

JAMES C. LENDEMER
INSTITUTE OF SYSTEMATIC BOTANY, THE NEW YORK BOTANICAL GARDEN
BRONX, NY, 10458-5126, USA
E-MAIL: JLENDEMER@NYBG.ORG / PHONE: (1)-718-817-8629

Curator Profile: <https://www.nybg.org/person/james-lendemer/>

Biodiversity Collections: <https://bit.ly/3GzjMM3>

ORCID: <https://orcid.org/0000-0003-1186-0711>

Research Focus

Evolution, ecology, biogeography and reproductive biology of obligate fungal symbioses, with particular emphases on temperate and subtropical regions. Diverse data types generated from large-scale biodiversity inventories, and managed within dynamic biodiversity data frameworks, are used to document and describe biodiversity, understand diverse patterns and processes, and inform conservation/management strategies for ecologically essential organisms.

Themes: Biodiversity infrastructure, biodiversity data organization and management, biogeography, conservation biology and frameworks, dispersal and reproduction, ecology, fungal systematics and taxonomy, lichen biodiversity, symbioses.

Professional Experience and Appointments

2020–present Associate Curator, The New York Botanical Garden, Bronx, NY, U.S.A.
2015–2020 Assistant Curator, The New York Botanical Garden, Bronx, NY, U.S.A.
2015–present Adjunct Assistant Professor, Graduate Center, City University of New York, New York, NY, U.S.A.
2012–2015 Postdoctoral Researcher, The New York Botanical Garden, Bronx, NY, U.S.A.
2007–2012 Doctoral Research Fellow, The New York Botanical Garden, Bronx, NY, U.S.A.
2007–2009 Science Scholar, The New York Botanical Garden, Bronx, NY, U.S.A.
2006 Research Intern, The Field Museum of Natural History, Chicago, IL, U.S.A.
2006 McHenry Fellow, The Academy of Natural Sciences of Philadelphia, Philadelphia, PA, U.S.A.
2004 Curatorial Associate, Arizona State University, Tempe, AZ, U.S.A.
2003–present Research Associate, The Academy of Natural Sciences of Philadelphia, Philadelphia, PA, U.S.A.

Education

2007–2012 Ph.D., Biology – Graduate Center, City University of New York, New York, NY
Dissertation: Lichen Taxonomy for the 21st Century: A revision of the lichen genus *Lepraria* s.l. in North America north of Mexico.
2007-2010 M.Phil., Biology – The Graduate Center, City University of New York, New York, NY
2002–2006 B.A., Biology – The University of Pennsylvania, Philadelphia, PA

Grants (Total: 5.0 million USD; 3.4 million USD excluding collaborator budgets)

2021 National Science Foundation – DEB-2115190 – Collaborative Research: Integrating Digitization, Exploration, Genomics, and Student Training to Illuminate Forces Shaping Appalachian Lichen Distributions – PI at NY, with PI J. Allen (at EWU). \$745,732 (NY) + \$626,373 (EWU) = **\$1,372,105**.
2020 National Science Foundation – DBI-2001354 – Digitization TCN: Collaborative Research: Building a global consortium of bryophytes and lichens: keystones of cryptobiotic communities. – Co-PI at NY (replaced B. Thiers upon retirement), PI Laura Briscoe at NY. **\$530,076**.
2019 Tallassee Fund – First Inventory of Lichens of the Little Tennessee River Drainage, With Emphasis on Low-Elevation and Riparian Communities and Rare Species – PI at NY, with PI E. Tripp (at COLO). NY \$9,296 (NY) + \$23,572 (COLO) = **\$32,868**.
2019 Canadian Museum of Nature Visiting Scientist Award - **\$2500** (CDN).
2018 National Park Service – PMIS 236370 – RBA Enhance rare lichen protection by assessing distribution and vulnerability to management actions – PI at NY, with Wendy Cass (at NPS) **\$74,717**.
2015 National Science Foundation – DEB-1542639 – DIMENSIONS: COLLABORATIVE RESEARCH: Biodiversity Gradients in Obligate Symbiotic Organisms: A Case Study in Lichens in a Global Diversity

- Hotspot – PI at NY, with PIs E. Tripp, N. Kane & C. McCain (at COLO). \$758,699 (NY) + \$1,035,332 (COLO) = **\$1,794,031**.
- 2015 Mohamed bin Zayed Species Conservation Fund** – Project #150510598 – First Conservation and IUCN Red List Assessment of Endangered North American Lichens – **\$3,000**
- 2014 National Science Foundation** – DBI-1348920 – CSBR: Natural History: Expansion of the New York Botanical Garden Herbarium to Incorporate Newly Acquired Specimens and Improve Curation – co-PI, PI-B. Thiers – **\$479,475**.
- 2012 National Science Foundation** – DEB-114551 – “Lichen biodiversity in the threatened Middle Atlantic Coastal Plain of North America: Improving classification, conservation, and communication” – PI, with R.C. Harris (co-PI) – **\$727,597**
- 2012 Great Smoky Mountains Conservation Association** – Lichen diversity, ecology, and conservation in Great Smoky Mountains National Park – PI at NY, with PI E. Tripp (at RSA). – **\$5,000**
- 2011 National Science Foundation** – DEB-1110433 – DISSERTATION RESEARCH: Implementing a pioneering approach to document and describe the taxonomically neglected sterile crustose lichens through a revision of the genus *Lepraria* s.l – co-PI, PI-W.R. Buck – **\$12,290**
- 2011 Tallassee Foundation** – Lichens of the exposed limestone bluffs of western GSMNP – PI at NY, with PI E. Tripp (at RSA). – **\$2,400**
- 2009 Torrey Botanical Society Graduate Student Fellowship** - “Assessing the biological diversity of the genus *Lepraria* s.l. (Lichenized Ascomycetes, Stereocaulaceae) in southeastern North America – **\$2,000**
- 2008 SSB-miniPEET** – “Scripts and Lips: Training in Microlichen Taxonomy and Identification Through of Study of Eastern North American Graphidiaceae” – to E.A. Tripp study w/ J.C. Lendemer & R.C. Harris – **\$2,750**
- 2008 California Lichen Society Student Grant** – Studies in the Genus *Lepraria* in California – **\$1,000**
- 2007 Philadelphia Botanical Club** – Bayard Long Award – Lichens of the Limestone Barrens of the Great Northern Peninsula, Newfoundland, Canada – **\$2,000**
- 2005 Wildlife Resources Conservation Fund (Pennsylvania)** – Preliminary survey of the lichen flora of eastern Pennsylvania II – co-PI, PI-J.A. Macklin.
- 2004 Wildlife Resources Conservation Fund (Pennsylvania)** – Preliminary survey of the lichen flora of eastern Pennsylvania – co-PI, PI-J.A. Macklin.

Awards

- 2020 Tuckerman Award, American Bryological and Lichenological Society** – A revision of *Hypotrachyna* subgenus *Parmelinopsis* (Parmeliaceae) in eastern North America (to James Lendemer & Jessica Allen)
- 2017 Tuckerman Award, American Bryological and Lichenological Society** – A review of the lichen genus *Phlyctis* in North America (Phlyctidaceae) including the description of a new widespread saxicolous species from eastern North America (to Zachary Muscavitch, James Lendemer & Richard Harris)
- 2010 Core Award, Southern Appalachian Botanical Society** – Assessing *Lepraria* (Stereocaulaceae, Lichenized Ascomycetes) biodiversity in the southern Appalachians

Editorial Experience

- 2020–present** Associate Editor, *Brittonia*
- 2016–present** Associate Editor & Nomenclature Editor, *The Bryologist*
- 2015–present** Editor-in-Chief & Indexer, *Recent Literature on Lichens*
- 2012–present** Associate Editor, Nomenclature Column, *Taxon*
- 2004–present** Editor-in-Chief, *Opuscula Philolichenum*
- 2007–present** Corresponding Editor, *Bartonia, Journal of the Philadelphia Botanical Club*
- 2003–present** Editor/Curator, *Lichens of Eastern North America Exsiccata*

Committee Service to Institutions and Societies

- 2023–2026** Plant Sciences Advisory Committee, CUNY Graduate Center/Lehman College
- 2021–2023** Member-at-Large, Executive Committee, American Bryological & Lichenological Society
- 2020–present** Chair, Grants & Awards Committee, Torrey Botanical Society
- 2020–2021** Mycology Curator Hire Search Committee, NYBG (2x)
- 2019** Level II Strategic Planning, NYBG: Digital Infrastructure & Physical Plant Groups
- 2019** Level I Strategic Planning, NYBG: Science & Research Group

2018–2020	Biology PhD Program Representative, Graduate Council, CUNY Graduate Center
2017–present	Lichen Specialist Species Survival Commission, IUCN Red List
2017	Faculty Representative, Biology Curriculum Assessment Committee, CUNY Graduate Center
2016–2018	Faculty Representative (chair 2017-2018), Biology Nominations Committee, CUNY Graduate Center
2016	Alternate, Plant Sciences Advisory Committee, CUNY Graduate Center/Lehman College
2015–present	Nomenclature Committee for Fungi, International Association of Plant Taxonomists
2015	Herbarium Curator Hire Search Committee, NYBG
2012–2017	Subcommittee: Governance of the <i>Code</i> with Respect to Fungi, International Association of Plant Taxonomists
2010–2012	Student Representative, Biology PhD Program Executive Committee, CUNY Graduate Center
2006–present	Bryophyte and Lichen Technical Committee (chair 2008-2011), Pennsylvania Biological Survey
2006–present	Fungal Technical Committee, Pennsylvania Biological Survey

Publications (IUCN Red List assessments and literature indexes listed separately)

[Arranged chronologically by year, and alphabetically by senior author. Submitted, in press, and works in preparation or review are listed first. Supervised students and interns are indicated with underlining.]

