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Research Focus:

Systematics, phylogeny, ecology, biogeography and reproductive biology of lichens and allied fungi, with particular emphases on temperate and subtropical regions of the globe and taxa that have evolved to reproduce asexually via the dispersal of lichenized diaspores. Morphological, chemical, molecular, and ecological data generated from large-scale biodiversity inventories are used to document and describe biodiversity, develop standardized morphological descriptive schemes to facilitate communication, elucidate biogeographic patterns, and inform conservation/management strategies for a highly speciose but critically understudied group of organisms pivotal to maintaining functional terrestrial ecosystems.

Outreach Focus:

Dissemination of the narrative that 1) lichens serve as a microcosm for the human-mediated changes to biodiversity and ecosystems that have occurred in the past and are occurring in the present and 2) understanding this microcosm is pivotal for long-term conservation and management of the planet. Educational outreach is conducted through presentations at national and local meetings for scientists and the public, frequent one-on-one meetings in the field, leading of field trips for students and amateurs and organization of intensive workshops and courses for individuals of all skill levels and walks of life. Legislative outreach is conducted through participation in formal government panels or committees, consultation by government agencies (federal, state, and local), and collaboration with conservation groups and natural heritage programs.

Professional Preparation:

Ph.D.: Biology

The Graduate Center, City University of New York, New York, NY 2007-2012

Dissertation: Lichen Taxonomy for the 21st Century: A revision of the lichen genus *Lepraria* s.l. in North America north of Mexico.

M.Phil.: Biology

The Graduate Center, City University of New York, New York, NY 2010

B.A.: Biology

The University of Pennsylvania, Philadelphia, PA. 2002-2006

Appointments:

[Arranged chronologically by most recent start date.]

1. Associate Curator, The New York Botanical Garden, Bronx, NY 2020-present
2. Assistant Curator, The New York Botanical Garden, Bronx, NY 2015-2020
3. Assistant Professor, Department of Biology, Graduate Center, City University of New York, NY. 2015-present.
4. Postdoctoral Researcher, The New York Botanical Garden, Bronx, NY, 2012-2015.
5. Doctoral Research Fellow, The New York Botanical Garden, Bronx, NY, 2007-2012.
6. Science Scholar, City University of New York, New York, NY, 2007-2009.
7. Research Associate, The Academy of Natural Sciences of Philadelphia, Philadelphia, PA, 2003-present.
8. Research Intern, The Field Museum of Natural History, Chicago, IL, 2006 (3 months).
9. McHenry Fellow, The Academy of Natural Sciences of Philadelphia, Philadelphia, PA, 2006.
10. Curatorial Associate, Arizona State University, Tempe, AZ, 2004 (functioned as collection manager of the ASU Lichen Herbarium).

Field Experience:

Geographic scope: Extensive field experience throughout North America with particular emphasis on eastern North America (Appalachian Mountains, Atlantic and Gulf Coastal Plains, Ozark Highlands, and Canadian Maritimes) and California. Fieldwork has involved organizing, planning, obtaining permits and carrying out multiple large scale collaborative biological inventories, including those of the Mid-Atlantic Coastal Plain, southern

Appalachian Mountains, and Commonwealth of Pennsylvania. Additional field experience in subtropical, temperate and subarctic latitudes of the New World (Chile) and Old World (Tasmania).

Biological Collections: >70,000 cryptogam collection numbers (lichen-forming and non-lichen forming fungi, as well as bryophytes and algae; >90% identified, curated, and databased) and >600 vascular plant collection numbers. Primary set deposited in The New York Botanical Garden, with numerous duplicates housed in herbaria worldwide (strong focus on providing reference material to both major research institutions and small herbaria in developing countries). These collections form a major resource for workers conducting molecular phylogenetic studies of lichen-forming fungi, as well as workers studying the lichen biota of the temperate or sub-tropical regions of the New World.

