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EDUCATION

- 1994-1999 **Ph.D. Biological Sciences** (D.Sc – Doctor of Science), UNIVERSITY OF GDANSK, GDANSK, POLAND. Title of Ph.D. dissertation: “Revision of the genus *Peltigera* (Peltigerineae, Ascomycota) in Poland based on a world-wide phylogenetic synthesis of morphological, chemical and molecular data”. Supervisor: Prof. W. Faltynowicz
- 1987-1989 **M.Sc. Biological Sciences**, UNIVERSITY OF GDANSK, GDANSK, POLAND. Title of M.Sc. dissertation: “Lichens of the Lebska Bar Nature Reserve (N Poland)”. Supervisor: Prof. W. Faltynowicz
- 1983-1987 **B.Sc. Biological Sciences**, UNIVERSITY OF GDANSK, GDANSK, POLAND.

PROFESSIONAL ACADEMIC APPOINTMENTS

- 2016-pres. **INSTRUCTOR B**, Department of Biology, Duke University, Durham, NC (Biology 201L: Gateway to Biology: Molecular Biology).
- 2016-pres. **SENIOR RESEARCHER AND LAB MANAGER**, Department of Biology, Duke University, Durham, NC (laboratory of Dr. F. Lutzoni)
- 2004-2016 **LABORATORY RESEARCH ANALYST II**, Department of Biology, Duke University, Durham, NC (laboratory of Dr. F. Lutzoni).
- 2001-2004 **POSTDOCTORAL RESEARCH ASSOCIATE**, Department of Biology, Duke University, Durham, NC (laboratory of Dr. F. Lutzoni).
- 1999/2001 **POSTDOCTORAL RESEARCH ASSOCIATE**, Department of Botany, Field Museum of Natural History, Chicago, IL (laboratory of Dr. F. Lutzoni).
- 1999-2004 **ADJUNCT PROFESSOR**, Department of Plant Taxonomy and Nature Conservation, University of Gdansk, Gdansk, Poland.
- 1989-1999 **GRADUATE TEACHING ASSISTANT**, Department of Plant Ecology and Nature Protection, University of Gdansk, Gdansk, Poland. Instructor in the following courses: Systematics and Morphology of Cryptogamic Plants and Fungi, Systematics of Vascular Plants; Fundamentals of Lichenology, and Lichens as Bioindicators. Supervisor of two Masters theses in Lichenology.
- 1987-1989 **TECHNICIAN AND RESEARCH ASSISTANT**, Department of Plant Ecology and Nature Protection, University of Gdansk, Gdansk, Poland.

EDITORSHIPS

- 2018-pres. **ASSOCIATE EDITOR**, Mycologia, Mycological Society of America.
- 2017-pres. **EDITOR-IN-CHIEF** (with A. Flakus), Plant and Fungal Systematics (former Polish Botanical Journal), Polish Academy of Science, Krakow, Poland.

OTHER ACADEMIC APPOINTMENTS AND ACTIVITIES

- 2013-2019 **MEMBER OF THE RESEARCH AWARDS COMMITTEE (CHAIR – in 2018)** of the Mycological Society of America.
- 2012-2020 **MEMBER OF THE COUNCIL** for the International Association for Lichenology (Member-et-Large, Nomination Committee).
- 2001-2006 Participant in the Research Coordination Networks in Biological Sciences: A Phylogeny for Kingdom Fungi (Deep Hyphae). Network funded by NSF.
- 1994-1999 Member of the Scientific Committee of "Nadwislanskie Landscape Parks", Swiecie, Poland.
- 1994-1998 Secretary of the Lichenological Section of the Polish Botanical Society, Poland.

REVIEWER FOR:

- 2001-present The Bryologist, The Lichenologist, Canadian Journal of Botany, Molecular Phylogenetics and Evolution, Mycologia, Mycological Research, Mycological Progress, International Microbiology, Biodiversity and Conservation, Phytotaxa, Biodiversity and Conservation, International Microbiology, Systematics and Biodiversity, Opuscula Philolichenum, Taxon.

PROFESSIONAL AFFILIATIONS

International Association for Lichenology, Mycological Society of America.