Popular Books, Floras and Field Guides

2021

Allen, J.L. and **J.C. Lendemer**. 2021. *Urban Lichens: A Field Guide for Northeastern North America*. Yale University Press, New Haven and London. 158 pp.

2020

Tripp, E. and **J.C. Lendemer**. 2020. *Field Guide to the Lichens of the Great Smoky Mountains*. University of Tennessee Press, Knoxville. 571 pp. [fully illustrated field guide to 800+ species of lichens in America's premier biodiversity hotspot and most visited National Park].

2018

Lendemer, J.C. and N. Noell. 2018. Delmarva Lichens: An Illustrated Manual. [comprehensive flora of 299 species occurring on the Delmarva Peninsula, with illustrations, distribution maps (historical vs. modern), ecology, descriptions, and conservation rankings for each species] *Memoirs of the Torrey Botanical Society* 28: 1-386.

2013

Lendemer, J.C., R.C. Harris and E.A. Tripp. 2013. The lichens and allied fungi of Great Smoky Mountains National Park: an annotated checklist with comprehensive keys. *Memoirs of The New York Botanical Garden* 104: i-viii, 1-152 [effectively published in print 09 January 2013].

Papers, Book Chapters and Popular Articles (IUCN Assessments and literature indexes listed separately)

2023

Asher, O.A., J. Howieson and **J.C. Lendemer**. 2023. A new perspective on the macrolichen genus *Platismatia* (Parmeliaceae, Ascomycota) based on molecular and phenotypic data. *The Bryologist* 126(1): 1–18. [effectively published online 20 January 2023].

Hoffman, J.R., K. Karol, Y. Ohmura, C. Pogoda, K. Keepers, R.T. McMullin and **J.C. Lendemer**. 2023. Mitochondrial genomes in the iconic reindeer lichens: Architecture, variation, and synteny across multiple evolutionary scales. *Mycologia*: 10.1080/00275514.2022.2157665. [effectively published online 3 February 2023].

Koch, N.M., **J.C. Lendemer**, E.A. Manzitto-Tripp, C. McCain and D.E. Stanton. 2023. Carbon-concentrating mechanisms are a key trait in lichen ecology and distribution. *Ecology*: 10.1002/ecy.4011. [effectively published online 22 February 2023].

Lendemer, J.C. and J. Hollinger. 2023. *Schadonia saulskellyana* (Pilocarpaceae; Lichenized Ascomycetes) an unusual new species endemic to the southern Appalachian Mountains of eastern North America. *The Bryologist* 126(1): 111–128. [effectively published online 20 February 2023].

2022

- Allen, J.L. and **J.C. Lendemer**. 2022. A call to reconceptualize lichen symbioses. *Trends in Ecology and Evolution*: 37(7): 582–589. [effectively published online 6 April 2022].
- Curtis, T. and **J.C. Lendemer**. 2022a. A new species of *Halecania* (Leprocaulaceae, Lecanoromycetes) from eastern North America. *Journal of the Torrey Botanical Society* 149(1): 79–85. [effectively published online 28 March 2022].
- Curtis, T. and **J.C. Lendemer**. 2022b. *Catillaria fungoides* (Catillariaceae; Lecanoromycetes) an inconspicuous crustose lichen previously overlooked in eastern North America. *Castanea* 87(1): 12–19. [effectively published online 15 June 2022].
- Egbert, S., J.R. Hoffman, R.T. McMullin, **J.C. Lendemer** and J. Sorensen. 2022. Unraveling usnic acid: A comparison of biosynthetic gene clusters between two reindeer lichen (*Cladonia rangiferina* and *C. uncialis*). *Fungal Biology* 126: 697–706. [effectively published online 27 August 2022].
- Lendemer, J.C.** 2022. *Herpothallon rubrogranulosum*, a new species with granular pseudoisidia from the Mid-Atlantic Coastal Plain of southeastern North America. *Journal of the Torrey Botanical Society* 149(4): 280–285. [effectively published online 30 September 2022].
- Lendemer, J.C.**, F. Bungartz, C.A. Morse and E.A. Tripp. 2022. *Sarcogyne similis* (Acarosporaceae) produces psoromic acid and is confirmed to be widespread in North America. *The Bryologist* 125(1): 91–101. [effectively published online 3 February 2022].
- Lendemer, J.C.** and R.T. McMullin. 2022. Lectotypification of the threatened endemic Appalachian lichen *Alectoria fallacina*. *Taxon* 71(5): 1077–1083. [effectively published online 25 February 2022].
- Lendemer, J.C.** and D. Stone. 2022. *Leptogium stancookii*, a new name for the western North American lichen referred to as *L. cookii* whose type corresponds to *L. saturninum* s. str. *The Lichenologist* 54(1): 85–86. [effectively published online 16 February 2022].
- Mueller, G.M., K.M. Cunha, T.W. May, J.L. Allen, J.R.S. Westrip, C. Canteiro, D.H. Costa-Rezende, E.R. Drechsler-Santos, A.M. Vasco-Palacios, A.M. Ainsworth, G. Alves-Silva, F. Bungartz, A. Chandler, S.C. Gonçalves, I. Krisai-Greilhuber, R. Iršénaitė, J.B. Jordal, T. Kosmann, **J.C. Lendemer**, R.T. McMullin, A. Mešić, V. Motato-Vásquez, Y. Ohmura, R. Reese Næsborg, C. Perini, I. Saar, D. Simijaca, R. Yahr and A. Dahlberg. 2022. What do the first 597 Global Fungal Red List assessments tell us about the threat status of fungi? *Diversity* 14: 736. [effectively published online 7 September 2022].
- Prado, J., R.Y. Hirai, **J.C. Lendemer** and R.C. Moran. 2022. (151) Proposal to add the concept of “typotype” to the Code. *Taxon* 71(3): 708. [effectively published 4 June 2022].
- Tripp, E.A., **J.C. Lendemer** and C.A. McCain. 2022. Most lichens are rare, and degree of rarity is mediated by lichen traits and biotic partners. *Diversity and Distributions* 28(9): 1810–1819. [effectively published online 19 June 2021].
- Ward, E., M. Duguid, S. Kuebbing, **J.C. Lendemer** and M. Bradford. 2022. The functional role of ericoid mycorrhizal plants and fungi on carbon and nitrogen dynamics in forests. *New Phytologist* 235(5): 1701–1718. [effectively published online 15 June 2022].

2021

- England, J.K., **J.C. Lendemer** and E.A. Tripp. 2021. *Rockefellerella crossophylla* (Pannariaceae) rediscovered in Alabama. *Opuscula Philolichenum* 20: 1–6. [effectively published online 18 January 2021].
- Hollinger J.P. and **J.C. Lendemer**. 2021. *Capronia harrisiana* (Ascomycota, Chaetothyriales), a new lichenicolous species on *Crocodia aurata* from the southern Appalachian Mountains of southeastern North America. *The Bryologist* 124(4): 522–532. [effectively published online 3 November 2021].
- Keepers, K.G., C.S. Pogoda, **J.C. Lendemer**, N.C. Kane and E.A. Tripp. 2021. Author response to Tagirdzhanova et al. (2021): “Lichen fungi do not depend on alga for ATP production: A comment on Pogoda et al. (2018)”. *Molecular Ecology* 30(17): 4160–4161 [published online 12 July 2021].
- Lendemer, J.C.** 2021. Proposed best practices for taxonomic innovations in lichen and allied Fungi: A framework derived from analysis of more than 1,000 new taxa and new combinations. *The Bryologist* 124(1): 90–99. [effectively published online 16 March 2021].
- Lendemer, J.C.** and J. Coyle. 2021[2020]. Dissimilar biodiversity data sets yield congruent patterns and inference in lichens. *Botany* 99(2): 55–67. [effectively published online 25 September 2020].
- Lendemer, J.C.** and P.W. Clark. 2021. Between a rock and a hard place: *Chrysothrix susquehannensis* is more widespread in eastern North America than previously thought. *Opuscula Philolichenum* 20: 81–87. [published online 1 November 2021].

- Lendemer, J.C.** and **K. Keepers**. 2021. *Bacidia depriestiana* (Ramalinaceae), a new species from the southern Appalachian Mountains of eastern North America. *The Bryologist* 124(3): 362-375. [effectively published online 26 July 2021].
- Prado, J. and **J.C. Lendemer**. 2021. Guidelines for the preliminary evaluation of general nomenclature manuscripts submitted to Taxon. *Taxon*: 10.1002/tax.12636. [effectively published online 25 November 2021].
- McMullin, R.T., H.R. Dorval, L.J. Gillespie, T.L. Knight, **J.C. Lendemer**, J.R. Maloles & P.C. Sokoloff. 2021. New and interesting Canadian lichens and allied fungi III: Reports from Newfoundland and Labrador, Nova Scotia, Nunavut, Prince Edward Island, Ontario, and Quebec. *Opuscula Philolichenum* 20: 7–18. [effectively published online 13 March 2021].
- Stalter, R., J. Tong and **J.C. Lendemer**. 2021. The flora on the High Line, New York City, New York: A 17-year comparison. *Journal of the Torrey Botanical Society* 148(3): 243–251. [effectively published online 9 September 2021].
- Ward, E., M. Duguid, S. Kuebbing, **J.C. Lendemer**, R. Warren II and M. Bradford. 2021. Ericoid mycorrhizal shrubs alter the relationship between tree mycorrhizal dominance and soil carbon and nitrogen. *Journal of Ecology* 109(10): 3524–3540. [published online 23 June 2021].