Museum and Laboratory Experience:

Museum: **1)** More than fifteen years of experience in all aspects of preparing, curating, managing, and maintaining botanical collections (vascular plants, all groups of cryptogams, and fossil material) gained through unpaid and paid internships/fellowships as well as prior employment (ASU Herbarium, 2004; F herbarium 2006; PH Herbarium, 1997-2007; NY Herbarium 2007-2013). **2)** Curation of lichen-forming fungi during visits to numerous herbaria, particularly in North America. **3)** Routinely provides lichen identification services to professional and amateur lichenologists worldwide, as well as governmental and non-governmental agencies. **4)** Very proficient in the *International Code of Botanical Nomenclature/International Code of the Nomenclature for algae, fungi, and plants*, with more than ten years of experience in its application with respect the nomenclature of both fossil and extant organisms. **4)** More than ten years of experience in all aspects of specimen digitization, including the use of multiple imaging and database systems (Specify, KEmU, Access). During the period 2007-2020, incorporated >100,000 digital voucher records (both personal collections and those of others) into the C.V. Starr Virtual Herbarium at NYBG which provides data to multiple biodiversity repositories (GBIF, Consortium of North American Lichen Herbaria).

Laboratory: **1)** More than eight years of experience in molecular lab techniques including methods of data generation (lichen-specific sample preparation, DNA extraction, PCR, sequencing), data interpretation (sequence interpretation, sequence alignment, phylogenetic analysis, and phylogenetic theory), and data management (streamlined processing and organization of data, interface with GenBank, interface with electronic repositories including TreeBase and Dryad). **2)** More than fifteen years of experience in light microscopy (compound and dissecting, including staining techniques). **3)** Six years of experience in scanning electron microscopy (SEM). **4)** More than ten years of experience in a broad range of chemical methods to detect and elucidate lichen compounds (standard reagents ten years; TLC and HP-TLC ten years). **5)** Six years of experience in collection, processing, and preparation of fossil remains (plants, invertebrates, and vertebrates).

Editorial and Publishing Experience:

Nomenclature Editor, *Taxon*, *Journal of the International Association of Plant Taxonomists*, 2012-present

Nomenclature Editor, *The Bryologist*, 2016-present

Editor/Indexer, *Recent Literature on Lichens*, 2015-present.

Editor-in-Chief, *Opuscula Philolichenum* (<http://sweetgum.nybg.org/philolichenum/>), one-two volumes published yearly, typically ~100-300 pp. each, 2004-present. All issues available free of charge online, and indexed in Scopus.

English Language Editor, *Bulletin of the National Museum of Nature and Science, Series B*, Tokyo, 2018-present

Corresponding Editor, *Bartonia*, *Journal of the Philadelphia Botanical Club*, 2007-present.

Editor/Curator, *Lichens of Eastern North America Exsiccati* (issued +/- yearly, 50 numbers per fascicle, 20 sets, >1000 exchange specimens per fascicle, six fascicles issued), 2003-present.

Teaching Experience:

Introduction to Lichens – 2016, 2018, 2021 –Classes organized by J.L. Allen & Lendemer to teach basic concepts in lichenology and lichen identification focused on the Appalachian Biodiversity Hotspot. One week in 2016 and 2021, two weeks in 2018. – Western Carolina University/Highlands Biological Station.

The Lichen Biome – 2018 – Three weeklong class organized by E. Tripp & Lendemer to teach basic and advanced concepts in lichenology with an emphasis on evolutionary processes and an NGS-data phylogenetic analyses lab component – University of Colorado, Boulder

Rare Lichen Workshop – 2015 – Three day workshop organized by J.L. Allen & Lendemer to train land managers in field identification of rare southern Appalachian lichens. – Western Carolina University/Highlands Biological Station.

Introduction to Lichens – 2015 – Weeklong workshop organized by J.L. Allen & Lendemer to teach basic concepts in lichenology and lichen identification. – Western Carolina University/Highlands Biological Station.

Introduction to Crustose Lichen Identification – 2015 – Workshop organized by Edge of Appalachia Preserve System in southern Ohio to train participants in crustose lichen identification.

Introductory Lichenology – 2015, 2016(2x), 2017, 2018(2x), 2019(2x), 2020(2x) – Workshop for NYBG Adult Education “The Hidden World of Lichens”

Urban Lichen Identification – 2019 – Three-day workshop for NYBG Adult Education “Lichens Revealed”

Field Biogeography – Outreach as part of NSF-DEB 1145511 – 2013 – An original field course developed to introduce students to the principals of biogeography as seen in plant and fungal groups via traveling a transect from the southern Appalachians Mountains to the Atlantic Coast in North Carolina.

Sterile Crustose Lichens Workshop – 2013 – Cryptogamic Biodiversity Observatory at Southern Oregon University

Sterile Crustose Lichens - Humboldt Field Research Institute / University of Maine – 2010, 2012, 2018 – An original course developed and implemented to educate students about a highly diverse and critically understudied group of lichen-forming fungi.

