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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. Assistant Curator, The New York Botanical Garden, Bronx, NY 2015-present
1. Postdoctoral Researcher, The New York Botanical Garden, Bronx, NY, 2012-2015.
2. Doctoral Research Fellow, The New York Botanical Garden, Bronx, NY, 2007-2012.
3. Science Scholar, The City University of New York, New York, NY, 2007-2009.
4. Research Associate, The Academy of Natural Sciences of Philadelphia, Philadelphia, PA, 2003-present.
5. Research Intern, The Field Museum of Natural History, Chicago, IL, 2006 (3 months).
6. McHenry Fellow, The Academy of Natural Sciences of Philadelphia, Philadelphia, PA, 2006.
7. 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: >45,000 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 2007-2013, incorporated >73,000 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)** Seven 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 ten 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 eight 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

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.

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:

Rare Lichen Workshop – 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. – 2005

Introduction to Lichens – Week long workshop organized by J.L. Allen & Lendemer to teach basic concepts in lichenology and lichen identification. –Western Carolina University/Highlands Biological Station. – 2005

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

Introductory Lichenology – Workshop for NYBG Adult Education “The Hidden World of Lichens” – 2015

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 – Cryptogamic Biodiversity Observatory at Southern Oregon University - 2013

Sterile Crustose Lichens - Humboldt Field Research Institute / University of Maine – 2012

Sterile Crustose Lichens - Humboldt Field Research Institute / University of Maine – 2010 – 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.

Legislative/Community Relations Experience:

Chairman, Bryophyte and Lichen Technical Committee, Pennsylvania Biological Survey, 2006-2011.

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

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

Publications:

[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.]

2015

- Allen, J.L. and **J.C. Lendemer**. 2015. *Japewiella dollypartoniana*, a new widespread lichen in the Appalachian Mountains of eastern North America. *Castanea* 80(1): 59-65. [effectively published in print, available online early 9 February 2015].
- Allen, J.L. and **J.C. Lendemer**. 2015a. Fungal Conservation in the USA. *Endangered Species Research* 28(1): 33-42. [effectively published online as doi: 10.3354/esr00678, 5 June 2015].
- Divakar, P.K., A. Crespo, M. Wedin, S.D. Leavitt, D.L. Hawksworth, L. Myllys, B. McCune, T. Randle, J.W. Bjerke, Y. Ohmura, I. Schmitt, C.G. Boluda, D. Alors, B. Roca-Valiente, R. Del-Prado, C. Ruibal, K. Buaruang, J. Núñez-Zapata, G.A. de Paz, V.J. Rico, M.C. Molina, J.A. Elix, T.L. Esslinger, I.K.K. Tronstad, H. Lindgren, D. Ertz, C. Gueidan, L. Saag, K. Mark, G. Singh, F. Dal Grande, S. Parmen, A. Beck, M.N. Benatti, D. Blanchon, M. Candan, P. Clerc, T. Goward, M. Grube, B.P. Hodkinson, J.-S. Hur, G. Kantvilas, P.M. Kirika, **J.C. Lendemer**, J.-E. Mattsson, M.I. Messuti, J. Miadlikowska, M. Nelsen, J.I. Ohlson, S. Pérez-Ortega, A. Saag, H.J.M. Sipman, M. Sohrabi, A. Thell, G. Thor, C. Truong, R. Yahr, D.K. Upreti, P. Cubas, H.T. Lumbsch. 2015. Evolution of complex symbiotic relationships in a morphologically derived family of lichen-forming fungi. *New Phytologist*. [effectively published online 24 August 2015 as doi: 10.1111/nph.13553].
- Gueidan, C. and **J.C. Lendemer**. 2015. Molecular Data Confirm Morphological and Ecological Plasticity within the North American Endemic *Willeya diffractella* (Verrucariaceae). *Systematic Botany* 40(2): 369-375. [effectively published online 10 August 2015 as doi: 10.1600/036364415X688808].
- Kraichak, E. R. Lücking, A. Aptroot, A. Beck, P. Dornes, V. John, **J.C. Lendemer**, M.P. Nelsen, G. Neuwirth, A. Nutakki, S. Parmen, M. Sohrabi, T. Tønsberg and H.T. Lumbsch. 2015. Hidden Diversity in the Morphologically Variable Script Lichen (*Graphis scripta*) Complex (Ascomycota). *Organisms Diversity & Evolution* 15: 447-458. [effectively published online 17 May 2015 as doi: 10.1007/s13127-015-0219-5].
- Lendemer, J.C.** 2015a. Lichens: Our Neglected and Imperiled Natives. *Marylandica* 6(1): 3-4. [popular article about lichens in Maryland].
- Lendemer, J.C.** 2015b. North Carolina Lichens: A National Treasure of Natives. *North Carolina Native Plant Society Newsletter* 13(1): 1, 8, 9 and 13. [popular article about the importance of lichens in North Carolina]
- Lendemer, J.C.** 2015c. *Lecanora layana* (Lecanoraceae), a new sorediate species widespread in temperate eastern North America *The Bryologist* 118(2): 145-153. [effectively published online 9 June 2015 as doi: 10.1639/0007-2745-118.2.145].