PROFESSIONAL RECOGNITIONS

- 2019 **INVITED SPEAKER** for the symposium on the roles of Beringia and the Arctic in the diversification history of *Peltigera* at the Botanical Society of America, July 18-22nd 2020 in Anchorage, Alaska.
- 2017 **INVITED KEYNOTE SPEAKER** part of the symposium: **“Leading Women in Fungal Biology”** (Evolution of lichen symbiosis from the perspective of *Peltigera* and its *Nostoc* partner) organized by the Westerdijk Institute to celebrate Johanna Westerdijk life and career, Utrecht, Netherlands, August 30-31.
- 2012 **INVITED KEYNOTE LECTURE** “Novel molecular markers and their utility in molecular systematics of fungi”; The 7th International Association for Lichenology Symposium, Bangkok, Thailand, January 9-13.
- 2002 **MYCOLOGICAL SOCIETY OF AMERICA STUDENT AND YOUNG INVESTIGATOR FOREIGN TRAVEL AWARD** to attend International Mycology Congress 7, Oslo, Norway.
- 2000 **MASON E. HALE AWARD** for an outstanding work resulting from a doctoral dissertation by a young lichenologist; International Association for Lichenology, Barcelona, Spain.
- 2000 **“DEEP GREEN” STUDENT TRAVEL AWARD** to Botany 2000; Botanical Society of America, Portland, Oregon, U.S.
- 1995 **GDANSK SCIENTIFIC SOCIETY ANNUAL AWARD FOR SCIENTIFIC ACHIEVEMENTS**; Gdansk, Poland.
- 1993 **AWARD FOR SCIENTIFIC ACHIEVEMENTS FOR YOUNG SCIENTIST**; Foundation for Development of the University of Gdansk, Gdansk, Poland.

PROFESSIONAL DEVELOPMENT

- 2018-19 **PARTICIPANT IN THE TEACHING FOR EQUITY** program. Duke University.

- 2017-pres. **PARTICIPANT** of multiple workshops and events on teaching (e.g., organized by Duke Learning Innovation). Duke University.
- 2015-pres. **PARTICIPANT** of multiple workshops on teaching strategies and mentoring to increase retention, persistence and success of students, especially from underrepresented groups in STEM (e.g., organized by Duke Learning Innovation), Duke University.
- 2015 **PARTICIPANT** of The Second International Workshop on Ascomycete Systematics (Invited to give a talk: J. Miadlikowska, S. Stenroos, F. Lutzoni: Overview of the Lecanoromycetes), Amsterdam, The Netherlands.
- 2001 **PARTICIPANT** of the workshop on Molecular Evolution, Marine Biological Laboratory, Woods Hole, MA, U.S.A.
- 1998 **PARTICIPANT** of the workshop “Progress in molecular studies of lichens”, Institut fur Botanik, Karl-Franzens Universitat Graz, Graz, Austria.
- 1996 **PARTICIPANT** of the Advanced Course on Lichenology “Biology and Systematics of Lichens and Lichenicolous Fungi”, Lovstabruk, Sweden.
- 1997 **PARTICIPANT** of The 1st Workshop on *Verrucariales*, Institut fur Botanik, Karl-Franzens Universitat Graz, Graz, Austria.