Plant Taxonomy – CUNY – 2009 – Teaching Assistant

Training/mentorship of volunteers – Trained numerous volunteers, students, and interns in both laboratory (herbarium, molecular laboratory, chemical laboratory) and non-laboratory (during field trips and workshops) settings.

Committee Service Institutions and Societies (listed alphabetically by position title):

Alternate Member, Plant Sciences Advisory Committee, **CUNY Graduate Center/Lehman College**, 2016

Faculty Representative, Biology Curriculum Assessment Committee, **CUNY Graduate Center**, 2017

Faculty Representative, The Graduate Council, **CUNY Graduate Center**, 2018-2020

Faculty Representative, Biology Program Nominations Committee, **CUNY Graduate Center**, 2016-present (chair 2017-2018).

Member, Bryophyte and Lichen Technical Committee, **Pennsylvania Biological Survey**, 2006-present (chair 2008-2011)

Member, Fungal Technical Committee, **Pennsylvania Biological Survey**, 2006-present.

Member, Nomenclature Committee, **Mycological Society of America**, 2015-present.

Member, Nomenclature Committee for Fungi, **International Association of Plant Taxonomists**, 2014-present.

Member, Subcommittee on the Governance of the *Code* with Respect to Fungi, **International Association of Plant Taxonomists**, 2012-2017.

Student Representative, Executive Committee for Biology PhD Program, **CUNY Graduate Center**, 2010-2012

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.]

In press.

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

Lendemer, J.C. and K. Keepers. In press. *Bacidia depriestiana* (Ramalinaceae), a new species from the southern Appalachian Mountains of eastern North America. *The Bryologist*.

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].

- Keepers, K.G., C.S. Pogoda, **J.C. Lendemer**, N.C. Kane and E.A. Tripp. 2021. Author response to Gulnara et al. (2021): “Lichen fungi do not depend on alga for ATP production: A comment on Pogoda et al. (2018)”. *Molecular Ecology*: 10.1111/mec.16053 [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].
- 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].
- 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*: 10.1111/1365-2745.13734. [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].
- 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].

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 12February2019].
- 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 7August2019].
- 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

Anderson Stewart, C.R., **J.C. Lendemer**, K. Keepers, C. Pogoda, C.M. McCain, N. Kane and E.A. Tripp. 2018. *Lecanora markjohnstonii* (Lecanoraceae, lichenized Ascomycetes), a new sorediate crustose lichen from the southern Appalachian Mountains of eastern North America. *The Bryologist* 121(4): 498-512. [effectively published online 14 November 2018].

Asher, O.A. and **J.C. Lendemer**. 2018. *Lecanora caperatica* (Lecanoraceae, Lichenized Ascomycetes) a new sorediate species widespread in eastern North America. *The Bryologist* 121(3): 306-323. [effectively published online 5 September 2018].

Brigham, L.M., L.M. Allende, B.R. Shipley, K.C. Boyd, T.J. Higgins, N. Kelly, C.R. Anderson Stewart, K.G. Keepers, C.S. Pogoda, **J.C. Lendemer**, E.A. Tripp and N.C. Kane. 2018. Genomic insights into the mitochondria of nine eastern North American *Cladonia* species. *Mitochondrial DNA Part B: Resources* 3(2): 508-512. [effectively published online 26 April 2018].

Funk, E.R., A.A. Adams, S.M. Spotten, R.A. van Hove, K.T. Whittington, K.G. Keepers, C.S. Pogoda, **J.C. Lendemer**, E.A. Tripp and N. Kane. 2018. The complete mitochondrial genomes of five lichenized fungi in the genus *Usnea* (Ascomycota: Parmeliaceae). *Mitochondrial DNA Part B: Resources* 3(1): 305-308. [effectively published online 28 February 2018].

Hoffman, J.R. and **J.C. Lendemer**. 2018. A meta-analysis of trends in the application of Sanger and next-generation sequencing in lichenology. *The Bryologist* 121(2): 133-147.

Knudsen, K., **J.C. Lendemer** and J. Kocourkova. 2018. *Ramalina sarahae* (Ramalinaceae), a new species from the Channel Islands of California, U.S.A. *The Bryologist* 121(4): 513-519. [effectively published online 16 November 2018].

Lendemer, J.C. 2018a. [Review:] Microlichens of the Pacific Northwest: Volume 1 and 2. *The Bryologist* 121(1): 128-130.

