007, Systematic studies within Apioideae, Saniculoideae and *Eryngium* L. (Apiaceae): molecular phylogenies, evolution of morphological characters, and historical biogeography.
- Bone, Tiffany, M.S. 2007, Aug 2004 – May 2007, A phylogenetic and biogeographic study of the umbellifer genus *Lilaeopsis*.
- Sun, Fengjie, Ph.D. 2003, Sep 1997 – Sep 2003, A phylogenetic study of *Cymopterus* (Apiaceae) and its allies.
- Hardway, Tricia, M.S. 2001, Sep 1997 – July 2001, A phylogenetic study of Apiaceae tribe Oenantheae.
- Byoungyoon Lee, Ph.D. 1998, Sep 1993 – May 1998, A phylogenetic study of Apiaceae tribe Caucalideae.
- Ramanath, Seemanti, M.S. 1997, Sep 1993 – May 1997, A molecular phylogeny of Apiaceae subfamily Apioideae using evidence from the internal transcribed spacer (ITS) region of nuclear ribosomal DNA.

International Visitors and Postdoctoral Research Associates

- Dr. Askin Akpulat, Sivas Cumhuriyet University, Turkey (Sept 2024 – Aug 2025)
- Dr. Bao-Cheng Wu, Nanjing Botanical Garden, China (Jan 2022 – Jan 2023)
- Dr. Chenyang Liao, Sichuan University, China (Sept 2017 – Sept 2018)
- Dr. Taner Özcan, Balıkesir University, Turkey (May 2016 – Oct 2016)
- Dr. Qizhi Wang, Huaqiao University, China (Sept 2014 – Sept 2015)
- Dr. Hong-Li Chang, Northwest University, China (July 2013 – Mar 2014)
- Dr. Yue Xu, Jilin University, China (May 2011 – Apr 2012)
- Dr. Anthony R. Magee, University of Johannesburg, South Africa (Aug 2008)
- Dr. Changshook Lee, Seoul National University, Korea (Aug 2002 – July 2003)
- Dr. Carolina I. Calviño, Instituto de Botánica Darwinion, Argentina (Aug 2002 – Aug 2006; July 2007 – Nov 2007)
- Dr. Krzysztof Spalik, University of Warsaw, Poland (May 1997 – Aug 1997; May 1998 – Aug 1998; July 2002 – Aug 2002; July 2003 – Aug 2003)
- Dr. Christine Desfeux, postdoc (Sept 1996 – May 1997)
- Dr. Carmen Valiejo-Roman, Moscow State University, Russia (Oct 1995 – Nov 1995; June 1996 – Sept 1996)
- Dr. Aleksey V. Troitsky, Moscow State University, Russia (Oct 1995)
- Dr. Gregory M. Plunkett, postdoc (Aug 1995 – Aug 1996)
- Dr. Kyung-Jin Cho, Korea University (Jan 1993 – Dec 1994)

Graduate Student Committees

Kollipara, Krishna P. (Ph.D. 1993)
Song, Choon-Bok (Ph.D. 1993)
Potgieter, Kurt (Ph.D. 1998)
Clark, H. David (Ph.D. 1995)
Khashnobish, Aruna (Ph.D. 1995)
Hill, Jerry L. (Ph.D. 1998)
Lee, Jeongran (Ph.D. 2000)
Anderson, Jennifer (M.S. 2000)
McKenna, Duane (M.S. 2000)
Kiss, Andor (Ph.D. 2002)
Glass, Catherine (Ph.D. 2003)
Taylor, Chris (Ph.D. 2003)
Favret, Colin (Ph.D. 2003)
Hauser, Christopher (M.S. 2004)
Mah, Christopher (Ph.D. 2005)
Danderson, Clark (M.S. 2005)
Anderson, Lynn (Ph.D. 2006)

Raja, Huzefa (Ph.D. 2007)
Sagun, Vernie (Ph.D. 2007)
Choi, Won-Young (Ph.D. 2006)
Riggins, Chance (Ph.D. 2008)
Lynch, Tara (M.S. 2008)
Chaudhary, Preeti (Ph.D. 2007)
Zahniser, James (Ph.D. 2008)
Magee, Anthony R. (Ph.D. 2009)
Zhou, Jing (Ph.D. 2009)
Aryal, Rishi (Ph.D. 2013)
Arro, Jie A. (Ph.D. 2014)
Jogesh, Tania (Ph.D. 2014)
Zelski, Steve (Ph.D. 2015)
Belaffif, Mohammad B. (Ph.D. 2016)
Wadlington, William H. (Ph.D. 2017)
Jason Karakehian (Ph.D. 2024)

Undergraduate or Graduate Students Mentored

(as IB/PLBIO 290, 390, or 490, or Ronald E. McNair, NSF REU, NIH Summer Research, or Hughes Research Programs)

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Societal Memberships

American Society of Plant Systematists
Botanical Society of America
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