GRANTS

- 2019 \$413,082 (September 1, 2019 – August 31, 2022). NSF, DEB – Population & Community Ecology, Systematics & Biodiversity Sciences; BEE: Spatio-temporal factors shaping symbiotic networks: a case study with cyanolichens. **Co-PI with F. Lutzoni as PI.**
- 2016 \$227,485 (March 3, 2017-Feb. 29, 2020). OPUS11, National Science Center, Poland; Species delimitation and phylogeny of neotropical *Lecanora* s.l. (lichen-forming Ascomycota, Lecanoromycetes) from Bolivia based on multilocus and phenotypic data. **Co-PI with L. Sliwa as PI.**
- 2015 \$149,943 (Feb. 1, 2016-Jan. 31, 2018). NSF DEB- Phylogenetic, Systematics; SG: Combining phylogenetics and network analyses for the study of symbiotic systems: a case study using lichens. **Co-PI with F. Lutzoni as PI.**
- 2015 \$735,285 of a total of \$2,489,809 (Jan. 1, 2016-Dec. 31, 2020). NSF Go-Life; Collaborative Research: Filling the the largest void of the fungal genealogy of life (the Pezizomycotina) and integrating symbiotic, environmental and physiological data layers. **Co-PI with F. Lutzoni as lead PI, in collaboration with PI Betsy Arnold (University of Arizona, Tucson), PI Ignazio Carbone (North Carolina State University), PI Erik Hom (University of Mississippi) and PI Louise Lewis (University of Connecticut).**
- 2013 \$6,250 (Jan. 1, 2013 – August 31, 2013). REU supplement (for Duke undergraduate student Anh Huynh) to NSF grant DEB–Systematic Biology and Biodiversity Inventory REVSYS: Phylogenetic revision of the lichen-forming genus *Peltigera* (Ascomycota): Disentangling cryptic speciation, phenotypic plasticity, and hybridization. **PI with F. Lutzoni as Co-PI**
- 2010 \$405,478 (September 1, 2010 – August 31, 2013). NSF DEB–Systematic Biology and Biodiversity Inventory; REVSYS: Phylogenetic revision of the lichen-forming genus *Peltigera* (Ascomycota): Disentangling cryptic speciation, phenotypic plasticity, and hybridization. **PI with F. Lutzoni as Co-PI**
- 2007 \$950,520 of a total of \$3,000,000 (Oct. 1, 2007 – Aug. 31, 2012). NSF Assembling the Tree of Life; Collaborative Research: AFTOL – resolving the evolutionary history of the Fungi. **Co-PI with R. Vilgalys and F. Lutzoni as (PIs).**

- 2001 Mellon Training Grant in Systematic Botany for conducting phylogenetic studies of lichenicolous fungi; Department of Biology, Duke University, Durham, NC (\$1,100).
- 2000 Travel Grant, Polish Academy of Science (PAN), International agreement on scientific and technical collaboration between PAN and NSF for conducting a molecular study on lichenized Ascomycota from the suborder Peltigerineae in the Pritzker Laboratory for Molecular Systematics and Evolution at the Field Museum in Chicago (\$1,000).
- 2000 Financial aid to attend the IAL4 meeting; International Association for Lichenology, Barcelona, Spain (\$300).
- 1999/2000 Postdoctoral Fellowship, NSF, International Program/Eastern Europe Division, as a supplement to Dr. François Lutzoni's NSF grant DEB-9615542; "Tri-membered symbiotic associations as a key innovation for the radiation of the Peltigerales (lichen-forming Ascomycota)"; Department of Botany, Field Museum of Natural History, Chicago (\$22,000).
- 1999/2000 Kosciuszko Foundation Grant (American Center for Polish Culture, New York - Warsaw) to conduct research on lichen associations from the suborder Peltigerineae at the Pritzker Laboratory for Molecular Systematics and Evolution, Field Museum of Natural History, Chicago, in collaboration with Dr. François Lutzoni (\$16,400).
- 1996-1999 Dissertation Improvement Grant KBN 1170/PO4/96/10, Polish Committee of Science, Warsaw, Poland; "Phylogeny of the genus *Peltigera* (lichen-forming) based on morphological, chemical and large subunit ribosomal DNA"; University of Gdansk, Gdansk, Poland (\$10,000).
- 1997 University of Gdansk grant BW 1100/5/02607; "Ribosomal DNA variation in populations and species of the lichen genus *Peltigera* (Ascomycota, Peltigerales)", studies conducted at Department of Botany, The Field Museum, Chicago, under supervision of Dr. F. Lutzoni (\$2,500).
- 1996 Travel Grant, Foundation of Stefan Batory (Warsaw, Poland), for participating in the meeting of International Association for Lichenology (IAL3), Salzburg, Austria (\$700).
- 1995/1996 Individual Mobility Grant No. IMG-95-PL-1056, Polish Tempus Office, Warsaw, Poland, studies of lichenicolous fungi at the International Mycological Institute (IMI), Egham, U.K. under supervision of Prof. D.L. Hawksworth (\$3,000).
- 1995 University of Gdansk grant BW/1100-5-0240-5 "Taxonomy and distribution of *Peltigera* species in Poland" (\$2,500).
- 1994 University of Gdansk grant BW/1100-5-0064-4 "Taxonomy and distribution of lichenicolous fungi in Poland" (\$750).