2020

- Hansen, C.J., **J.C. Lendemer**, E.A. Tripp, J.L. Allen, W.R. Buck, J.K. England, R.C. Harris, N.M. Howe, R.T. McMullin and D.P. Waters. 2020. Lichens and allied fungi of Central Alabama, U.S.A.: Survey results from the 26th Tuckerman Workshop. *Opuscula Philolichenum* 19: 36–57. [effectively published online 2 July 2020.]
- Hoffman, J.R.** and **J.C. Lendemer**. 2020. *Caloplaca edwardiana* (Teloschistaceae, Lichenized Ascomycetes), a new crustose species from the southern Appalachian Mountains of eastern North America. *The Bryologist* 123(2): 225–234. [effectively published online 10 July 2020].
- Hoffman, J.R.**, Y. Ohmura and **J.C. Lendemer**. 2020. Combing for Beach Broccoli: Surveys of the endemic macrolichen *Cladonia submitis* determines endangered status under IUCN guidelines. *Biodiversity and Conservation* 29: 2439–2456. [effectively published online 12 May 2020].
- Lendemer, J.C.** 2020a. *Leprocaulon beechingii* (Leprocaulaceae), a new species from the southern Appalachian Mountains of eastern North America. *The Bryologist* 123(1): 1–10. [effectively published online 13 January 2020].
- Lendemer, J.C.** 2020b. *Bacidia thiersiana* (Ramalinaceae), a new species with lobaric acid widespread in southeastern North America. *The Bryologist* 123(1): 39–47. [effectively published online 13 January 2020].
- Lendemer, J.C.** 2020c. Disappearing lichens and a southern Appalachian stronghold. *Center for Plant Conservation Newsletter*, May 2020: [1–5]. [popular article about lichen conservation and research in the southern Appalachian Mountains].
- Lendemer, J.C.** 2020d. (014) Proposal to require a statement of “demonstrable ambiguity” for epitype designation. *Taxon* 69(3): 631. [effectively published online 31 July 2020].
- Lendemer J.C.** 2020e. Epitypes Are Forever: Best practices for an increasingly misused nomenclatural action. *Taxon* 69(5): 849–850. [effectively published online 3 August 2020].
- Lendemer, J.C.** and J.L. Allen. 2020. A revision of *Hypotrachyna* subgenus *Parmelinopsis* (Parmeliaceae) in eastern North America. *The Bryologist* 123(2): 265–332. [effectively published online 2 July 2020.]
- McMullin, R.T., B. McCune and **J.C. Lendemer**. 2020. *Bacidia gigantensis* (Ramalinaceae), a new species with homosekikaic acid from the north shore of Lake Superior in Ontario, Canada. *The Bryologist* 123(2): 215–224. [effectively published online 10 July 2020].
- McMullin, R.T., P.C. Sokoloff and **J.C. Lendemer**. 2020. Molecular data reveal the identity of an unusual form of *Calogaya saxicola* and the first report from the Queen Elizabeth Islands in the Canadian High Arctic. *Opuscula Philolichenum* 19: 190–198. [effectively published online 25 December 2020].
- Ray, D.G., G. Cahalan and **J.C. Lendemer**. 2020. Factors influencing the persistence of reindeer lichens (*Cladonia* subgenus *Cladina*) within frequent-fire environments of the Mid-Atlantic Coastal Plain, USA. *Fire Ecology* 16: 1. [effectively published online 9 January 2020].

2019

- Allen, J.L., R.T. McMullin, E.A. Tripp and **J.C. Lendemer**. 2019. Lichen conservation in North America: A review of current practices and research in Canada and the United States. *Biodiversity and Conservation* 28: 3103–3138. [effectively published online 2 August 2019].
- Bowers, D., E. Tripp and **J.C. Lendemer**. 2019. Lichens to Dye For: Testing lichen species for dye colors. *Turkey Red Journal* 23(2): unpaginated. [<http://www.turkeyredjournal.com/bowers.html>]

- Dorey, J.E., J.R. Hoffman, J.L. Martino, **J.C. Lendemer** and J.L. Allen. 2019. First record of *Usnea* growing in New York City in nearly 200 years. *Journal of the Torrey Botanical Society* 146(1): 69–77. [effectively published online 25 February 2019].
- England, J.K., C.J. Hansen, J.L. Allen, S.Q. Beeching, W.R. Buck, V. Charny, J.G. Guccion, R.C. Harris, M. Hodges, N.M. Howe, **J.C. Lendemer**, R.T. McMullin, E.A. Tripp and D.P. Waters. 2019. Checklist of the lichens and allied fungi of Kathy Stiles Freeland Bibb County Glades Preserve, Alabama, U.S.A. *Opuscula Philolichenum* 18: 420–434. [effectively published 2 December 2019].
- Hansen, C.J. and **J.C. Lendemer**. 2019. The first report of the rare lichen species *Phaeophyscia leana* (Physciaceae) from Alabama. *Evansia* 36(1): 1–4.
- Keepers, K.G., C.S. Pogoda, K.H. White, C.R. Anderson Stewart, J.M. Hoffman, A.M. Ruiz, C.M. McCain, **J.C. Lendemer**, N.C. Kane and E.A. Tripp. 2019. Whole genome shotgun sequencing detects greater lichen fungal diversity than amplicon-based methods in environmental samples. *Frontiers Ecology and Evolution* 7: 474. [effectively published online 13 December 2019].
- Lendemer, J.C.** and J.L. Allen. 2019. *Hypotrachyna oprah* (Parmeliaceae, Lichenized Ascomycota), a new foliose lichen with lichexanthone from southeastern North America. *Castanea* 84(1): 24–32. [effectively published online 12 February 2019].
- Lendemer, J.C.**, R.C. Harris and R.T. McMullin. 2019. Studies in lichens and lichenicolous fungi – no. 22: The identities of *Lecidea deminutula*, *L. olivacea* var. *inspersa*, *L. virginiensis* and *Thelenella humilis*. *Opuscula Philolichenum* 18: 90–101. [effectively published online 7 August 2019].
- Lendemer, J.C.**, J.R. Hoffman and J.W. Sheard. 2019. *Rinodina brauniana* (Physciaceae, Teloschistales), a new species with pseudoisidia from the southern Appalachian Mountains of eastern North America. *The Bryologist* 122(1): 111–121. [effectively published 7 March 2019].
- Lendemer, J.C.**, K.G. Keepers, E.A. Tripp, C.S. Pogoda, C.M. McCain and N.C. Kane. 2019. A taxonomically broad metagenomic survey of 339 species spanning 57 families suggests cystobasidiomycete yeasts are not ubiquitous across all lichens. *American Journal of Botany*: 106(8): 1090–1095. [effectively published online 9 August 2019].
- Lendemer, J.C.**, B. Thiers, A.H. Monfils, J. Zaspel, E.R. Ellwood, A. Bentley, K. Levan, J. Bates, D. Jennings, D. Contreras, L. Lagomarsino, P. Mabee, L.S. Ford, R. Guralnick, R.E. Gropp, M. Revelez, N. Cobb, K. Seltmann and M.C. Aime. 2019. The Extended Specimen Network: A strategy to enhance US biodiversity, collections, promote research and education. *BioScience* 70(1): 23–30. [effectively published online 22 November 2019].
- May, T.W., S.A. Redhead, K. Bensch, D.L. Hawksworth, **J.C. Lendemer**, L. Lombard & N.J. Turland. 2019. Chapter F of the *International Code of Nomenclature for algae, fungi, and plants* as approved by the 11th International Mycological Congress, San Juan, Puerto Rico, July 2018. *IMA Fungus* 10: 21. [effectively published 27 December 2019].
- McMullin, R.T., Y.F. Wiersma, S.G. Newmaster and **J.C. Lendemer**. 2019. Risk assessment and conservation strategies for rare lichen species and communities threatened by sea-level rise in the Mid-Atlantic Coastal Plain. *Biological Conservation* 239: 108281. [effectively published 25 October 2019].
- Morse, C.A. and **J.C. Lendemer**. 2019. A new *Biatoridium* from eastern North America, with comments on the disposition of species of *Biatorella sensu* Magnusson. *The Bryologist* 122(1): 1–9. [effectively published 19 January 2019].
- Pogoda, C.S., K.G. Keepers, A.Y. Nadiadi, D.W. Baily, **J.C. Lendemer**, E.A. Tripp and N.C. Kane. 2019. Genome streamlining via complete loss of mitochondrial introns has occurred multiple times in lichenized fungal mitochondria. *Ecology and Evolution* 9(7): 4245–4263. [effectively published online 21 March 2019].
- Tripp, E.A. and **J.C. Lendemer**. 2019. Highlights from 10+ Years of Lichenological Research in Great Smoky Mountains National Park: Celebrating the United States National Park Service Centennial. *Systematic Botany* 44(4): 943–980. [effectively published online 14 November 2019].
- Tripp, E.A., **J.C. Lendemer** and C. McCain. 2019. Habitat quality and disturbance drive lichen species richness in a temperate biodiversity hotspot. *Oecologia* 190(2): 445–457. [effectively published online 15 May 2019].
- Waters, D.P. and **J.C. Lendemer**. 2019a. The lichens and allied fungi of Mercer County, New Jersey. *Opuscula Philolichenum* 18: 17–51. [effectively published 15 March 2019].
- Waters, D.P. and **J.C. Lendemer**. 2019b. A revised checklist of the lichenized, lichenicolous and allied fungi of New Jersey. *Bartonia* 70: 1–63.

