

## Stephen R. Downie, Ph.D.

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Academic profiles available in:

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/>)  
Scopus (<https://www.scopus.com/authid/detail.uri?authorId=7005106518>)  
Illinois Experts (<https://experts.illinois.edu/en/persons/stephen-r-downie>)

### 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, Ontario, Canada  
(Sept 1978 – May 1982)

### Professional Experience

#### ***Current or Recent Positions at University of Illinois:***

Interim Associate Dean for Curricula and Academic Policy, College of LAS (July 2021 – present)  
Curator, University of Illinois Vascular Plant Herbarium (ILL) (Mar 2019 – present)  
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)  
Professor, Dept of Plant Biology (Aug 2004 – present)  
Faculty Member, Program in Ecology, Evolution and Conservation Biology (June 1998 – present)

#### ***Previous Positions at University of Illinois:***

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)

## **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 and Learning Interests**

Effective pedagogy  
General Education Biology  
Plant Systematics  
Introductory Biology  
Undergraduate Education

## **Graduate Student Training Grant**

**Downie, S. R.**, 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. These funds have supported 8-12 graduate student fellowships per year over three years in the School of Integrative Biology.

## **Teaching Committees, Workshops, Symposia, Retreats and Mentoring (*past eight years*)**

LAS Excellence in Academic Leadership program participant, 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 (Aug 2017 – present)  
Learning Outcomes Assessment Community Brown Bag (May 2019)  
Campus Conversation on Leadership Education (Fall 2014)  
Campus Conversation of Undergraduate Education (Fall 2013)

## Teaching Excellence and Awards

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)

## Fellowships, Scholarships and Awards

College of LAS Alumni Discretionary Award (2006, 2003, 2002)

Robert T. and Laura L. Fraley Young Faculty Award (1992)

NSERC of Canada Government Laboratory Visiting Fellowship (1988)

NSERC of Canada Postdoctoral Fellowship (1988 – 1990)

University of Alberta Graduate Faculty Fellowship (1986)

Lionel Cinq-Mars Award for Best Student Presentation, Canadian Botanical Association (1986)

University of Alberta Dissertation Fellowship (1986 – 1987)

NSERC of Canada Postgraduate Scholarship (1985)

## Scholarly Accomplishments

137. Liao, C., M. Yang, Q. Gao, K. Feng, and **S. R. Downie**. 2022. Characterization of the complete chloroplast genome of *Angelica omeiensis* (Apiaceae) and its phylogenetic placement. Mitochondrial DNA B Resources, submitted Nov 2021.
136. 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, submitted Nov 2021.
135. Mousavi, S., V. Mozaffarian, K. Mummenhoff, **S. R. Downie**, and S. Zarre. 2022. Systematics of the Iranian genera *Aphanopleura*, *Demavendia*, *Hausknechtia*, *Psammogeton*, and *Zeravschania* (Apiaceae tribe Pimpinelleae). Plant Systematics and Evolution, 308: <https://doi.org/10.1007/s00606-021-01792-x>.
134. 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): <https://bsapubs.onlinelibrary.wiley.com/doi/10.1002/ajb2.1701>.
133. 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): <https://bsapubs.onlinelibrary.wiley.com/doi/10.1002/ajb2.1676>.
132. 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>.

131. Liao, C.-Y., Q. Gao, D. S. Katz-Downie, and **S. R. Downie**. 2021. A systematic study of North American *Angelica* species (Apiaceae) based on nrDNA ITS and cpDNA sequences and fruit morphology. *Journal of Systematics and Evolution* <https://onlinelibrary.wiley.com/doi/epdf/10.1111/jse.12702>.
130. 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: 306-323.
129. 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>
128. 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*, <https://doi.org/10.5586/asbp.3635>
127. 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.
126. 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.
125. 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. [in Chinese]
124. 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. [in Chinese]
123. 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]
122. 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.
121. 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.
120. 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.
119. 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.
118. 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.
117. Sun, F.-J. and **S. R. Downie**. 2017. *Perideridia*, Apiaceae. *Flora of North America*, vol. 13, in press.