ACADEMIC SCHOLARSHIPS/INTERNSHIPS/FELLOWSHIPS

- 1999-2001 Postdoctoral Fellowship, Department of Botany, Field Museum of Natural History, Chicago; granted by NSF, KBN and the Kosciuszko Foundation for coevolutionary studies on symbiotic relationship within the suborder Peltigerineae (2 years).
- 2000 Fellowships, Michigan State University, East Lansing; revisionary work on Peltigerales in the MSC herbarium (2 weeks).
- 1997 Internship, Department of Botany, Field Museum of Natural History, Chicago, granted by The Field Museum and Polish KBN; molecular systematic work on the genus *Peltigera* and revision of *Peltigera* collection deposited at the FMNH herbarium (7 months).

- 1994-1997 Internships, Botanical Museum, University of Helsinki (Finland); Botanical Museum, University of Copenhagen (Denmark); Institut für Botanik, Karl-Franzens-Universität Graz (Austria) to study the genus *Peltigera* and peltigericolous fungi (3 months).
- 1996 Scholarship, Botanical Institute, University of Bergen, Norway; granted by Norwegian Government; studies on secondary substances of the genus *Peltigera* using thin layer chromatography (3 months).

OUTREACH

- 2017-18 As part of the Dimensions of Biodiversity project on endophytic and endolichenic fungi (endobiodiversity.org) and our new GoLife grant focusing on Pezizomycotina biodiversity, I co-organized an exhibit for Darwin Day at the North Carolina Museum of Natural Sciences in Raleigh, NC. We introduced visitors to lichens, endophytic and mycorrhizal fungi.
- 2017 Identified lichen collection (ca. 30 specimens) from North Carolina to be used in various outreach activities organized by the North Carolina Museum of Natural Sciences in Raleigh, NC.
- 2016 As part of the Dimensions of Biodiversity project on endophytic and endolichenic fungi (endobiodiversity.org) and our new GoLife grant focusing on Pezizomycotina biodiversity, I co-organized an exhibit for Darwin Day 2016 at the North Carolina Museum of Natural Sciences in Raleigh, NC. Our exhibit was entitled "Evolution of solar-powered symbiotic fungi". We introduced visitors to lichens, endophytic and mycorrhizal fungi.
- 2014 As part of an Ellerbe Creek Watershed Association (ECWA) activity, I led together with Dr. F. Lutzoni a two-hour workshop on lichen symbiosis at Bennett Place. This activity was open to the public in the Durham area.
- 2013 As part of the NSF funded REVSYS project on the genus *Peltigera* (<http://www.peltigera.lutzonilab.net/node/1610>), I co-organized with F. Lutzoni and members of the Lutzoni Lab two workshops on lichen symbiosis (March 2 and 9, 2013) for high school students at the North Carolina School of Science and Mathematics (NCSSM). The goals of these workshops were to introduce these high school students to Duke University, to lichens, to the Lutzoni lab, and to select two students to join the lab for hands-on experience conducting research as part of this project. A total of 17 NCSSM students and two teachers took this workshop.

SYMPOSIA ORGANIZATION

- 2016 Symposium on Peltigerales. The 8th International Association for Lichenology (IAL), Helsinki, Finland (with B. Moncada) – invited by organizers.
- 2008 Symposium "Endolichenic fungi and bacteria: Implications for symbioses. The 6th International Association for Lichenology (IAL) Symposium. US, California, Asilomar (with J. Duckett) – invited by organizers.
- 2005 Symposium "Evolution of fungal symbioses with photosynthetic organisms: insights from lichen- and plant-associated fungi". XVII International Botanical Congress. Vienna, Austria (with A. E. Arnold).
- 2002 Symposium "Non-mycorrhizal interactions between fungi and photoautotrophs". The Seventh International Mycological Congress (IMC7). Oslo, Norway (with S. Zoller).
- 1999 "Molecular methods in lichen taxonomy", Polish-American Symposium; Department of Plant Ecology and Nature Protection, University of Gdansk, Gdansk.
- 1998 The 51st Congress of the Polish Botanical Society, Gdansk, Poland; editor of abstracts.