2018

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2002

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2000

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IUCN Red List Assessments

2022

Lendemer, J.C. 2022a. *Bacidia schweintizii*. *The IUCN Red List of Threatened Species* 2022: e.T180096939A180096991.

Lendemer, J.C. 2022b. *Lecanora protervula*. *The IUCN Red List of Threatened Species* 2022: e.T180096952A180097001.

Lendemer, J.C. 2022c. *Phlyctis petraea*. *The IUCN Red List of Threatened Species* 2022: e.T180096965A180097016.

Lendemer, J.C. and R.T. McMullin. 2022. *Alectoria fallacina*. *The IUCN Red List of Threatened Species* 2022: e.T194660207A194678104.

2021

Allen, J., R. Yahr, C. Lymbery, R. Batallas-Molina, F. Bungartz, L. Calabria, M. Dal Forno, N. Howe, **J.C. Lendemer**, T. McMullin, A. Mertens, H. Paquette, M. Petix, R. Reese Næsborg, F. Roberts, S. Sharrett and J. Villella. 2021. *Flavoparmelia baltimorensis*. *The IUCN Red List of Threatened Species* 2021: e.T194662214A194678194.

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McMullin, T., D. Stone, **J.C. Lendemer** and J.L. Allen. 2021. *Sulcaria spiralifera*. *The IUCN Red List of Threatened Species* 2021: e.T80703106A80703113.

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Paquette, H., **J.C. Lendemer**, and R. Yahr. 2021. *Bryoria salazinica*. *The IUCN Red List of Threatened Species* 2021: e.T194660286A194678109.

Yahr, R., J. Allen, C. Lymbery, F. Bungartz, R. Batallas-Molina, M. Dal Forno, N. Howe, **J.C. Lendemer**, T. McMullin, A. Mertens, H. Paquette, M. Petix, R. Reese Næsborg, F. Roberts, S. Sharrett, A. Spielmann, R. Vargas and J. Villella. 2021. *Parmotrema crinitum*. *The IUCN Red List of Threatened Species* 2021: e.T194661476A194678149.

Yahr, R., J. Allen, C. Lymbery, R. Batallas-Molina, F. Bungartz, M. Dal Forno, N. Howe, **J.C. Lendemer**, T. McMullin, A. Mertens, H. Paquette, M. Petix, R. Reese Næsborg, F. Roberts, S. Sharrett and J. Villella. 2021. *Parmelia saxatilis*. *The IUCN Red List of Threatened Species* 2021: e.T194660573A194678129.

Yahr, R., J. Allen, C. Lymbery, R. Batallas-Molina, F. Bungartz, M. Dal Forno, N. Howe, **J.C. Lendemer**, T. McMullin, A. Mertens, H. Paquette, M. Petix, R. Reese Næsborg, F. Roberts, S. Sharrett and J. Villella. 2021. *Parmeliopsis hyperopta*. *The IUCN Red List of Threatened Species* 2021: e.T194660868A194678144.

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2020

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- Lendemer, J.C.** 2020b. *Sticta deyana*. *The IUCN Red List of Threatened Species* 2020: e.T175710321A175710717.
- Lendemer, J.C.** 2020c. *Phaeophyscia leana*. *The IUCN Red List of Threatened Species* 2020: e.T80703017A80703024.
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- Lendemer, J.C.** 2020f. *Sticta fragilinata*. *The IUCN Red List of Threatened Species* 2020: e.T175710297A175710712.
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2019

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2018

- Lendemer, J.C.** 2018d. *Rinodina brodoana*. *The IUCN Red List of Threatened Species* 2018: e.T80703064A80703067.
- Lendemer, J.C.** and J.L. Allen. 2018a. *Acanthothecis leucoxanthoides*. *The IUCN Red List of Threatened Species* 2018: e.T80702763A80702766.
- Lendemer, J.C.** and J.L. Allen. 2018b. *Acanthothecis paucispora*. *The IUCN Red List of Threatened Species* 2018: e.T80702772A80702775.
- Lendemer, J.C.**, J.L. Allen and R.T. McMullin. 2018. *Loxospora assateaguensis*. *The IUCN Red List of Threatened Species* 2018: e.T80702946A80702949.
- Lendemer, J.C.**, J.L. Allen, R.T. McMullin, and E.A. Tripp. 2018. *Rinodina chrysomelaena*. *The IUCN Red List of Threatened Species* 2018: e.T80703073A80703076.

2015

- Allen, J.L., **J.C. Lendemer** and T. McMullin. 2015. *Cetradonia linearis*. *The IUCN Red List of Threatened Species* 2015: e.T70386009A70386019.

Recent Literature on Lichens:

In press

- Lendemer, J.C.** In press. Recent Literature on Lichens–269. *The Bryologist*.
- Lendemer, J.C.** In press. Recent Literature on Lichens–270. *The Bryologist*.

2023

- Lendemer, J.C.** 2023. Recent Literature on Lichens–268. *The Bryologist* 126(1): 154–163.

2022

- Lendemer, J.C.** 2022a. Recent Literature on Lichens–264. *The Bryologist* 125(1): 205–214.
- Lendemer, J.C.** 2022b. Recent Literature on Lichens–265. *The Bryologist* 125(2): 380–386.
- Lendemer, J.C.** 2022c. Recent Literature on Lichens–266. *The Bryologist* 125(3): 501–504.
- Lendemer, J.C.** 2022d. Recent Literature on Lichens–267. *The Bryologist* 125(4): 649–655.

2021

- Lendemer, J.C.** 2021a. Recent Literature on Lichens–260. *The Bryologist* 124(1): 139–147.
- Lendemer, J.C.** 2021b. Recent Literature on Lichens–261. *The Bryologist* 124(2): 313–322.
- Lendemer, J.C.** 2021c. Recent Literature on Lichens–262. *The Bryologist* 124(3): 461–466.
- Lendemer, J.C.** 2021d. Recent Literature on Lichens–263. *The Bryologist* 124(4): 631–637.

2020

- Lendemer, J.C.** 2020a. Recent Literature on Lichens–256. *The Bryologist* 123(1): 112–123.
- Lendemer, J.C.** 2020b. Recent Literature on Lichens–257. *The Bryologist* 123(2): 363–376.
- Lendemer, J.C.** 2020c. Recent Literature on Lichens–258. *The Bryologist* 123(3): 584–591.
- Lendemer, J.C.** 2020d. Recent Literature on Lichens–259. *The Bryologist* 123(4): 720–730.

2019

- Lendemer, J.C.** 2019a. Recent Literature on Lichens–252. *The Bryologist* 122(1): 172–181.
- Lendemer, J.C.** 2019b. Recent Literature on Lichens–253. *The Bryologist* 122(2): 363–371.
- Lendemer, J.C.** 2019c. Recent Literature on Lichens–254. *The Bryologist* 122(3): 525–536.
- Lendemer, J.C.** 2019d. Recent Literature on Lichens–255. *The Bryologist* 122(4): 625–635.

2018

- Lendemer, J.C.** 2018a. Recent Literature on Lichens–248. *The Bryologist* 121(1): 117–123.
Lendemer, J.C. 2018b. Recent Literature on Lichens–249. *The Bryologist* 121(2): 238–247.
Lendemer, J.C. 2018c. Recent Literature on Lichens–250. *The Bryologist* 121(3): 447–455.
Lendemer, J.C. 2018d. Recent Literature on Lichens–251. *The Bryologist* 121(4): 607–615.

2017

- Lendemer, J.C.** 2017a. Recent Literature on Lichens–244. *The Bryologist* 120(1): 97–109.
Lendemer, J.C. 2017b. Recent Literature on Lichens–245. *The Bryologist* 120(2): 239–256.
Lendemer, J.C. 2017c. Recent Literature on Lichens–246. *The Bryologist* 120(3): 361–369.
Lendemer, J.C. 2017d. Recent Literature on Lichens–247. *The Bryologist* 120(4): 537–548.

2016

- Lendemer, J.C.** 2016a. Recent Literature on Lichens–240. *The Bryologist* 119(1): 107–120.
Lendemer, J.C. 2016b. Recent Literature on Lichens–241. *The Bryologist* 119(2): 220–240.
Lendemer, J.C. 2016c. Recent Literature on Lichens–242. *The Bryologist* 119(3): 316–327.
Lendemer, J.C. 2016d. Recent Literature on Lichens–243. *The Bryologist* 119(4): 446–458.