116. 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.
115. 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.
114. 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.
113. **Downie, S. R.**, R. M. Peery, and R. K. Jansen. 2016. Another first for the Apiaceae: Evidence for mitochondrial DNA transfer into the plastid genome. Proceedings of the VIII International Apiales Symposium, Istanbul. *Journal of the Faculty of Pharmacy of Istanbul University* 44: 131-144.
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.
88. Calviño, C. I., S. G. Martínez, and **S. R. Downie**. 2010. Unraveling the taxonomic complexity of *Eryngium* L. (Apiaceae, Saniculoideae): Phylogenetic analysis of 11 non-coding cpDNA loci corroborates rapid radiations. *Plant Diversity and Evolution (formerly Botanische Jahrbücher)* 128: 137-149.
87. **Downie, S. R.**, K. Spalik, D. S. Katz-Downie, and J.-P. Reduron. 2010. Major clades within Apiaceae subfamily Apioideae as inferred by phylogenetic analysis of nrDNA ITS sequences. *Plant Diversity and Evolution (formerly Botanische Jahrbücher)* 128: 111-136.
86. Sun, F.-J. and **S. R. Downie**. 2010. Phylogenetic relationships among the perennial, endemic Apiaceae subfamily Apioideae of western North America: Additional data from the cpDNA *trnF-trnL-trnT* region continue to support a highly polyphyletic *Cymopterus*. *Plant Diversity and Evolution (formerly Botanische Jahrbücher)* 128: 151-172.
85. Magee, A. R., B.-E. van Wyk, P. M. Tilney, and **S. R. Downie**. 2010. A taxonomic revision of the South African endemic genus *Dasispermum* (Apiaceae, Apioideae). *South African Journal of Botany* 76: 308-323.
84. Reduron, J.-P., J. Mathez, **S. R. Downie**, C. A. Danderson, and T. Ostroumova. 2009. *Pseudoridolfia*, nouveau genre d'Apiaceae découvert au Maroc. *Acta Botanica Gallica* 156: 487-500.
83. Magee, A. R., B.-E. van Wyk, P. M. Tilney, F. Sales, I. Hedge, and **S. R. Downie**. 2009. *Billburtia*, a new genus of Apiaceae (tribe Apieae) endemic to Madagascar. *Plant Systematics and Evolution* 283: 237-245.
82. Feng, T., **S. R. Downie**, Y. Yu, X. Zhang, W. Chen, X. He, and S. Liu. 2009. Molecular systematics of *Angelica* and allied genera (Apiaceae) from the Hengduan Mountains of China based on nrDNA ITS sequences: Phylogenetic affinities and biogeographic implications. *Journal of Plant Research* 122: 403-414.
81. Zhou, J., X. Gong, **S. R. Downie**, and H. Peng. 2009. Towards a more robust molecular phylogeny of Chinese Apiaceae subfamily Apioideae: Additional evidence from nrDNA ITS and cpDNA intron (*rpl16* and *rps16*) sequences. *Molecular Phylogenetics and Evolution* 53: 56-68.
80. Magee, A. R., B.-E. van Wyk, P. M. Tilney, and **S. R. Downie**. 2009. Generic delimitations and relationships of the Cape genera *Capnophyllum*, *Dasispermum* and *Sonderina*, the North African genera *Krubera* and *Stoibrax*, and a new monotypic genus of the subfamily Apioideae (Apiaceae). *Systematic Botany* 34: 580-594.
79. Spalik, K., **S. R. Downie**, and M. F. Watson. 2009. Generic delimitations within the *Sium* alliance (Apiaceae tribe Oenantheae) inferred from cpDNA *rps16-5'trnK(UUU)* and nrDNA ITS sequences. *Taxon* 58: 735-748.
78. Magee, A. R., B.-E. van Wyk, P. M. Tilney, and **S. R. Downie**. 2009. A taxonomic revision of *Capnophyllum*. *South African Journal of Botany* 75: 283-291.
77. Tilney, P. M., B.-E. van Wyk, **S. R. Downie**, and C. I. Calviño. 2009. Phylogenetic relationships in the genus *Lichtensteinia* (Apiaceae) based on morphological, anatomical and DNA sequence data. *South African Journal of Botany* 75: 64-82.