- Lendemer, J.C.** 2015d. *Parmotrema internexum* (Parmeliaceae, Ascomycetes): an overlooked macrolichen in southeastern North America highlights the value of basic biodiversity research. *The Bryologist* 118(2): 130-144. [effectively published online 15 January 2015 as doi: 10.1639/0007-2745-118.2.130].
- Lendemer, J.C.** and **J.L. Allen**. 2015. Reassessment of *Hypotrachyna virginica*, an endangered, endemic Appalachian macrolichen, and the morphologically similar species with which it has been confused. *Proceedings of the Academy of Natural Sciences of Philadelphia* 164(1): 279-289. [effectively published online 11 August 2015 as doi 10.1635/053.164.0117].
- Lendemer, J.C.** and **A.M. Ruiz**. 2015. Molecular data confirm morphological variability in the widespread foliose lichen *Canoparmelia caroliniana* (Parmeliaceae, Lichenized Ascomycetes). *Castanea* 80(1): 29-36. [effectively published in print, available online early 19 February 2015].
- Lendemer, J.C.** and R.C. Harris. 2015a. A nomenclatural note on *Mycoporum biseptatum* (basionym *Arthonia biseptata*). *Opuscula Philolichenum* 14: 116-117. [effectively published online 22 June 2015].
- Lendemer, J.C.** and R.C. Harris. 2015b. *Xyleborus nigricans*, a second species for this previously monospecific genus newly found in the Mid-Atlantic Coastal Plain of North America. *The Bryologist* 118(3): 284-292. [effectively published online 21 September 2015].
- Lendemer, J.C.**, **N. Noell** and **J.L. Allen**. 2015. The *Parmotrema* Acid Test: a look at species delineation in the *P. perforatum* group 40 y later. *Mycologia*: 10.3852/14-263. [available online 9 September 2015]
- Lendemer, J.C.** and E.A. Tripp. 2015. *Lecanora anakeesticola* (Lecanorales), an unusual new lichen species from the Great Smoky Mountains of eastern North America. *The Bryologist* 118(1): 1-10. [effectively published online 15 January 2015 as doi: 10.1639/0007-2745-118.1.001].
- Tripp, E.A. and **J.C. Lendemer**. 2015. *Candelariella clarkii* and *Lecidea hoganii*: two lichen species new to science from White Rocks Open Space, City of Boulder, Colorado. *The Bryologist* 118(2): 154-163. [effectively published online 9 June 2015 as doi: 10.1639/0007-2745-118.2.154].
- 2014
- Barton, J.W.** and **J.C. Lendemer**. 2014. *Micarea micrococca* and *M. prasina*, a summary of two very similar species in eastern North America. *The Bryologist* 117(3): 223-231. [effectively published online 18 July 2014]
- Benatti, M.N. and **J.C. Lendemer**. 2014. *Canoparmelia scrobicularis* belongs to the genus *Crespoa* (Parmeliaceae, lichenized Ascomycota). *Brittonia* 66(3): 287-291. [effectively published online 26 February 2014 as doi 10.1007/s12228-014-9331-7]
- Harris, R.C., E.A. Tripp and **J.C. Lendemer**. 2014. *Arthopyrenia betulicola* (Arthopyreniaceae, Dothidiomycetes), an unusual new lichenized fungus from high elevations of the southern Appalachian Mountains. *Aliso* 31(2): 77-81.
- Hodkinson, B.P. and **J.C. Lendemer**. 2014. A clarification of effective electronic publication. *Taxon* 63(4): 911-913. [available online 5 August 2014 as doi: 10.12705/634.17]
- Hodkinson, B.P., **J.C. Lendemer**, T. McDonald and R.C. Harris. 2014. The status of *Sticta sylvatica*, an “exceedingly rare” lichen species in eastern North America. *Evansia* 31(1): 17-24.
- Knudsen, K., **J.C. Lendemer** and J. Kocourková. 2014. *Lecanora annularis* (Lecanoraceae, Lecanorales), a new lichen species from Santa Cruz Island and the central California coast. *Monographs of the Western American Naturalist* 7: 221-224.
- Lendemer, J.C.** 2014. Relevant omissions from Hawksworth & al. (2237) Proposal to reject the name *Lichen quisquiliaris* to protect the name *Leprocaulon microscopicum*. *Taxon* 63(1): 203-204. [effectively published online 20 February 2014]
- Lendemer, J.C.** and **J. Allen**. 2014. Lichen Biodiversity under threat from Sea-Level Rise in the Atlantic Coastal Plain. *BioScience* 64: 923-931. [effectively published online 3 September 2014 as doi: 10.1093/biosci/biu136]
- Lendemer, J.C.** and R.C. Harris. 2014. Studies in Lichens and Lichenicolous Fungi – no. 18: resolution of three names introduced by Degelius and Magnusson based on material from the Great Smoky Mountains. *Castanea* 79(2): 106-117. [effectively published in print, available online early 14 April 2014 as doi: 10.2179/14-006]
- Lendemer, J.C.** and R.C. Harris. 2014a. Studies in Lichens and Lichenicolous Fungi – no. 17: Notes on Lichens from the Coastal Plain of Southeastern North America. *Opuscula Philolichenum* 13: 8-19. [effectively published online 12 March 2014]