Teaching Experience

- 2023** Introduction to Lichens – Edge of Appalachia, OH – 1-day
2023 The Hidden World of Lichens – New York Botanical Garden, NY – 1-day (2x)
2022 Introduction to Lichens – Highlands Biological Station, NC – 3-days– co-taught w/ J.L. Allen
2022 The Lichen Genus *Lepraria* – Humboldt Field Research Institute, ME – 1-week
2022 The Hidden World of Lichens – New York Botanical Garden, NY – 1-day (2x)
2021 Introduction to Lichens – Highlands Biological Station, NC – 1-week – co-taught w/ J.L. Allen
2020 The Hidden World of Lichens – New York Botanical Garden, NY – 1-day (2x)
2019 Urban Lichens: Lichens Revealed – New York Botanical Garden, NY – 3-days
2019 The Hidden World of Lichens –New York Botanical Garden, NY – 1-day (2x)
2018 The Lichen Biome – University of Colorado, Boulder, CO – 3-weeks – co-taught w/ E. Tripp
2018 Introduction to Lichens – Highlands Biological Station, NC – 2-weeks – co-taught w/ J.L. Allen
2018 Sterile Crustose Lichens – Humboldt Field Research Institute, ME – 1-week
2018 The Hidden World of Lichens – New York Botanical Garden, NY – 1-day (2x)
2017 The Hidden World of Lichens – New York Botanical Garden, NY – 1-day
2016 Introduction to Lichens – Highlands Biological Station, NC – 1-week – co-taught w/ J.L. Allen
2016 The Hidden World of Lichens – New York Botanical Garden, NY – 1-day (2x)
2015 Rare Lichen Workshop – Highlands Biological Station, NC – 3-days – co-taught w/ J.L. Allen
2015 Introduction to Lichens – Highlands Biological Station, NC – 1-week – co-taught w/ J.L. Allen
2015 Introduction to Crustose Lichens – Edge of Appalachia, OH – 4-days
2015 The Hidden World of Lichens – New York Botanical Garden, NY – 1-day
2013 Field Biogeography – New York Botanical Garden, NY – 10-days
2013 Sterile Crustose Lichens – Southern Oregon University, OR – 3-days
2013 Sterile Crustose Lichens – Humboldt Field Research Institute, ME – 1-week
2010 Sterile Crustose Lichens – Humboldt Field Research Institute, ME – 1-week
2009 Teaching Assistant - Plant Taxonomy – The City University of New York, NY – full semester

Media Coverage, Media Authorship and Arts Collaborations

2022

WNYC: Brian Lehrer Show – Trees as Ecosystems – Guest appearance to explain what lichens are and why they are important – 10 August 2022

2021

Liking lichens: A Glimpse into the Fascinating World of Lichens – Episode of the podcast Backyard Ecology – 9 December 2021 – [URL: <https://www.backyardecology.net/liking-lichens-a-glimpse-into-the-fascinating-world-of-lichens/>]

City of Science: Urban Ecology – Graduate Center, City University of New York moderated forum about urban environments and biodiversity focused on New York City. – 17 November 2021 [URL: <https://youtu.be/jKUgYo6VTd0>]

Your Garden Isn't Winding Down: It's Still Lichen Season – New York Times column by Margaret Roach featuring lichens and the recently published book *Urban Lichens*. Online 3 November 2021, printed in subsequent Sunday edition. [URL: <https://www.nytimes.com/2021/11/03/realestate/gardening-lichen-fall.html>]

Metaspectacle: Lichens – Two part interview for podcast with Nicholas John developed for MFA program at Plymouth College of Art, England. 14 August 2021. [URL: <https://anchor.fm/metaspectacle/episodes/Part-1-Lichen-e15njan>]

Artist Collaboration “Ever Here” – Mixed media art installation by artist Lynne Yamamoto as part of Art in Odd Places (AiOP) event in June 2021 along 14th Street in Manhattan, New York City. June 2021. [URL: <https://lynneyamamoto.com/art-in-odd-places>]

NYBG Hand Lens: Lichen Dots – Short post about natural forms for Kusama: Cosmic Nature. 20 September 2021. [URL: <http://sweetgum.nybg.org/science/the-hand-lens/explore/narratives-details/?irn=7553>]

‘Like Little Underdogs’: Lichens Return to New York City, and a New Book Reveals Their Splendor – July 2021 – News story from the City University of New York Graduate Center about *Urban Lichens* published by Yale Press. [URL: <https://gc.cuny.edu/Faculty/Books/Detail?id=59997>]

2020

Alumni Aloud: Biology at the New York Botanical Garden (feat. James Lendemer) – February 2020 – Podcast from the City University of New York Graduate Center in which alumni discuss their careers, training philosophy and offer advice to students. [URL: <https://careerplan.commons.gc.cuny.edu/blog/alumni-aloud-episode-47>]

Understanding Interactions: Taking Botany Out of Isolation – March 2020 – Interactive web media piece discussing the need to consider abiotic/biotic interactions in science, and introducing the new NYBG Biotic Interactions interface. [URL: <http://bluegum.nybg.org/thl/narrative.php?irn=7459>]

Biotic Interactions Virtual Herbarium Interface – March 2020 – New dynamic web interface developed in collaboration with NYBG Virtual Herbarium staff to present and query data generated by Dimensions of Biodiversity project in the southern Appalachian Mountains. [URL: <http://sweetgum.nybg.org/science/biotic-interactions/>]

Introducing Biotic Interactions VH Interface – March 2020 – News post announcing newly developed web interface to explore data from Dimensions of Biodiversity project in the southern Appalachian Mountains. [URL: <http://sweetgum.nybg.org/science/introducing-biotic-interactions/>]

A Liking for Lichens – Spring 2020 – *National Parks Magazine* 94(2): 24-25. – Article by Nicolas Brulliard covering work in Great Smoky Mountains National Park. [URL: <https://www.npca.org/articles/2479-a-liking-for-lichens>]

2019

The Rare, Native Species Haunting The Appalachian Mountains – 31 October 2019 – Science Friday – Popular article about threatened endemic species pub crawl written by Lauren Young. [URL: <https://www.sciencefriday.com/articles/endemic-species-halloween-southern-appalachians/>]

Likin' our lichens: Sustainably harvesting *Usnea* in WNC – 19 June 2019 – MountainXpress – Popular article published in alt-weekly newspaper for Asheville, NC region authored by Lendemer, Jessica Allen and Laura Boggess [URL pp. 8-9: https://issuu.com/mountainx/docs/06.19.19_mx_opt]

NYBG Hand Lens: Muhlenberg's Smile – Short post about rare and endangered lichen. 13 May 2019. [URL: <http://sweetgum.nybg.org/science/the-hand-lens/explore/narratives-details/?irn=7234>]

Hiding in Plain Sight – 20 March 2019 – Full article on lichens and lichen conservation via transplantation in coastal North Carolina. By Julie Leibach. *Coastwatch* Spring 2019. [URL: <https://ncseagrant.ncsu.edu/coastwatch/previous-issues/2019-2/spring-2019/hiding-in-plain-sight/>]

2018

Great Smoky Mountains National Park's Biodiversity Inventory Reaches 1,000 Species Mark – 18 October 2018 – Extensive regional press coverage of National Park Service press release regarding the formal description of five new lichen species in honor of NPS educators and scientists. [example URLs: <https://www.nationalparkstraveler.org/2018/10/great-smoky-mountains-national-parks-biodiversity-inventory-reaches-1000-species-mark>; <https://www.citizen-times.com/story/news/local/2018/10/18/new-species-discovered-2018-great-smoky-mountains-national-park-lichens-biodiversity-ecosystem/1669321002/>]

On the Hunt for Unloved, Unstudied, Yet Super Important Lichen – Full article on lichen conservation featuring *Cladonia submitis* and New York City. By Harrison Tasoff. – *Smithsonian.com* – 20 August 2018 [URL: <https://www.smithsonianmag.com/science-nature/hunt-unloved-unstudied-important-lichen-180970070/>]
Jeopardy – Description of new species honoring Dolly Parton featured as question on Jeopardy, retweeted by Dolly Parton, >1,600 likes on twitter – 7 Jun 2018 [URL: <https://twitter.com/Jeopardy/status/850500076296257536>]
New Jersey Lichens Give Up The Ghost – Blog discussing death of lichen transplants at NYBG. – 2018 [URL: https://www.nybg.org/blogs/science-talk/2018/01/new-jersey-lichens-give-ghost/?subscribe=error#blog_subscription-2]

2017

Manna from Heaven – Invited guest for the podcast *Tell Me Something I Didn't Know* – 2017 [URL: <http://tmsidk.com/2017/11/farming-without-sun-or-soil-and-eating-manna-from-heaven/>]
Lichens Could Be Physically Rescued from Sea Level Rise – Article by Roger Drouin about lichen transplantation. – *Scientific American* 316(4). – 2017. [URL: <https://www.scientificamerican.com/article/lichens-could-be-physically-rescued-from-sea-level-rise/>]
The Ecoblitz: A Lichenologist's View – Blog about lichen diversity in southern Indiana written for Indiana Forest Alliance – 2017. [URL: <https://indianaforestalliance.org/ecoblitz-lichenologist-view/>]
Transplants: Saving the Denizens of a Threatened Coastal Ecosystem – Blog discussing potential of lichen transplant to save species from sea-level rise. – 2017. [URL: <http://blogs.nybg.org/science-talk/2017/04/transplants-saving-the-denizens-of-a-threatened-coastal-ecosystem/>]