REFEREED PUBLICATIONS

1. Miadlikowska, J., Magain, N., Buck, W. R., Vargas Castillo, R., Barlow, G. T., Pardo-De la Hoz, C. J., LaGreca, S. and Lutzoni, F. 2020. *Peltigera hydrophila* (Lecanoromycetes, Ascomycota), a new semi-aquatic cyanolichen species from Chile. Plant and Fungal Systematics 95: XXX-XXX (E. Serusiaux Festschrift).
2. Magain, N., Goffinet, B., Simon, A., Seelan Sathiya Seelan, J., Medeiros, I., Lutzoni, F. and Miadlikowska, J. 2020. *Peltigera serusiauxii* (Lecanoromycetes, Ascomycota), a new species from Papua New Guinea and Malaysia. Plant and Fungal Systematics 95: XXX-XXX (E. Serusiaux Festschrift).
3. Flakus, A., Etayo, J., Miadlikowska, J., Lutzoni, F., Kukwa, M., Matura, N. and Rodriguez-Flakus, P. 2019. Biodiversity and phylogenetic placement of ascomycetous fungi inhabiting *Lobariella* lichens in Andean cloud forests, and new species concept for the genus *Spirographa*. Plant and Fungal Systematics 94: 283-344 (J. Lawrey Festschrift).
4. Magain, N., Spribille, T., DiMeglio, J., Nelson, P. R., Miadlikowska, J. and Sérusiaux, E. 2019. Phylogenetic evidence for an expanded circumscription of *Gabura* (Arctomiaceae). Lichenologist (in press).
5. U'Ren, J. M., Lutzoni, F., Miadlikowska, J., Zimmerman, N. B., Carbone, I., May, G. and Arnold, A. E. 2019. Host filtering at local scales supports high circumboreal diversity of fungal endophytes. Nature Ecology and Evolution 3:1430-1437.
6. Carbone, I., White, J. B., Miadlikowska, J., Arnold, A. E., Miller, M. A., Magain, N., U'Ren, J. M., Lutzoni, F. 2019. T-BAS version 2.1: Tree-Based Alignment Selector toolkit for evolutionary placement and viewing of alignments and metadata on curated and custom trees. Microbiology Resource Announcements 8:e00328-19.
7. Chagnon, P. L., Magain, N., Miadlikowska, J., Lutzoni, F. 2019. Species diversification and phylogenetically constrained symbiont switching generated high modularity in the lichen genus *Peltigera*. Journal of Ecology 107:1645-1661.
8. Pardo-De la Hoz, C., Magain, N., Goward, T., Lutzoni, F., Restrepo, S. and Miadlikowska, J. 2018. Contrasting symbiotic patterns in two sister lineages of trimembered lichens in the genus *Peltigera*. Frontiers in Microbiology 9: 2770.
9. Lutzoni, F., Nowak, M. D., Alfaro, M. E., Reeb, V., Miadlikowska, J., Arnold, A. E., Hibbett, D., Hilu, K., James, T. Y., Quandt, D. and Magallón, S. 2018. Synchronized radiations of fungi and plants linked to symbiosis. Nature Communication 9: 5451.
10. McCune, B., Arup, U., Breuss, O., Di Meglio, E., Di Meglio, J., Esslinger, T. L., Magain, N., Miadlikowska, J., Miller, A. E., Muggia, L., Nelson, P. R., Rosentreter, R., Schultz, M., Sheard, J. W., Tønsberg, T. and Walton, J. 2018. Biodiversity and Ecology of Lichens of Katmai and Lake Clark National Parks and Preserves, Alaska. Mycosphere 9: 859-930.
11. Magain, N., Truong, C., Goward, T., Niu, D., Goffinet, B., Sérusiaux, E., Vitikainen, O., Lutzoni, F. and Miadlikowska, J. 2018. Global species delimitation of *Peltigera* section *Peltigera* (lichenized *Ascomycota*, *Lecanoromycetes*) reveals high species richness with complex biogeographical history and patterns of associations. Taxon 67: 836-870.
12. Lu, J., Magain, N., Miadlikowska, J., Coyle, J., Truong, C. and Lutzoni, F. 2018. Bioclimatic factors at an intrabiome scale are more limiting than symbiont availability for the lichen-forming genus *Peltigera*. American Journal of Botany 105: 1198-1211.
13. Chagnon, P. L., Magain, N., Miadlikowska, J. and Lutzoni, F. 2018. Strong specificity and