76. Magee, A. R., B.-E. van Wyk, P. M. Tilney, and **S. R. Downie**. 2008. *Ezosciadium* (Apiaceae): A taxonomic revision of yet another early diverging South African apioid genus. *Plant Systematics and Evolution* 276: 167-175.
75. **Downie, S. R.**, D. S. Katz-Downie, F.-J. Sun, and C.-S. Lee. 2008. Phylogeny and biogeography of Apiaceae tribe Oenantheae inferred from nuclear rDNA ITS and cpDNA *psbI-5'trnK(UUU)* sequences, with emphasis on the North American Endemics clade. *Botany (formerly Canadian Journal of Botany)* 86: 1039-1064.
74. Kurzyna-Młynik, R., A. A. Oskolski, **S. R. Downie**, R. Kopacz, A. Wojewódzka, and K. Spalik. 2008. Phylogenetic position of the genus *Ferula* (Apiaceae) and its placement in tribe Scandiceae as inferred from nrDNA ITS sequence variation. *Plant Systematics and Evolution* 274: 47-66.
73. Feist, M. A. E. and **S. R. Downie**. 2008. A phylogenetic study of *Oxypolis* and *Ptilimnium* based on nuclear rDNA ITS sequences. *Systematic Botany* 33: 447-458.
72. Sun, F.-J., G. A. Levin, and **S. R. Downie**. 2008. A multivariate analysis of *Pteryxia terebinthina* (Apiaceae). *Journal of the Torrey Botanical Society* 135: 81-93.
71. Calviño, C. I., S. G. Martínez, and **S. R. Downie**. 2008. The evolutionary history of *Eryngium* (Apiaceae, Saniculoideae): Rapid radiations, long distance dispersals, and hybridizations. *Molecular Phylogenetics and Evolution* 46: 1129-1150.
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46. van Wyk, B.-E., P. M. Tilney, M. Liu, A. R. Magee, P. J. D. Winter, C. I. Calviño, and **S. R. Downie**. 2007. Systematic studies of African Apiaceae: a progress report. *South African Journal of Botany* 73(2): 318-319.

XXXIII Annual Conference of the South African Association of Botanists, University of Cape Town, South Africa.

45. **Downie, S. R.** 2007. Tribe Oenantheae: A contribution to a family-wide phylogenetic classification of Apiaceae. Plant Biology and Botany 2007 Joint Congress, Chicago, Illinois.
44. Peery, R., **S. R. Downie**, J. V. Kuehl, J. L. Boore, and L. A. Raubeson. 2007. Chloroplast genome evolution in Apiaceae. Plant Biology and Botany 2007 Joint Congress, Chicago, Illinois.
43. Cordes, J. M. and **S. R. Downie**. 2007. Ascertaining the phylogenetic position and infrageneric relationships of *Conium*, the odd man out. Plant Biology and Botany 2007 Joint Congress, Chicago, Illinois.
42. Danderson, C. A. and **S. R. Downie**. 2007. Resolving phylogenetic relationships within the apioid superclade (Apiaceae subfamily Apioideae) using cpDNA sequence data, with emphasis on tribe Apieae. Plant Biology and Botany 2007 Joint Congress, Chicago, Illinois.
41. Calviño, C. I. and **S. R. Downie**. 2007. Phylogenetic relationships within Apiaceae subfamily Saniculoideae based on cpDNA *trnQ-trnK* 5'exon sequences. Plant Biology and Botany 2007 Joint Congress, Chicago, Illinois.
40. Spalik, K. and **S. R. Downie**. 2007. Phylogeny and biogeography of *Cryptotaenia* and related taxa, with emphasis on Macaronesian endemics (Magnoliophyta, Family Apiaceae). Third International Biogeography Society Conference, Tenerife, Canary Islands.
39. Calviño, C. I., **S. R. Downie**, P. Tilney, and B.-E. van Wyk. 2005. The phylogenetic positions of southern African Apiaceae relative to subfamilies Apioideae and Saniculoideae. Botany 2005 Meetings, Austin, Texas.
38. Feist, M. A. and **S. R. Downie**. 2005. A phylogenetic examination of *Oxyopolis* and *Ptilimnium* (Apiaceae) using nuclear ribosomal DNA ITS sequences. Botany 2005 Meetings, Austin, Texas.
37. Bone, T. S., **S. R. Downie**, and J. M. Affolter. 2005. A phylogenetic study of the genus *Lilaeopsis* (Apiaceae). Botany 2005 Meetings, Austin, Texas.
36. van Wyk, B.-E., **S. R. Downie**, P. M. Tilney, and N. N. Phephu. 2005. A taxonomic study of the woody southern African species of *Peucedanum*. Proceedings of the Apiales V Symposium, Vienna, Austria.
35. **Downie, S. R.**, D. S. Katz-Downie, K. Spalik, C.-S. Lee, M. A. Feist, C. Calviño, T. Bone, and F.-J. Sun. 2005. Further phylogenetic studies in Apiaceae tribe Oenantheae: generic-level relationships and resolution within the "North American endemics" clade. Proceedings of the Apiales V Symposium, Vienna, Austria.
34. Calviño, C. I., **S. R. Downie**, P. M. Tilney, and B.-E. van Wyk. 2005. Relationships within Apiaceae subfamilies Saniculoideae and Apioideae based on phylogenetic analyses of cpDNA *rps16* intron sequences. Proceedings of the Apiales V Symposium, Vienna, Austria.
33. Spalik, K. and **S. R. Downie**. 2005. The phylogeography of Apiaceae tribe Oenantheae Dumort.: assessing the role of long-distance dispersal in shaping biogeographic patterns in hydrophytes. Proceedings of the Apiales V Symposium, Vienna, Austria.
32. Calviño, C. I., **S. R. Downie**, P. M. Tilney, and B.-E. van Wyk. 2005. Major clades within Apiaceae subfamilies Saniculoideae and basal Apioideae: implications for evolution of the woody habit. XVII International Botanical Congress, Vienna, Austria.