Lendemer, J.C. 2018b. *Bacidia gullahgeechee* (Bacidiaceae, Lecanoromycetes) an unusual new species potentially endemic to the globally unique Ashepoo-Combahee-Edisto River Basin of southeastern North America. *The Bryologist* 121(4): 536-546. [effectively published online 16 November 2018].

Lendemer, J.C. 2018c. Lichens & Libations: Twelve Toasts to the Symbiosis. NYBG Press, Bronx, NY. [popular booklet highlighting lichen biodiversity in the southern Appalachian Mountains, also serving as a 2019 calendar that included monthly color photographs pairing lichens with seasonally appropriate cocktails].

Lendemer, J.C. and I.M. Brodo. 2018. Studies in Lichens and Lichenicolous Fungi – No. 21: Notes on *Lambiella caeca* and *L. fuscosora*. *Opuscula Philolichenum* 17: 269-274. [effectively published online 31 January 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.

Pogoda, C.S., K.G. Keepers, **J.C. Lendemer**, N.C. Kane and E.A. Tripp. 2018. Reductions in complexity of mitochondrial genomes in lichen-forming fungi shed light on genome architecture of obligate symbioses. *Molecular Ecology* 27(5): 1155-1169. [published online 8 February 2018].

Tripp, E.A. and **J.C. Lendemer**. 2018[2017]. Twenty-seven modes of reproduction in the obligate lichen symbiosis. *Brittonia* 70(1): 1-14. [effectively published online 12 December 2017 as doi: 10.1007/s12228-017-9500-6].

2017

Dorey, J., R.F.C. Naczi and **J.C. Lendemer**. 2017. Patterns of biodiverse, understudied groups do not mirror those of the surrogate groups that set conservation priorities: a case study from the Mid Atlantic Coastal Plain of eastern North America. *Biodiversity & Conservation* 27(1): 31–51. [effectively published online 22 August 2017 as doi: 10.1007/s10531-017-1420-y].

Knudsen, K., J. Kocourková and **J.C. Lendemer**. 2017. *Acarospora smaragdula* var. *lesdainii* forma *fulvoviridula* is a synonym of *Myriospora scabrada*. *Opuscula Philolichenum* 16: 312-316. [effectively published online 25 August 2017].

- Lendemer, J.C.** 2017a[2018]. Lichens and allied fungi of the Indiana Forest Alliance Ecoblitz Area, Brown and Monroe Counties, Indiana incorporated into a revised checklist for the State of Indiana. *Proceedings of the Indiana Academy of Sciences* 126(2): 129-152. [effectively published 3May2018].
- Lendemer, J.C.** 2017b. Revision of *Gyalideopsis ozarkensis* and *G. subaequatoriana* (Gomphillaceae; lichenized Ascomycetes), leads to the description of an overlooked new species. *The Bryologist* 120(3): 274-286. [effectively published online 25 July 2017 as doi: 10.1639/0007-2745-120.3.274].
- Lendemer, J.C.** 2017c. New and interesting records of lichens and lichenicolous fungi from Ohio. *OBELISK*, Newsletter of the Ohio Moss and Lichen Association 14(1): 9-16.
- Lendemer, J.C., C.R. Anderson Stewart, B. Besal, J. Goldsmith, H. Griffith, J.R. Hoffman, B. Kraus, P. LaPoint, L. Li, Z. Muscavitch, J. Schultz, R. Schultz and J.L. Allen.** 2017. The Lichens and Allied Fungi of Mount Mitchell State Park, North Carolina: A First Checklist with Comprehensive Keys and Comparison to Historical Data. *Castanea* 82(2): 69-97. [effectively published online 14 August 2017 as doi: 10.2179/17-126].
- Lendemer, J.C.** and R.C. Harris. 2017. Nomenclatural changes for North American members of the *Variolaria*-group necessitated by the recognition of *Lepra* (Pertusariales). *The Bryologist* 120(2): 182-189. [effectively published online 12 June 2017 as doi 10.1639/0007-2745-120.2.182].
- Lendemer, J.C.** and D. Ray. 2017. Two new pinicolous *Arthonia* (Arthoniaceae; Arthoniomycetes) from the Delmarva Peninsula of the Atlantic Coastal Plain in eastern North America. *The Bryologist* 120(1): 11-18. [effectively published online 14 February 2017 as doi: 10.1639/0007-2745-120.1.011].
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Lendemer, J.C. 2004b. Lichens of Eastern North America Exsiccati, Fascicle II, nos. 51-100. *Opuscula Philolichenum* 1: 25-40.