- network modularity at a very fine phylogenetic scale in the lichen genus *Peltigera*. Oecologia 187: 767-782.
14. Miadlikowska, J., Magain, N., Pardo-De la Hoz, C., Niu, D., Goward, T., Sérusiaux, E., and Lutzoni, F. 2018. Species in section *Peltidea* (*aphthosa* group) of the genus *Peltigera* remain cryptic after molecular phylogenetic revision. Plant and Fungal Systematics 63: 45-64.
 15. Magain, N., Miadlikowska, J., Mueller, O., Gajdeczka, M., Salamov, A., Grigoriev, I., Goffinet, B., Sérusiaux, E. and Lutzoni, F. 2017. Conserved genomic collinearity as a source of broadly applicable, fast evolving, markers to resolve species complexes: a case study using the lichen-forming genus *Peltigera* section *Polydactylon*. Molecular Phylogenetics and Evolution 117: 10-29.
 16. Heidmarsson, S., Gueidan, C., Miadlikowska, J. and Lutzoni, F. 2017. Multi-locus phylogeny supports the placement of *Endocarpon pulvinatum* within *Staurothele* s. str. (lichenised ascomycetes, Eurotiomycetes, Verrucariaceae). Phytotaxa 306: 37-48.
 17. Carbone, I., White, J., Miadlikowska, J., Arnold, A. E., Miller, M., Kauff, F., Schoch, C., U'Ren, J., May, G. and Lutzoni, F. 2017. T-BAS: Tree-Based Alignment Selector toolkit for phylogenetic-based placement, alignment downloads, and metadata visualization: an example with the Pezizomycotina tree of life. Bioinformatics 33:1160-1168.
 18. Magain, N., Miadlikowska, J., Goffinet, B., Sérusiaux, E. and Lutzoni, F. 2017. Macroevolution of specificity in cyanolichens of the genus *Peltigera* section *Polydactylon* (Lecanoromycetes, Ascomycota). Systematic Biology 66: 74-99.
 19. Darnajoux, R., Zhang, X., McRose, D. L., Miadlikowska, J., Lutzoni, F., Kraepiel, A. M. L. and Bellenger, J.-P. 2017. Biological nitrogen fixation by alternative nitrogenases in boreal cyanolichens: importance of molybdenum availability and implications for current biological nitrogen fixation estimates. New Phytologist 213: 680-689.
 20. van Nieuwenhuijzen, E. J., Miadlikowska, J. M., Houbraken, F. A. M. P., Adan, O. C. G., Lutzoni, F. and Samson, R. A. 2016. Wood staining fungi revealed taxonomic novelty in Pezizomycotina: new order Superstartomycetales and a new species *Cyanodermella oeloligni*. Studies in Mycology 85: 107-124.
 21. Magain, N., Sérusiaux, E., Zhurbenko, M. P., Lutzoni, F. and Miadlikowska, J. 2016. Disentangling the *Peltigera polydactylon* species complex by recognizing two new taxa, *P. polydactylon* subsp. *udeghe* and *P. seneca*. Herzogia 29:514-528.
 22. Hestmark, G., Lutzoni, F. and Miadlikowska, J. 2016. Photobiont associations in co-occurring umbilicate lichens with contrasting modes of reproduction in coastal Norway. The Lichenologist 48:545-557.
 23. U'Ren, J., Miadlikowska, J., Zimmerman, N. B., Lutzoni, F., Stajich, J. E. and Arnold, A. E. 2016. Contributions of North American endophytes to the phylogeny, ecology, and taxonomy of Xylariaceae (Sordariomycetes, Ascomycota). Molecular Phylogenetics and Evolution 98:210-232.
 24. Manoharan-Basil, S. S., Miadlikowska, J., Goward, T., Andresson, O. and Miao, P. W. 2016. *Peltigera islandica*, a new cyanolichen species in section *Peltigera* (*P. canina* group'). The Lichenologist 48:451-467.
 25. Chagnon, P.-L., U'Ren, J. M., Miadlikowska, J., Lutzoni, F. and Arnold, A. E. 2016. Interaction type influences ecological network structure more than local abiotic conditions: Evidence from endophytic and endolichenic fungi at a continental scale. Oecologia 180:181-191.
 26. Chen, K.-H., Miadlikowska, J., Molnár, K., Arnold, A. E., U'Ren, J. M., Gaya, E., Gueidan, C. and Lutzoni, F. 2015. Phylogenetic analyses of eurotiomycetous endophytes reveal their close affinities to Chaetothyriales, Eurotiales and a new order – Phaeomoniellales. Molecular Phylogenetics and Evolution 85:117-130.