2016

Lichens Hold on Along America's Vanishing Coast – Blog discussing results of Mid-Atlantic Coastal Plain work. – 2016. [URL: <http://blogs.nybg.org/science-talk/2016/09/lichens-hold-on-along-americas-vanishing-coast/>]
Getting Lichens on the List – The IUCN Red List, That Is – Blog discussing results of IUCN Red List workshop at NYBG. – 2016. [URL: <http://blogs.nybg.org/science-talk/2016/02/getting-lichens-on-the-list-the-iucn-red-list-that-is/>]

2015

Lichens in the Slow Lane – Educational piece about lichens written by Constance Casey highlighting the Dolly Parton Lichen – *Landscape Architecture Magazine* 105(11): 72-76. – 2015.
The Adaptors: Dollypartoniana and Other Lichens – Podcast about lichen research related to climate change. – 2015. [URL: <https://soundcloud.com/the-adaptors/dollypartoniana-and-other-lichens>]
What lichens are telling us, with Dr. James Lendemer – Episode of “Away to Garden” about lichens and their importance, broadcast in NPR affiliates and available online. – 2015. [URL: <http://awaytogarden.com/what-lichens-are-telling-us-with-dr-james-lendemer/>]
Booked Up: A Conversation About a New Guide to an Overlooked Group of Organisms – Video interview with Dr. Troy McMullin discussing his new field guide to common lichens in the northeastern North America. – 2015. [URL: <http://blogs.nybg.org/science-talk/2015/06/booked-up-a-conversation-about-a-new-guide-to-an-overlooked-group-of-organisms/>]
Mission Possible: NYBG Scientists Boost Conservation of Fungi – Blog about fungal conservation. – 2015. [URL: <http://blogs.nybg.org/science-talk/2015/08/mission-possible-nybg-scientists-boost-conservation-of-fungi/>]
New Species of Fungus Discovered at Bull Neck Swamp Forest – Story about new species discovery from North Carolina State University, College of Natural Resources. – 2015. [URL: <http://cnr.ncsu.edu/fer/2015/03/02/new-species-of-fungus-discovered-at-bull-neck-swamp-forest/>]
Lichen Survey Yields New Discoveries – Report on lichen work in NC National Estuarine Research Reserves published in the NC DNER newsletter. – 2015. [URL: http://portal.ncdenr.org/c/document_library/get_file?uuid=4824a29e-6e91-47d0-943e-1504ad2c955e&groupId=61572]
Transplants: New Jersey Lichens Find New Home at NYBG – Blog discussing the loss of lichens in New York City and an attempt to reintroduce them to region. – 2015. [URL: <http://blogs.nybg.org/science-talk/2015/04/transplants-new-jersey-lichens-find-new-home-at-nybg/>]
Honoring a Music Legend of the Southern Appalachians – Blog discussing new species named in honor of Dolly Parton – 2015. [URL: <http://blogs.nybg.org/science-talk/2015/05/honoring-a-musical-legend-of-the-southern-appalachians/>]

NYBG Scientists Name New Appalachian Lichen Species For Country Music Legend Dolly Parton – Press releases and media coverage of new species. – 2015.

[URLS: http://www.nybg.org/press_releases/DollyPartonLichenRelease.pdf; <http://allenpress.com/node/1197>; <http://news.sciencemag.org/sifter/2015/05/new-appalachian-lichen-named-after-dolly-parton>; <http://nytlive.nytimes.com/womenintheworld/2015/05/04/scientists-honor-dolly-parton-by-naming-lichen-species-after-her/>]

2011-2015

Our Native Lichens: a hidden world in peril – Lecture filmed as part of the Science on the Sounds series of the UNC Coastal Studies Institute – 2014.

[URL: <https://www.youtube.com/watch?v=7sdIHJaMI7E&feature=youtu.be>]

Hunting the Wild Lichen – Educational video produced by Anna Rothschild with *Science Friday* – 2010

[URL: <http://ec2-23-21-117-9.compute-1.amazonaws.com/video/11/12/2010/hunting-the-wild-lichen.html>]

Liking Lichen Diversity – “Dispatch from the field” by staff from Great Smoky Mountains National Park – 2012.

[URL: http://www.nps.gov/grsm/naturescience/dispatch_lichen.htm]

An Unlichenly Pair – “Notebook” piece by Hanna Waters published in *The Scientist* – 2011.

[URL: <https://www.the-scientist.com/notebook/an-unlichenly-pair-42151>]

Professional Affiliations (non-institutional)

American Bryological and Lichenological Society (ABLS); American Society of Plant Taxonomists (ASPT); Botanical Society of America (BSA; **life member**); California Lichen Society (CALs); International Association of Plant Taxonomists (IAPT; **life member**); Mycological Society of America (MSA); New York Flora Association (NYFA; **life member**); Philadelphia Botanical Club (PBC; **life member**); Society for the Preservation of Natural History Collections (SPNHC); Southern Appalachian Botanical Society (SABS; **life member**); Torrey Botanical Society (TBS; **life member**).

Professional Presentations

[* indicates presenter, bold face indicates lead author, invited presentations are as noted, posters not included]

2023

* **Invited Presentation** – NYC20 (New York, NY) – Urban Lichens: NYC.

* **Invited workshop** – O&R Environmental Workshop Series, Dominican University of New York (Orangeburg, NY) – Lichens: Form and Function in Our Local Ecosystems.

2022

* **Invited lecture** – Turnbull Lecture Series, Lehman College, CUNY (Bronx, NY) – Fungi and the Anthropogenic Reorganization of Life,

* **Symposium presentation** - Botany 2022 Plants at the Extreme (Anchorage, AK) – Integrating cryptogams into the biodiversity universe: An evidence-based standards and practices framework [co-presented with L. Briscoe]

* Conference presentation - Botany 2022 Plants at the Extreme (Anchorage, AK) – A call to reconceptualize lichen symbioses [co-presented with J. Allen]

* **Invited presentation** – Weird Little Things, NYBG Adult Education (Bronx, NY) – Lichens: Nature’s Paradox

* **Invited presentation** – Biomaterials and Biofabrication Workshop, Penn State University (State College, PA) – Lichens: Keystone fungal symbionts and the paradox of Anthropocene resiliency.

* **Invited presentation** – Scotch Plains Public Library (Scotch Plains, NJ) – Metropolitan Lichens: An Introduction to the NYC Region. [co-presented with J. Allen].

* **Invited presentation** – Philadelphia Botanical Club (Philadelphia, PA) – Connecting Lichens and People in the Urban Experience. [co-presented with J. Allen].

2021

* **Invited presentation** – Brentwood Public Library (Brentwood, NY) – Metropolitan Lichens: An Introduction to the NYC Region.

* **Invited presentation** – Botanical Artists and Illustrators (New York, NY) – Metropolitan Lichens: An Introduction to the NYC Region.

- ***Invited presentation** – Vancouver Mycological Society (Vancouver, BC) – Lichens People and the Urban Experience. [co-presented with J. Allen].
- ***Invited presentation** – Torrey Botanical Society (Bronx, NY) – Lichens People and the Urban Experience. [co-presented with J. Allen].
- ***Invited presentation** – Upper West Side Neighborhood Naturalists (New York, NY) – NYC Lichens an Urban Experience.
- ***Invited presentation** – Northwest Lichenologists Virtual Symposium (Olympia, WA) – Integrating Exploration, New and Old, To Strategically Advance Lichen Knowledge and Conservation.

2020

- ***Invited seminar** – University of Tennessee (Knoxville, TN) – Appalachian Lichens: What Drives Diversity and Distributions for Threatened Fungal Symbioses in a Global Biodiversity Hotspot.
- ***Presentation** – NYBG Britton Gallery Talk (Bronx, NY) – Lost and found in New York City: Three centuries of lichen extinction, adaptation, and change.

2019

- ***Invited seminar** – Department of Biology, Eastern Washington University (Cheney, WA) – The Lichencosm: Small fungi, big roles, important insights on the symbiosis in nature and the laboratory
- ***Invited seminar** – Canadian Museum of Nature Seminar Series (Gatineau, Quebec) – Next Generation Natural History: New perspectives on the lichen symbioses from the field, the genome and beyond.
- ***Invited presentation** – Discover Life in America (Sugarlands, TN) – Lichens of the Smokies Revealed.
- ***Invited presentation** – New Jersey Mycological Association (Morristown, NJ) – Lichen Flora of New Jersey.
- ***Invited presentation** – Torrey Botanical Society (Bronx, NY) – The Delmarva Lichen Manual: A New Botanical Resource for the Atlantic Coast.
- ***Invited presentation** – Philadelphia Botanical Club (Philadelphia, PA) – The Delmarva Lichen Manual: A New Botanical Resource for the Atlantic Coast.
- ***Presentation** – Botany 2019 (Tucson, AZ) – Next Generation Lichenology: A Strategy to Advance Biodiversity Science Leveraging the Riches of the Past.
- ***Presentation** – Botany 2019 (Tucson, AZ) – Floristics as a foundation for training students broadly in plant and fungal diversity. [co-presented with N. Snow].
- ***Seminar** – The New York Botanical Garden (Bronx, NY) – The Lichencosm: Small fungi, big roles, important insights into obligate symbiosis

2018

- ***Symposium presentation** – IFA Ecoblitz Symposium: Indiana Academy of Science Annual Meeting (Indianapolis, IN) – New Data on Indiana Lichens highlight an Understudied and Imperiled Component of Native Biodiversity.
- ***Symposium presentation** – Great Smoky Mountains Sciences Colloquium (Gatlinburg, TN) – Highlights from 10 Years of Lichenological Research in Great Smoky Mountains National Park: Celebrating the NPS Centennial [co-presented with E. Tripp].
- ***Symposium presentation** – Managing Landscapes Sustainably: Cornell Cooperative Extension of Suffolk County (Stony Brook, NY) – Lichens: Signals of Tree Health and Environmental Quality.
- ***Invited presentation** – New England Botanical Club Distinguished Lecture (Cambridge, MA) – New England Lichens: Leveraging Past Riches to Understanding the Present and Future.
- ***Invited seminar** – Department of Biological Sciences Seminar Series at Fordham University (Bronx, NY) – Lichens: Insights into ecologically important symbioses from the field, the genome and beyond.
- ***Invited seminar** – Biological Organization of Graduate Students at Eastern Kentucky University (Richmond, KY) – Appalachian Lichens: Insights on ecologically important symbioses from the field to the genome and beyond.