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Lendemer, J.C. and R.C. Harris. 2004. A checklist of the lichens collected on the 28th A. Leroy Andrews Foray. *Evansia* 21(2): 88-100.

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Ryan, B.D., H. Hertel and **J.C. Lendemer**. 2004. *Placynthiella*. In Bungartz, F., Diederich, P., Gries, C., Ryan, B.D., and Nash III, T.H. *Lichen Flora of the Greater Sonoran Desert Region*. II. Lichens Unlimited, Arizona State University, Tempe, Arizona, pp. 419-421.

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2002

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Spamer, E.E. and **J.C. Lendemer**. 2000. Type specimens of fossil plants in the Paleobotany Collection, of the Academy of Natural Sciences of Philadelphia - Revised catalogue. *Proceedings of the Academy of Natural Sciences of Philadelphia* 150: 315-328.

IUCN Red List Assessments:

2021

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

Hoffman, J.R., Y. Ohmura and **J.C. Lendemer**. 2021. *Cladonia submitis*. *The IUCN Red List of Threatened Species* 2021: e.T183335302A183335414.

2020

Allen, J.L., **J.C. Lendemer** and R.T. McMullin. 2020a. *Buellia sharpiana*. *The IUCN Red List of Threatened Species* 2020: e.T80702844A80702847.

Allen, J.L., **J.C. Lendemer** and R.T. McMullin. 2020b. *Hypotrachyna virginica* (amended version of 2020 assessment). *The IUCN Red List of Threatened Species* 2020: e.T71597387A180457322.

Allen, J.L., **J.C. Lendemer** and R.T. McMullin. 2020c. *Lepraria lanata*. *The IUCN Red List of Threatened Species* 2020: e.T80702927A80702930.

Allen, J.L., **J.C. Lendemer** and R.T. McMullin. 2020d. *Graphis sterlingiana*. *The IUCN Red List of Threatened Species* 2020: e.T80702901A80702904.

Allen, J.L., **J.C. Lendemer**, R.T. McMullin and E.A. Tripp. 2020. *Arthopyrenia betulicola*. *The IUCN Red List of Threatened Species* 2020: e.T80702824A80702827.

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- Lendemer, J.C.** 2020a. *Lepraria oxybapha*. *The IUCN Red List of Threatened Species* 2020: e.T180096958A180097011.
- 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.
- Lendemer, J.C.** 2020d. *Thelomma carolinianum*. *The IUCN Red List of Threatened Species* 2020: e.T80703121A80703126.
- Lendemer, J.C.** 2020e. *Sticta carolinensis*. *The IUCN Red List of Threatened Species* 2020: e.T175710250A175710707.
- Lendemer, J.C.** 2020f. *Sticta fragilinata*. *The IUCN Red List of Threatened Species* 2020: e.T175710297A175710712.
- Lendemer, J.C.** 2020g. *Phaeographis oricola*. *The IUCN Red List of Threatened Species* 2020: e.T80703002A80703005.
- Lendemer, J.C.** 2020h. *Arthonia cupressina*. *The IUCN Red List of Threatened Species* 2020: e.T80702807A80702810.
- Lendemer, J.C.** 2020i. *Lepraria normandinoides*. *The IUCN Red List of Threatened Species* 2020: e.T180096955A180097006.
- Lendemer, J.C.** 2020j. *Lepra andersoniae*. *The IUCN Red List of Threatened Species* 2020: e.T180875146A180875189.
- Lendemer, J.C.**, R.T. McMullin and J.L. Allen. 2020a. *Cladonia appalachensis*. *The IUCN Red List of Threatened Species* 2020: e.T80702853A80702858.
- Lendemer, J.C.**, R.T. McMullin and J.L. Allen. 2020b. *Pilophorus fibula*. *The IUCN Red List of Threatened Species* 2020: e.T80703047A80703054.
- McMullin, R.T., J.L. Allen and **J.C. Lendemer**. 2020. *Physconia subpallida*. *The IUCN Red List of Threatened Species* 2020: e.T80703034A80703037.
- 2019
- Allen, J.L., E. Tripp, J.C. Lendemer & T. Spribille. 2019. *Arthonia kermesina*. *The IUCN Red List of Threatened Species* 2019: e.T70385721A70385726.
- McMullin, R.T., J.L. Allen and **J.C. Lendemer**. 2019a. *Sulcaria isidiifera*. *The IUCN Red List of Threatened Species* 2019: e.T70386122A70386125.
- McMullin, R.T., J.L. Allen and **J.C. Lendemer**. 2019b. *Sulcaria badia*. *The IUCN Red List of Threatened Species* 2019: e.T80703097A80703100.
- Randlane, T., E. Tripp and **J.C. Lendemer**. 2019. *Santessoniella crossophylla*. *The IUCN Red List of Threatened Species* 2019: e.T71622372A71622534.
- 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.