27. Darnajoux, R., Lutzoni, F., Miadlikowska, J. and Bellenger, J.-P. 2015. Determination of elemental baseline using peltigeralean lichens from Northeastern Canada (Québec): Initial data collection for long term monitoring of the impact of global climate change on boreal and subarctic areas in Canada. Science of the Total Environment 533:1-7.
28. Gueidan, C., Hill, D. J., Miadlikowska, J. and Lutzoni, F. 2015. Chapter 4. Pezizomycotina: Lecanoromycetes. Pp. 89–120 in: Volume VII B of The Mycota, Systematics and Evolution (D. J. McLaughlin and J. W. Spatafora, eds.). Springer Verlag, Berlin, Germany.
29. Divakar, P. K., Crespo, A., Wedin, M., Leavitt, S. D., Hawksworth, D. L., Myllys, L., McCune, B., Randle, T., Bjerke, J. W., Ohmura, Y., Schmitt, I., Boluda, C. G., Alors, D., Roca-Valiente, B., Del-Prado, R., Ruibal, C., Buaruang, K., Nuñez-Zapata, J., de Paz, G. A., Rico, V. J., Molina, M. C., Elix, J. A., Esslinger, T. L., Tronstad, I. K. K., Lindgren, H., Ertz, D., Gueidan, C., Saag, L., Mark, K., Singh, G., Dal Grande, F., Parnmen, S., Beck, A., Benatti, M. N., Blanchon, D., Candan, M., Clerc, P., Goward, T., Grube, M., Hodkinson, B. P., Hur, J.-S., Kantvilas, G., Kirika, P. M., Lendemer, J., Mattsson, J.-E., Messuti, M. I., Miadlikowska, J., Nelsen, M., Ohlson, J. I., Perez-Ortega, S., Saag, A., Sipman, H. J. M., Sohrabi, M., Thell, A., Thor, G., Truong, C., Yahr, R., Upreti, D. K., Cubas, P. and Lumbsch, H. T. 2015. Evolution of complex symbiotic relationships in a morphologically derived family of lichen-forming fungi. New Phytologist 208: 1217–1226.
30. Miadlikowska, J., Richardson, D., Magain, N., Ball, B., Anderson, F., Cameron, R., Lendemer, J., Truong, C. and Lutzoni, F. 2014. Phylogenetic placement, species delimitation, and cyanobiont identity of endangered aquatic *Peltigera* species (lichen-forming Ascomycota). American Journal of Botany 101:1141-1156.
31. Miadlikowska, J., Kauff, F., Högnabba, F., Oliver, J. C., Molnár, K., Fraker, E., Gaya, E., Hafellner, J., Hofstetter, V., Gueidan, C., Kukwa, M., Lucking, M., Björk, C., Sipman, H. J. M., Burgaz, A. R., Thell, A., Passo, A., Myllys, L., Goward, T., Fernández-Brime, S., Hestmark, G., Lendemer, J., Lumbsch, H. T., Schmitt, M., Schoch, C., Sérusiaux, E., Maddison, D. R., Arnold, A. E., Stenroos, S. and Lutzoni, F. 2014. Multigene phylogenetic synthesis for the class Lecanoromycetes (Ascomycota): 1307 fungi representing 1139 infrageneric taxa, 312 genera and 66 families. Molecular Phylogenetics and Evolution 79:132-168.
32. Darnajoux, R., Constantin, J., Miadlikowska, J., Lutzoni, F. and Bellenger, J.-P. 2014. Is vanadium a biometal for boreal cyanolichens? New Phytologist 202:765-771. DOI: 10.1111/nph.12777
33. U'Ren, J. M., Riddle, J. M., Monacell, J. T., Carbone, I., Miadlikowska, J. and Arnold, A. E. 2014. Tissue storage and primer selection influence pyrosequencing-based inferences of diversity and community composition of endolichenic and endophytic fungi. Molecular Ecology Resources 14: 1032-1048.
34. O'Brien, H. E., Miadlikowska, J. and Lutzoni, F. 2013. Assessing population structure and host specialization in lichenized cyanobacteria. New Phytologist 198:557-566.
35. U'Ren, J. M., Lutzoni, F., Miadlikowska, J., Laetsch, A. D. and Arnold, A. E. 2012. Host- and geographic structure of endophytic and endolichenic fungi at a continental scale. American Journal of Botany 99: 898–914.
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INVITED TALKS