- Lendemer, J.C.** and R.C. Harris. 2014b. Studies in lichens and lichenicolous fungi – No. 19: further notes on species from the Coastal Plain of southeastern North America. *Opuscula Philolichenum* 13: 155-176. [effectively published online 12 December 2014]
- Lendemer, J.C.** and R.C. Harris. 2014c. Seven new species of Graphidaceae (Lichenized Ascomycetes) from the Coastal Plain of southeastern North America. *Phytotaxa* 189(1): 7-38. [effectively published online 19 December 2014]
- Lendemer, J.C.** and T. Tønsberg. 2014. *Lepraria brodoi* (Stereocaulaceae, Lichenized Ascomycetes), a new species from the temperate rainforests of western Canada and southeastern Alaska, U.S.A. *Opuscula Philolichenum* 13: 20-25. [effectively published online 13 March 2014]
- Lendemer, J.C.** and E. Tripp. 2014. Discovery of *Gyalideopsis mexicana* in the United States. *North American Fungi* 9(7): 1-4. [effectively published online 29 September 2014]
- Lendemer, J.C.**, E. Tripp and J.W. Sheard. 2014. A review of *Rinodina* (Physciaceae) in Great Smoky Mountains National Park highlights the growing significance of this “island of biodiversity” in eastern North America. *The Bryologist* 117(3): 259-281. [effectively published online 30 July 2014]
- Lücking, R., A. Aptroot, K. Boonpragob, M.E.S. Caceres, D. Ertz, Z.-F. Jia, K. Kalb, E. Kraichak, **J.C. Lendemer**, A. Mangold, L. Manoch, J. Mercado-Diaz, B. Moncada, P. Mongkolsuk, K. Papong, S. Parmen, R. Pelaez, V. Poengsungnoen, E. Rivas Plata, W. Saipunkaew, J.H.M. Sipman, J. Sutkaritturakan, D. van den Broeck, M. von Konrat, G. Weerakoon and H.T. Lumbsch. 2014. One hundred and seventy-five new species of Graphidaceae: closing the gap or a drop in the bucket? *Phytotaxa* 189(1): 7-38. [effectively published online 19 December 2014]
- McMullin, R.T., **J.C. Lendemer**, R.C. Harris, C. Roy, J. Gagnon and S.R. Clayden. 2014. Discovery of *Hypogymnia pulverata* on the Gaspésie Peninsula in eastern Canada. *Opuscula Philolichenum* 13: 91-95. [effectively published online 15 July 2014]
- Miadlikowska, J., F. Kauff, F. Högnabba, J.C. Oliver, K. Molnár, E. Fraker, E. Gaya, J. Hafellner, V. Hofstetter, C. Guedian, M. Kukwa, R. Lücking, C. Björk, H.J.M. Sipman, A.R. Burgaz, A. Thell, A. Passo, L. Myllys, T. Goward, S. Fernández-Brime, G. Hestmark, **J. Lendemer**, H.T. Lumbsch, M. Schmuell, C. Schoch, E. Sérusiaux, D.R. Maddison, A.E. Arnold, F. Lutzoni and S. Stenroos. 2014. A multigene phylogenetic synthesis for the class Lecanoromycetes (Ascomycota): 1307 fungi representing 1139 infrageneric taxa, 317 genera and 66 families. *Molecular Phylogenetic and Evolution* 79: 132-168. [effectively published online 18 April 2014 as doi: 10.1016/j.ympev.2014.04.003]
- Miadlikowska, J., D. Richardson, N. Magain, B. Ball, F. Anderson, R. Cameron, **J.C. Lendemer**, C. Truong and F. Lutzoni. 2014. Phylogenetic placement, species delimitation, and cyanobiont identity of endangered aquatic *Peltigera* species (lichen-forming Ascomycota, Lecanoromycetes). *American Journal of Botany* 101(7): 1141-1154. [effectively published online 11 July 2014 as doi: 10.3732/ajb.1400267]
- Tripp, E.A. and **J.C. Lendemer**. 2014. Sleepless nights: when you can't find anything to use in describing taxa but molecules. *Taxon* 63(5): 969-971. [available online 22 August 2014 as doi: 10.12705/635.1]
- Yuzon, J., C. Roux, **J.C. Lendemer** and C. Gueidan. 2014. Molecular phylogeny and taxonomy of the endolithic lichen genus *Bagliettoa* (Verrucariaceae, Ascomycota). *Taxon* 63(3): 1177-1192. [effectively published in print 22 December 2014; available online as doi: 10.12705/636.10]