Recent Literature on Lichens:

In press

Lendemer, J.C. In press. Recent Literature on Lichens–262. *The Bryologist*.

Lendemer, J.C. In press. Recent Literature on Lichens–263. *The Bryologist*.

2021

Lendemer, J.C. 2021. Recent Literature on Lichens–260. *The Bryologist* 124(1): 139–147.

Lendemer, J.C. 2021. Recent Literature on Lichens–261. *The Bryologist* 124(2): 313–322.

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.

Media:

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>]

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 Lendemmer, 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/>]

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]

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/>]

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/>]

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 Lendemmer – 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-lendemmer/>]

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/>]

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); Indiana Academy of Sciences (IAS); International Association of Plant Taxonomists (IAPT; **life member**); Mycological Society of America (MSA); Philadelphia Botanical Club (PBC; **life member**); Southern Appalachian Botanical Society (SABS; **life member**); Southern California Botanists (SCB); Torrey Botanical Society (TBS; **life member**).

Professional Presentations:

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

2021

***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

***Presentation** – NYBG Britton Gallery Talk (Bronx, NY) – Lost and found in New York City: Three centuries of lichen extinction, adaptation, and change

***Invited Seminar** – University of Tennessee (Knoxville, TN) – Appalachian Lichens: What Drives Diversity and Distributions for Threatened Fungal Symbioses in a Global Biodiversity Hotspot

2019

***Presentation** – Botany 2019 Meetings (Tucson, AZ) – Next Generation Lichenology: A Strategy to Advance Biodiversity Science Leveraging the Riches of the Past.

- ***Presentation** – Botany 2019 Meetings (Tucson, AZ) – Floristics as a foundation for training students broadly in plant and fungal diversity. [co-presented with N. Snow].
- ***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.
- ***Seminar** – The New York Botanical Garden (Bronx, NY) – The Lichencosm: Small fungi, big roles, important insights into obligate symbiosis
- ***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

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** – Contributions to Plant Systematics and Ecology (Philadelphia, PA): Ernie Schuyler: a Legacy Beyond the Crustose Lichens.
- ***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.
- ***Presentation** – Botany 2015 Meetings (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 Meetings (Edmonton, Canada) – Lichens in the Mid-Atlantic Coastal Plain: patterns and trends from four years of intensive biodiversity inventory.
- ***Symposium presentation** – Northeastern Herbarium Curators Meeting (Bronx, NY) – Rages to Riches: The Value of Cryptogam Big Data in the Biodiversity Information Synthesis.
- ***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.
- ***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
- ***Seminar** – The New York Botanical Garden (Bronx, NY): Mountains to Sea: Conservation of American Lichens and the Ecosystems They Support.

2014

- ***Symposium organizer and moderator** – Botany 2014 Meetings (Boise, ID): Conservation of North American Lichens and the Ecosystems They Support.
- ***Symposium presentation** – Botany 2014 Meetings (Boise, ID): Lichens, we hardly know thee: the state of lichens and lichen conservation in North America.
- ***Presentation** – Botany 2014 Meetings (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 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 world 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.
- ***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 Meetings (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 Meetings (New Orleans, LA): Lichen Biodiversity in the Mid-Atlantic Coastal Plain: patterns and trends amid a changing climate.
- Presentation – Botany 2013 Meetings (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 Meetings (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

Grants and Awards (pending or submitted proposals not listed here, are available upon request):

2021

National Science Foundation Award 2115190 – “Collaborative Research: Integrating Digitization, Exploration, Genomics, and Student Training to Illuminate Forces Shaping Appalachian Lichen Distributions” – PI at NY, together with PI J. Allen (at EWU). Total: \$745,732 (NY portion) + \$626,373 (EWU portion) = \$1,372,105 total

2019

Tallassee Fund – First Inventory of Lichens of the Little Tennessee River Drainage, With Emphasis on Low-Elevation and Riparian Communities and Rare Species – collaborative grant award \$32,868 (\$9,296 to PI-Lendemer at NYBG; \$23,572 to PI-Tripp at COLO).