31. Lee, C. and **S. R. Downie**. 2005. A phylogenetic study of water-hemlock (*Cicuta*; Apiaceae tribe Oenantheae). XVII International Botanical Congress, Vienna, Austria.
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.
29. **Downie, S. R.**, F.-J. Sun, and R. L. Hartman. 2003. Relationships among the perennial, endemic umbellifers of western North America as inferred by phylogenetic analysis of nuclear rDNA ITS sequences. Proceedings of the Apiales IV Symposium, Pretoria, South Africa.
28. **Downie, S. R.**, K. Spalik, M. Watson, and D. S. Katz-Downie. 2003. Phylogenetic studies in Apiaceae tribe Oenantheae: circumscription and relationships. Proceedings of the Apiales IV Symposium, Pretoria, South Africa.
27. **Downie, S. R.** 2000. Tribes and clades within Apiaceae subfamily Apioideae: the contribution of molecular data. Botany 2000 Meetings, Portland, Oregon. American Journal of Botany 87(6): 123.
26. Sun, F.-J., **S. R. Downie**, and R. L. Hartman. 2000. A phylogenetic study of *Cymopterus* and related genera. Botany 2000 Meetings, Portland, Oregon. American Journal of Botany 87(6): 161-162.
25. Spalik, K., A. Zochowska, M. Zych, and **S. R. Downie**. 1999. The definition of genera and infrageneric taxa in Apiaceae: some examples from subtribe Scandicinae. XVI International Botanical Congress, St. Louis, Missouri.
24. **Downie, S. R.**, G. M. Plunkett, M. F. Watson, D. S. Katz-Downie, K. Spalik, and B. Lee. 1999. Major clade determination within Apiaceae subfamily Apioideae. XVI International Botanical Congress, St. Louis, Missouri.
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.
22. Hansen, K. A., **S. R. Downie**, L. E. Gilbert, and R. K. Jansen. 1997. Phylogenetic implications of the loss of the *rpoCl* intron in *Passiflora* L. American Journal of Botany 84(6): 200.
21. Lee, B., S. Ramanath, M. Choi, and **S. R. Downie**. 1997. A molecular phylogeny of Umbelliferae tribe Caucalideae: evidence from nuclear ribosomal DNA internal transcribed (ITS) sequences. American Journal of Botany 84(6): 208-209.
20. Potgieter, K., **S. R. Downie**, D. Seigler, and V. Albert. 1996. Preliminary phylogenetic study of the genus *Aspidosperma* (Apocynaceae) using ITS sequence data. American Journal of Botany 83(6): 187.
19. Lee, B., S. Ramanath, and **S. R. Downie**. 1996. Phylogenetic relationships within tribe Caucalideae (Umbelliferae): discordance between nuclear ribosomal ITS and morphological based topologies. American Journal of Botany 83(6): 172.
18. **Downie, S. R.**, G. M. Plunkett, S. Ramanath, D. S. Katz-Downie, D. E. Soltis, and P. S. Soltis. 1996. Relationships in Apiaceae subfamily Apioideae as inferred by phylogenetic analyses of chloroplast and nuclear DNA sequences. American Journal of Botany 83(6): 153.
17. **Downie, S. R.**, D. S. Katz-Downie, and E. Llanas. 1996. Phylogenetic analysis of the cpDNA *rpoCl* intron: sequence variation and multiple losses. American Journal of Botany 83(6): 153.