2013

- Allen, J. and **J.C. Lendemer**. 2013. Uncovering chemical variability: molecular data reveal the identity of a sterile crustose lichen from the Yukon and affirm an expanded circumscription for *Buellia griseovirens*. *North American Fungi* 8(12): 1-14. [effectively published online 16 September 2013]
- Brodo, I.M., R.C. Harris, W.R. Buck, **J.C. Lendemer** and C. Lewis. 2013. Lichens of the Bruce Peninsula, Ontario: Results from the 17th Tuckerman Workshop, 18-22 Sept. 2008. *Opuscula Philolichenum* 12: 198-232. [effectively published online 11 December 2013]
- Hodkinson, B.P. and **J.C. Lendemer**. 2013. Next-generation sequencing reveals sterile crustose lichen phylogeny. *Mycosphere* 4(6): 1028-1039. [effectively published online 01 November 2013]
- Hutten, M., U. Arup, T.L. Esslinger, A.M. Fryday, K. Knudsen, **J.C. Lendemer**, C. Printzen, H.T. Root, M. Schultz, J.W. Sheard, T. Tønsberg and B. McCune. 2013. Lichens and Lichenicolous Fungi of Yosemite National Park, California. *North American Fungi* 8(11): 1-47. [effectively published online 09 September 2013]
- Lendemer, J.C.** 2013. Two New Sterile Species of *Loxospora* (Sarrameanaceae: Lichenized Ascomycetes) from the Mid-Atlantic Coastal Plain. *Journal of North Carolina Academy of Sciences* 129(3): 71-81. [effectively published online 08 October 2013]