Canadian Museum of Nature Visiting Scientist Award - \$2500 (CDN) to PI-Lendemer to visit CANL and carry out research on sterile crustose lichens, specifically revision of existing material in the herbarium

2018

National Park Service – PMIS 236370 – RBA Enhance rare lichen protection by assessing distribution and vulnerability to management actions – \$74,717.00 (to PIs Wendy Cass (NPS) and James Lendemer (NYBG))

2015

National Science Foundation Award 1542639 – “DIMENSIONS: COLLABORATIVE RESEARCH: Biodiversity Gradients in Obligate Symbiotic Organisms: A Case Study in Lichens in a Global Diversity Hotspot” – PI at NY, together with PI E. Tripp (at COLO) and co-PIs N. Kane & C. McCain. Total: \$758,699 (NY portion) + \$1,035,332 (COLO portion) = \$1,794,031 total

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 – “CSBR: Natural History: Expansion of the New York Botanical Garden Herbarium to Incorporate Newly Acquired Specimens and Improve Curation” – co-PI (B. Thiers, PI) - \$479,475

2012

National Science Foundation Award 114551 – “Lichen biodiversity in the threatened Middle Atlantic Coastal Plain of North America: Improving classification, conservation, and communication” – PI w/ R.C. Harris (co-PI) - \$727,597

Great Smoky Mountains Conservation Association – “Lichen diversity, ecology, and conservation in Great Smoky Mountains National Park” – Funding to J. Lendemer & E. Tripp. - \$5,000

2011

National Science Foundation Dissertation Improvement Grant Award 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 w/ W.R. Buck - \$12,290

Great Smoky Mountains National Park, Tallassee Foundation - “Lichens of the exposed limestone bluffs of western GSMNP” – Funding to J. Lendemer & E. Tripp - \$2,400

2010

Core Award, Southern Appalachian Botanical Society – “Assessing *Lepraria* (Stereocaulaceae, Lichenized Ascomycetes) biodiversity in the southern Appalachians” - \$300

2009

Torrey Botanical Society 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”. – (funding to E.A. Tripp to study w/ J.C. Lendemer & R.C. Harris) - \$2,750

California Lichen Society Student Grant – “Studies in the Genus *Lepraria* in California”. – \$1,000

2007

Bayard Long Award (Philadelphia Botanical Club) – “Lichens of the Limestone Barrens of the Great Northern Peninsula, Newfoundland, Canada.” – \$2,000

2005

Pennsylvania Department of Conservation and Natural Resources (DCNR) – “Preliminary survey of the lichen flora of eastern Pennsylvania. II”, – co-PI w/ J.A. Macklin.

2004

Pennsylvania Department of Conservation and Natural Resources (DCNR) – “Preliminary survey of the lichen flora of eastern Pennsylvania” – co-PI w/ J.A. Macklin.

Reviewer For:

American Journal of Botany, Australian Journal of Botany, Australian Systematic Botany, Bartonia, Biological Conservation, Botany, Bryologist, Environmental Monitoring and Assessment, Evansia, Forest Ecology and Management, Herzogia, Hoehnea, Journal of Biogeography, Lichenologist, Mycology, Mycotaxon, New Phytologist, Nordic Journal of Botany, Northeastern Naturalist, North American Fungi, Nova Hedwigia, 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, expected completion 2024. – Research focus: lichen 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 scheduled 2021. – 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 and **graduated 2017**. – Research focus: lichen conservation biology, population genomics, modelling.

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

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.

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. – Research focus: relationship between epiphytes and beech bark disease in central New York.

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

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.

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. – Research focus: herbaceous plant community assembly and trait dynamics in southern India.

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.

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*.

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 April 2012**. – Research focus: chemical profiling of lichen species from southern California, U.S.A.

Graduate Committee:

Drs. William R. Buck (advisor), Bernard Goffinet, Richard C. Harris, Dwight Kincaid, Joseph Rachlin.

Postdoctoral mentor:

Dr. Richard C. Harris

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 narrowly endemic to Colorado, U.S.A.)

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