16. Ramanath, S., D. S. Katz-Downie, and **S. R. Downie**. 1995. A molecular phylogeny of Apiaceae subfamily Apioideae: evidence from nuclear ribosomal DNA. *American Journal of Botany* 82(6): 157.
15. Lee, B., S. Ramanath, and **S. R. Downie**. 1995. Phylogenetic relationships of Umbelliferae tribe Caucalideae: preliminary investigations. *American Journal of Botany* 82(6): 143.
14. **Downie, S. R.**, D. S. Katz-Downie, and K.-J. Cho. 1995. Structural and sequence variation in the highly conserved cpDNA inverted repeat region: implications for higher-level taxonomic studies. *American Journal of Botany* 82(6): 126.
13. Clarke, H. D., **S. R. Downie**, and D. S. Seigler. 1994. Biogeographic and evolutionary implications of chloroplast DNA restriction site variation in New World *Acacia* series *Gummiferae* (Fabaceae: Mimosoideae). *American Journal of Botany* 81(6): 148.
12. **Downie, S. R.**, S. Ramanath, and D. S. Katz-Downie. 1994. A molecular phylogeny of Apiaceae subfamily Apioideae: evidence from nuclear ribosomal DNA internal transcribed spacer sequences and chloroplast DNA restriction site polymorphisms. *American Journal of Botany* 81(6): 153.
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.
7. Logsdon, J. M. Jr., K. H. Wolfe, **S. R. Downie**, and J. D. Palmer. 1991. Chloroplast introns: molecular evolution and phylogenetic studies. *Journal of Cellular Biochemistry, Suppl.* 15D: 71.
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* – *louisiana* complex. *American Journal of Botany* 73(5): 760-761.

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

***Campus:***

Council of Undergraduate Deans (July 2021 – present)  
General Education Board (July 2021 – present)  
Senate Educational Policy Committee (July 2021 – present)  
Senate of the Urbana-Champaign Campus  
Council for Learning Outcomes Assessment (Jan 2022 – present)  
BTAA Course Share Campus Coordinator (July 2021 – present)  
Campus Copyright Task Force Committee (July 2021 – present)  
Provost's Student Success Initiative – First Year Academic Experience Task Force (Spring 2021)  
Life Sciences Working Group on General Education Learning Outcomes (Spring 2019)  
Biological Sciences Panel, Illinois Board of Higher Education

***College of Liberal Arts and Sciences:***

Dean's Cabinet (July 2021 – present)  
Courses and Curricula Committee (Fall 2021 – present)  
General Education Committee (Fall 2021 – present)  
Policy and Development Committee (Fall 2021 – present)  
Critical Courses Committee (Fall 2017 – Spring 2021)  
Council on General Education (Fall 2002 – Spring 2004; Fall 2011 – Spring 2014)  
Committee on Committees (Fall 2006 – Spring 2007; Fall 2010 – Spring 2013)  
Committee on Courses and Curricula (Fall 2000 – Spring 2001; Fall 2001 – Spring 2002, Chair)

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

Associate Director of Academic Affairs (Aug 2017 – July 2021)  
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 (Aug 2002 – Aug 2007)  
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 (Aug 1999 – Aug 2003)  
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

## Graduate Student Supervision

- Jones, Lance, Ph.D., Aug 2021 – present. Research topic not yet determined.
- 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 *Oxyopolis*, *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. Bao-Cheng Wu, Nanjing Botanical Garden, China (Jan 2022 – present)
- 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 02 – Aug 06; July 07 – Nov 07)
- Dr. Krzysztof Spalik, University of Warsaw, Poland (May 97 – Aug 97; May 98 – Aug 98; July 02 – Aug 02; July 03 – Aug 03)
- Dr. Christine Desfeux, postdoc (Sept 96 – May 97)
- Dr. Carmen Valiejo-Roman, Moscow State University, Russia (Oct 95 – Nov 95; June 96 – Sept 96)
- Dr. Aleksey V. Troitsky, Moscow State University, Russia (Oct 95)
- Dr. Gregory M. Plunkett, postdoc (Aug 95 – Aug 96)
- Dr. Kyung-Jin Cho, Korea University (Jan 93 – Dec 94)

## 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, in progress)

## 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)

Approximately 85 students since Spring 1992.

## Societal Memberships

American Society of Plant Systematists  
Botanical Society of America  
International Association for Plant Taxonomy

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