- Lendemer, J.C.** 2013a. *Thelomma ocellatum*, a range extension to the Yukon Territory and case study in the use of molecular data to recognize asexually reproducing crustose lichens. *North American Fungi* 8(13): 1-13. [effectively published online 26 September 2013]
- Lendemer, J.C.** 2013b. A monograph of the crustose members of the genus *Lepraria* Ach. s. str. (Stereocaulaceae, Lichenized Ascomycetes) in North America north of Mexico. *Opuscula Philolichenum* 13: 36-141. [effectively published online 20 October 2013]
- Lendemer, J.C.** 2013c. Shifting paradigms in the taxonomy of lichenized fungi: molecular phylogenetic evidence corroborates morphology but not chemistry in the *Lepraria neglecta* group. *Memoirs of the New York Botanical Garden* 108: 127-153.
- Lendemer, J.C.** and J. Bollivar. 2013. Obituary: Jonathan Paul Dey, 29 November 1943 - 19 November 2012. *International Lichenological Newsletter* 46(1): 12-14.
- Lendemer, J.C.** and R.C. Harris. 2013. *Buellia sharpiana* (Physciaceae, Lichenized Ascomycetes), Another New Species from the Great Smoky Mountains of Eastern North America. *Castanea* 78(2): 148-153. [effectively published online 23 February 2013 as doi 10.2179/13-002]
- Lendemer, J.C.** and R.C. Harris. 2013a. *Cladonia appalachensis*, belated description of a southern Appalachian lichen endemic from the Great Smoky Mountains. *Opuscula Philolichenum* 12: 17-22. [effectively published online 7 August 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].
- Lendemer, J.C.** and B.P. Hodkinson. 2013. A radical shift in the taxonomy of *Lepraria* s.l.: molecular and morphological studies shed new light on the evolution of asexuality and lichen growth form diversification. *Mycologia* 105(4): 994-1018. [effectively published in print 25 July 2013]
- McMullin, R.T. and **J.C. Lendemer**. 2013. Lichen Biodiversity and Conservation Status in the Copeland Forest Resources Management Area: A Lichen-Rich Second-Growth Forest in Southern Ontario. *The Canadian Field-Naturalist* 127(3): 1-15.

2012

- Brodo, I.M. and **J.C. Lendemer**. 2012. On the perplexing variability of reproductive modes in the genus *Ochrolechia*: Notes on *O. africana* and *O. arborea* in eastern North America. *Opuscula Philolichenum* 11: 120-134. [effectively published online 10 July 2012]
- Buck, W.R. and **J.C. Lendemer**. 2012. *Puttea* (Pilcarpaceae) in eastern North America. *Opuscula Philolichenum* 11: 141-144. [effectively published online 21 September 2012]
- Hodkinson, B.P. and **J.C. Lendemer**. 2012. Phylogeny and taxonomy of an enigmatic sterile lichen. *Systematic Botany* 37(4): 835-844. [effectively published online 23 October 2012]
- Lendemer, J.C.** 2012. Notice of the formation of the *International Committee for the Nomenclature of Lichens and Allied Fungi* (ICNLAF). *Opuscula Philolichenum* 11: 1-3. [effectively published online 03 January 2012]
- Lendemer, J.C.** 2012a. Why *Lepraria*? Why Lichens? Eight years of studying *Lepraria* in California. *Bulletin of the California Lichen Society* 18(2): 1-6.
- Lendemer, J.C.** 2012b. Perspectives on chemotaxonomy: molecular data confirm the existence of two morphologically distinct species within a chemically defined *Lepraria caesiella* (Stereocaulaceae). *Castanea* 77(1): 89-105. [effectively published online 02 April 2012]
- Lendemer, J.C.** 2012c. A tale of two species: molecular data reveal the chemotypes of *Lepraria normandinoides* (Stereocaulaceae) to be two sympatric species. *Journal of the Torrey Botanical Society* 139(2): 118-130.
- Lendemer, J.C.** 2012c. Contribution to the Lichen Flora of Pennsylvania. – Further New and Interesting Reports of Lichens and Lichenicolous Fungi, Part 2. *Evansia* 29(2): 56-60.
- Lendemer, J.C.** and F. Anderson. 2012. Molecular data confirm the identity of populations of the water fan lichen from eastern Canada as *Peltigera hydrothyria* s. str. *Opuscula Philolichenum* 11: 139-140. [effectively published online 21 September 2012]
- Lendemer, J.C.** and R.C. Harris. 2012. Studies in lichens and Lichenicolous fungi – no. 16. *Opuscula Philolichenum* 11: 313-321. [effectively published online 26 November 2012]
- Lendemer, J.C.** and B.P. Hodkinson. 2012a. Recognition of the *Parmelia crozalsiana* group as the genus *Crespoa*. *North American Fungi* 7(2): 1-5. [effectively published online 16 May 2012]
- Lendemer, J.C.** and B.P. Hodkinson. 2012b. *Chirleja buckii*, a new genus and species of lichenized-fungi from Tierra del Fuego, southern South America. *New Zealand Journal of Botany* 50(4): 449-506.