2017

- ***Symposium presentation** – Science Symposium Honoring Doug Ladd (St. Louis, MO): Cryptogams: The Next Frontier for Biodiversity Discovery and Conservation.
- ***Symposium presentation** – Entwined: Plants, Exploration, and Our Future (Bronx, NY): Cryptogams: The Next Frontier for Biodiversity Discovery and Conservation.
- ***Symposium presentation** – Ohio Botanical Symposium (Columbus, OH): Keynote Address: The Lichens of Ohio: Regional Diversity in a Global Context.

- ***Invited Presentation** – Lawrence Brook Watershed Partnership (Milltown, NJ): An Introduction to Lichens: Hidden Treasures in our Natural Landscape
- ***Invited Presentation** – Torrey Botanical Society Lecture Series (Bronx, NY): Rags to Riches: Tales of Discovery and Conservation of America’s Neglected Lichen Biodiversity

2016

- ***Invited presentation** – Furnace Fest (Copake, NY): Introduction to Lichens.
- ***Invited presentation** – Morris Arboretum of the University of Pennsylvania (Philadelphia, PA): The Importance of Lichens and the Ecosystems they Support.
- ***Invited presentation** – North American Mycological Association Foray (Front Royal, VA): Lichens of Shenandoah and the Great Smoky Mountains.
- ***Invited presentation** – Friends of Princeton Nursey Lands (Princeton, NJ): Looking at Lichens: A new perspective on important ecological indicators.
- ***Invited presentation** – Bedford Audubon Society (Katonah, NY): Lichens—From Neglected Natives to Ecosystem Indicators.

2015

- ***Symposium presentation** – Northeastern Herbarium Curators Meeting (Bronx, NY) – Rages to Riches: The Value of Cryptogam Big Data in the Biodiversity Information Synthesis.
- ***Symposium presentation** – Contributions to Plant Systematics and Ecology (Philadelphia, PA): Ernie Schuyler: a Legacy Beyond the Crustose Lichens.
- ***Invited lecture** – Long Island Natural History Conference (Brookhaven, NY) – Long Island Lichens: An Exploration of a Hidden World in Peril.
- ***Invited lecture** – Bard College Biology Seminar Series (Annandale-On-Hudson, NY) – Lichens: An Exploration of a Hidden World in Peril.
- ***Invited lecture** – Bowman’s Hill Wildflower Preserve Winter Lecture Series (New Hope, PA) – Our Native Lichens: a hidden world in peril.
- ***Invited presentation** – The Maryland Native Plant Society Annual Fall Conference (Salisbury, MD): Lichens of Delmarva and the Mid-Atlantic Coastal Plain: astounding diversity and uncertain future.
- ***Seminar** – Royal Botanical Garden Edinburgh (Edinburgh, Scotland) – Rages to Riches: The Value of Cryptogam Big Data in the Biodiversity Information Synthesis.
- ***Seminar** – The New York Botanical Garden (Bronx, NY): Mountains to Sea: Conservation of American Lichens and the Ecosystems They Support.
- ***Presentation** – Botany 2015 (Edmonton, Canada) – Not So Different After All: Results from the First IUCN Red List Assessment for North American Lichens Dispel the Myth that Fungi Cannot be Conserved.
- ***Presentation** – Botany 2015 (Edmonton, Canada) – Lichens in the Mid-Atlantic Coastal Plain: patterns and trends from four years of intensive biodiversity inventory.
- ***Presentation** – Briefings from the Field (New York, NY) - Lichens of the Mid-Atlantic Coast: Discovery of a Biodiversity Hotspot and Conservation of a National Treasure

2014

- ***Symposium organizer and moderator** – Botany 2014 (Boise, ID): Conservation of North American Lichens and the Ecosystems They Support.
- ***Symposium presentation** – Botany 2014 (Boise, ID): Lichens, we hardly know thee: the state of lichens and lichen conservation in North America.
- ***Invited lecture** – Denver Mycological Society (Denver, CO): Lichen Biodiversity: a hidden world in peril.
- ***Invited lecture** – CUNY Baruch Honors Undergraduate Biology Course (New York, NY): Who cares about evolution?
- ***Invited lecture** – Pennsylvania Native Plant Society Annual Meeting (Bowman’s Hill, PA): Pennsylvania Lichens: an exploration of a hidden word in peril.
- ***Invited lecture** – NorthEastern Microbiologists: Physiology, Ecology and Taxonomy (Blue Mountain Lake, NY): Lichens: From Basic Biology to Cultural Touchstone for Earth’s “Cryptic” Biodiversity.
- ***Invited presentation** – Long Island Botanical Club (Muttontown, NY): Long Island Lichens: from distant past to uncertain future.
- ***Presentation** – Botany 2014 (Boise, ID): Let’s talk about sex: How human preconceptions have shaped mycobiont species concepts based on reproductive biology and why new data illustrate the need for a different approach.

- ***Invited seminar** – Delaware State University (Dover, DR): Lichen Biodiversity: an imperiled natural resource with critical roles in the terrestrial biome.
- ***Invited seminar** – Colorado Museum of Natural History (Boulder, CO): Lichen Diversity and its Consequences to the Terrestrial Biome
- ***Invited seminar** – Rutgers University, Dept. of Ecology and Evolution (New Brunswick, NJ): Where have all the lichens gone? New Jersey as a case study of the unseen effects anthropogenic change has on biodiversity and ecosystem function.
- ***Invited lecture** – UNC Coastal Studies Institute (Wanchese, NC): Our Native Lichens: a hidden world in peril.

2013

- ***Invited lecture** – The Nature Conservancy, Maryland chapter (Bethesda, MD): Lichen biodiversity of the Delmarva Peninsula: discovery, documentation and conservation of a vital natural resource.
- ***Invited presentation** – Botany 2013 (New Orleans, LA): Where have all the lichens gone? Lichen diversity decline and its consequences to the terrestrial biome. [E. Tripp co-author]
- ***Invited presentation** – The Maryland Native Plant Society Annual Fall Conference (Frostburg, MD): Lichens of the Alleghany Plateau and Western Maryland.
- ***Invited seminar** – The Academy of Natural Sciences of Philadelphia (Philadelphia, PA): Lichen biodiversity of the Mid-Atlantic Coastal Plain: discovery and conservation of a critically threatened biota.
- ***Presentation** – Botany 2013 (New Orleans, LA): Lichen Biodiversity in the Mid-Atlantic Coastal Plain: patterns and trends amid a changing climate.
- Presentation – Botany 2013 (New Orleans, LA): The Enticing Life of *Arthonia*. [E. Tripp presenter and lead author, J. Lendemer co-author].

2012

- ***Invited presentation** – Great Smoky Mountains Conservation Association (Knoxville, TN): Great Smoky Mountains Lichens: How known is well-known [E. Tripp co-presenter].
- ***Invited lecture** – Great Smoky Mountains National Park Headquarters (Knoxville, TN): Great Smoky Mountains Lichens: How known is well-known [E. Tripp co-presenter].
- ***Invited lecture** – Pennsylvania Botany Symposium (Pittsburgh, PA): The Lichens of Pennsylvania: understanding an imperiled part of our biological heritage.
- ***Invited seminar** – Humboldt Field Research Institute (Steuben, ME): Great Smoky Mountains Lichens: How known is well-known.
- ***Presentation** – Mycological Society of America Annual Meeting (New Haven, CT): Sterile asexually reproducing crustose lichens: improving classification, conservation, and communication in the 21st century [B.P. Hodkinson co-author].
- ***Seminar** – The New York Botanical Garden (Bronx, NY): Lichen biodiversity in the threatened Middle Atlantic Coastal Plain of North America: Improving classification, conservation, and communication [B.P. Hodkinson co-author and presenter].

2011

- ***Invited keynote lecture** – American Bryological and Lichenological Society Annual Meeting (Roan Mountain, TN): Perspectives on taxonomy and its real-world consequences
- ***Invited seminar** – Canadian Museum of Nature (Ottawa, ON): News From the Ground (or two centuries of change in eastern North America from the lichen's perspective)
- ***Invited seminar** – Fairleigh Dickinson University (Hackensack, NJ): The Importance of Lichens
- ***Invited lecture** – Philadelphia Botanical Club (Philadelphia, PA): What do 200 years of study have to tell us about Pennsylvania lichens?
- ***Seminar** – The New York Botanical Garden (Bronx, NY): Great Smoky Mountains Lichens: How known is well known
- ***Seminar** – The New York Botanical Garden (Bronx, NY): Lichen Taxonomy for the 21st Century: a revision of *Lepraria s.l.* leads to new perspectives in species delimitation and the evolution of asexual reproduction in lichen forming fungi

2010

- ***Presentation** – Botany 2010 (Providence, RI): Connecting the dots (Progress and problems in assessing lichen biodiversity and biogeography in the Coastal Plain of southeastern North America) [B.P. Hodkinson co-author]

2009

***Invited seminar** – Western Pennsylvania Conservancy: The Lichens of Pennsylvania: past, present, and future [presented at Pittsburgh office and Harrisburg office separately].

2007

***Seminar** – Philadelphia Botanical Club (Philadelphia, PA): Lichens of the Limestone Barrens of the Great Northern Peninsula of Newfoundland

2004

***Seminar** – Philadelphia Botanical Club (Philadelphia, PA): The Lichens of New Jersey

Professional Meetings, Symposia and Workshops Organized and Attended

[* indicates primary organizer, ** indicates co-organizer]

- 2023** – **31st Tuckerman Lichen Workshop – Gulf Shores, AL (w/ Gulf State Park)
2022 – Botany 2022 Plants at the Extreme – Anchorage, AK
2022 – Our Common Nature: A Cultural Journey With Yo-Yo Ma – Purchase Knob, NC
2022 – Penn State University Biomaterials and Biofabrication Workshop – State College, PA
2022 – *30th Tuckerman Lichen Workshop – Elkins, WV (w/ West Virginia Natural Heritage Program)
2022 – **29th Tuckerman Lichen Workshop – Hattiesburg, MS (w/ Southern Mississippi University)
2021 – Northwest Lichenologists Virtual Symposium – Olympia, WA
2019 – BCoN: U.S. Biodiversity Collections to Address National Challenges – Oak Spring Garden, VA
2019 – Botany 2019 Sky Islands & Desert Seas – Tucson, AZ
2019 – **28th Tuckerman Lichen Workshop – Sleeping Giant, ON (w/ Canadian Museum of Nature)
2018 – Indiana Academy of Science Annual Meeting – Indianapolis, IN
2018 – Managing Landscapes Sustainably: Cornell Cooperative Extension of Suffolk County – Stony Brook, NY
2018 – **27th Tuckerman Lichen Workshop – Falling Waters, PA (w/ Western Pennsylvania Conservancy)
2017 – Botany 2017 – Fort Worth, TX
2017 – **26th Tuckerman Lichen Workshop – Columbiana, AL
2017 – Ohio Botanical Symposium – Columbus, OH
2016 – *25th Tuckerman Lichen Workshop – Fontana, NC
2015 – Botany 2015 Science for Plants and People – Edmonton, AB
2015 – **24th Tuckerman Lichen Workshop – Pellston, MI
2015 – Long Island Natural History Conference – Brookhaven, NY
2013 – Maryland Native Plant Society Annual Conference – Salisbury, MD
2014 – Botany 2014 New Frontiers in Botany – Boise, ID
 **Symposium organizer – Conservation of North American Lichens and the Ecosystems They Support
2014 – **23rd Tuckerman Lichen Workshop – Brunswick, GA
2014 – NorthEastern Microbiologists: Physiology, Ecology and Taxonomy – Blue Mountain Lake, NY
2013 – *22nd Tuckerman Lichen Workshop – Wanchese, NC
2013 – Botany 2013 Celebrating Diversity! – New Orleans, LA
2013 – Maryland Native Plant Society Annual Fall Conference – Frostburg, MD
2012 – Mycological Society of America, Annual Meeting – New Haven, CT
2012 – Pennsylvania Botanical Symposium – Pittsburgh, PA
2012 – 21st Tuckerman Lichen Workshop – Gaspé Peninsula, Quebec
2011 – American Bryological & Lichenological Society Annual Meeting – Roan Mountain, TN
2011 – 20th Tuckerman Lichen Workshop – St. Andrews, NB
2010 – Botany 2010 – Providence, RI
2010 – 19th Tuckerman Lichen Workshop – Augusta, GA
2009 – 18th Tuckerman Lichen Workshop – Naples, FL
2008 – 17th Tuckerman Lichen Workshop – Tobermory, ON
2007 – 16th Tuckerman Lichen Workshop – Avalon Peninsula, NL
2006 – 15th Tuckerman Lichen Workshop – Shawnee State Park OH
2005 – 14th Tuckerman Lichen Workshop – Eureka Springs, AR
2002 – 12th Tuckerman Lichen Workshop – Atlantic Beach, NC

Reviewer For

American Journal of Botany, Australian Journal of Botany, Australian Systematic Botany, Bartonia, Biological Conservation, Botany, Bryologist, Ecography, Environmental Monitoring and Assessment, Evansia, Forest Ecology and Management, Folia Cryptogamica Estonica, Herzogia, Hoehnea, Journal of Biogeography, Lichenologist, Mycology, Mycotaxon, New Phytologist, Nordic Journal of Botany, Northeastern Naturalist, North American Fungi, Nova Hedwigia, Persoonia, Phytotaxa, Plant Sciences Bulletin, Plant Ecology and Evolution, Polish Journal of Botany, Proceedings of the North Carolina Academy of Sciences, Revista Hoehnea, Rhodora, Symbiosis, Taiwania, Taxon, Telopea, Western North American Naturalist.

Graduate Students (in chronological order, primary mentor/advisor):

Laura Boggess, Department of Biology, City University of New York, New York, U.S.A. – PhD student, entered program 2019, 1st-year exam passed 2020, proposal defense passed 2022, expected completion 2024. – Research focus: lichen disturbance ecology/community dynamics, especially rock outcrops and cliffs.

Jordan Hoffman, Department of Biology, City University of New York, New York, U.S.A. – PhD student, 1st-year exam passed 2017, proposal defense passed 2019, **defense successful 2021 and graduated 2022**. – Research focus: lichen conservation biology, population genomics.

Jessica Allen, Department of Biology, City University of New York, New York, U.S.A. – PhD student, 1st-year exam passed 2013, proposal defense passed 2015, **defense successful 2016 and graduated 2017**. – Research focus: lichen conservation biology, population genomics, modelling.

Graduate Committees Served On (in chronological order, includes co-mentored students)

Bubba Pfeffer, Department of Biology, Eastern Washington University, Cheney, Washington, U.S.A. – External MS committee member, proposal defense passed 2022. – Research focus: genomics and population genetics of *Lepraria*.

Makani Fisher, Department of Entomology, Purdue University, West Lafayette, Indiana, U.S.A. – External PhD committee member, proposal defense passed 2019. – Research focus: metabolite sequestration and evolution of lichen-feeding tiger moths.

Carly Anderson, Department of Evolutionary Biology, University of Colorado Boulder, Colorado, U.S.A. – External PhD committee member, comps passed 2017. – Research focus: evolution, speciation and systematics of *Cladonia*.

Eli Ward, School of Forestry and Environmental Studies, Yale University, New Haven, Connecticut, U.S.A. – NYBG member of committee, proposal defense passed 2020, defense successful and **graduated 2023**. – Research focus: impacts of invasive species on soil elements and chemistry.

Harikrishnan Venugopalan Nair Radhamoni, School of Forestry and Environmental Studies, Yale University, New Haven, Connecticut, U.S.A. – NYBG member of committee, proposal defense passed 2018, defense successful and **graduated 2023**. – Research focus: herbaceous plant community assembly and trait dynamics in southern India.

Morgan Ingraham, Department of Environmental and Forest Biology, State University of New York, Syracuse, New York, U.S.A. – External MS committee member, proposal defense passed 2020, defense successful and **graduated 2022**. – Research focus: relationship between epiphytes and beech bark disease in central New York.

Iran Frolov, Faculty of Sciences, University of South Bohemia and Institute of Botany of the Czech Academy of Sciences, Budějovice, Czech Republic. – External PhD committee member, defense successful and **graduated 2021**. – Research focus: Lichen systematics/taxonomy of *Caloplaca* s.l. in Russia.

Kyle Keepers, Department of Evolutionary Biology, University of Colorado Boulder, Colorado, U.S.A. – External PhD committee member, comps passed 2017, defense successful and **graduated 2021**. – Research focus: environmental sequencing/molecular ecology, genomics and coevolution in lichens.

Naveed Davoodian, Department of Biology, City University of New York, New York, U.S.A. – External member for proposal defense, 2014; CUNY/NYBG faculty for PhD defense; defense successful and **graduated 2018**. – Research focus: Boletaceae biogeography and taxonomy.

Michalová Markéta, Czech University of Life Sciences, Prague, Czech Republic. – Master's thesis, defense successful and **graduated 2012**. – Research focus: chemical profiling of lichen species from southern California, U.S.A.

Eponymy

Lendemiella S.Y. Kondr. (a segregate of the crustose lichen genus *Caloplaca*)

Lepraria lendemeri Bungartz, Elix, Hillmann & Kalb (a sterile crustose lichen endemic to the Galapagos Islands)

Lecanora lendemeri E. Tripp & C.A. Morse (a crustose lichen endemic narrowly endemic to Colorado, U.S.A.)

Stigidium lendemeri Kocourk. & K. Knudsen (a fungus parasitic on the crustose lichen genus *Aspicilia* in North America)