- Lendemer, J.C.**, J.W. Sheard, G. Thor and T. Tønsberg. 2012. *Rinodina chrysiata*, a new species from far eastern Asia and the Appalachian Mountains of North America. *The Lichenologist* 44(2): 179-187. [effectively published online 08 February 2012]
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- Lendemer, J.C.** and R. Yahr. 2004a. A checklist of the lichens collected during the Tuckerman Workshop #12, Outer Banks, North Carolina, USA. *Evansia* 21(3): 118-136.
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2003

- Lendemer, J.C.** 2003. *Dermiscellum oulochiela* (Tuck.) Lendemer *comb. nov.*, a case of forgotten priority and nomenclatural confusion in the family Physciaceae. *The Bryologist* 106(2): 311-313.
- Lendemer, J.C.** and J.A. Macklin. 2003. Type specimens of Pandanaceae in the herbarium of the Academy of Natural Sciences of Philadelphia. *Proceedings of the Academy of Natural Sciences of Philadelphia* 153: 167-175.
- Lendemer, J.C.** and I.I. Tavares. 2003. Nomenclature and typification in the genus *Usnea* (Lichenized Ascomycetes) I.: *Usnea rigida*. *Proceedings of the Academy of Natural Sciences of Philadelphia* 153: 177-180.
- Lendemer, J.C.** and I.I. Tavares. 2003a. Nomenclature and typification in the genus *Usnea* (Lichenized Ascomycetes) II.: *Usnea paradoxa* and *Usnea fallax*. *Proceedings of the Academy of Natural Sciences of Philadelphia* 153: 181-185.

2002

- Lendemer, J.C.** 2002. Rediscovery of “lost” Triassic fossil plant types: Components of the Wilhelm Bock Collection in the Academy of Natural Sciences of Philadelphia and in the Yale Peabody Museum. *Proceedings of the Academy of Natural Sciences of Philadelphia* 152: 205-214.
- Lendemer, J.C.** 2002a. *Lichens of Eastern North America Exsiccati, Fascicle I, nos. 1-50*. Philadelphia, Pennsylvania. 24pp.
- Lendemer, J.C.** and D.A. Hewitt. 2002. A catalogue of the type specimens of lichens in the Herbarium of the Academy of Natural Sciences of Philadelphia. *Proceedings of the Academy of Natural Sciences of Philadelphia* 150: 173-204.

2001

Lendemer, J.C. 2001. A catalogue of the type specimens of the taxa erected by Leo Lesquereux in the *Coal Flora* (1879, 1880). *Bartonia* 61: 55-80.

2000

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.

Media:

The Adaptors: Dollypartoniana and Other Lichens – Podcast about lichen research related to climate change. – 2015.
[URL: <http://www.theadaptors.org/episodes/2015/6/18/dollypartoniana-and-oher-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/>]

An Interview with Dr. R.T. McMullin author of “Common Lichens of Northeastern North America – Interview filmed as part of NYBG Press outreach about lichen conservation and field guide usage. – 2015

[URL: https://www.youtube.com/watch?v=XEZbpIugU_g&feature=youtu.be]

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://www.sciencefriday.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: <http://the-scientist.com/2011/08/01/an-unlichenly-pair/>]

Professional Affiliations (non-institutional):

American Bryological and Lichenological Society (ABLS); American Society of Plant Taxonomists (ASPT); Botanical Society of America (BSA); California Lichen Society (CALS); International Association of Plant

Taxonomists (IAPT); Mycological Society of America (MSA); Philadelphia Botanical Club (PBC); Southern Appalachian Botanical Society (SABS); Southern California Botanists (SCB); Torrey Botanical Society (TBS).

Professional Presentations:

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

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.
- ***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 Seminary 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 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.
- ***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:

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

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 “ – PI- \$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.

Current Graduate Student:

Jessica Allen, City University of New York, New York, U.S.A. – PhD dissertation, qualifying exam passed 2013, proposal defense passed 2015.

Graduate Committees Served On:

Michalová Markéta, Czech University of Life Sciences, Prague, Czech Republic. – Master's thesis, defended April 2012.

Naveed Davoodian, City University of New York, New York, U.S.A. – External member for second examination/proposal defense, fall 2014.

Graduate Committee:

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

Postdoctoral mentor:

Dr. Richard C. Harris

Eponymy:

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

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