- 1 Miadlikowska, J., Magain, N., Lu, J., Chagnon, P-L., Goffinet, B., Serusiaux, E., Lutzoni, F. 2017. Evolution of lichen symbiosis from the perspective of *Peltigera* and its *Nostoc* partner. Talk presented at the International Botanical Congress in Shenzhen, China, July 23-29.
- 2 U'Ren, J. M., Lutzoni, F., Miadlikowska, J., Leo, A., May, G., Carbone, I., Arnold, A. E. 2017. Boreal endolichenic fungal community structure at local, regional, and global scales. Talk presented as

part of "Future Arctic" a global initiative on bryophyte and lichen Arctic research: from species to ecosystems, Université Laval, Québec, Canada, May 24-26.

- 3 [Arnold, A. E.](#), U'Ren, J. M., Miadlikowska, J., Carbone, I., Huang, Y.-L., Bowman, E. A., May, G., Lutzoni, F. 2016. Perspectives from leaves and lichens on the scale and distribution of the global endobiome. Presented as part of a symposium at the annual meeting of the Mycological Society of America, University of California, Berkeley, August 7-11
- 4 Carbone, I., White, J. B., Miadlikowska, J., Arnold, A. E., Miller, M. A., Kauff, F., Schoch, C., U'Ren, J. M., May, G., Lutzoni, F., 2016. T-BAS: Tree-based alignment selector toolkit for phylogenetic-based placement, alignment downloads, and metadata visualization: an example with the Pezizomycotina tree of life. Presented as part of a symposium entitled "Dimensions of fungal biodiversity: mycology at the interface of genetic, phylogenetic, and functional diversity" at the annual meeting of the Mycological Society of America, University of California, Berkeley, August 7-11.
- 5 Miadlikowska, J., Stenroos, S. and Lutzoni F. "Overview of the Lecanoromycetes". As part of the Second International Workshop on Ascomycete Systematics, CBS-KNAW Fungal Biodiversity Center, Royal Netherlands Academy of Arts and Sciences, Amsterdam, Netherlands, April 22-23, 2015.
- 6 Miadlikowska, J., [Magain, N.](#), Sérusiaux, E. and Lutzoni, F. 2014. Evolution of specificity in fungi-cyanobacteria symbioses: a case study in *Peltigera* section *Polydactylon*. As part of a concurrent session "Biodiversity of Fungi" at the 28th Fungal Genetics Conference, Asilomar, CA, March 17-22, 2015.
- 7 Bellenger, J.-P., Darnajoux, R., Hodkinson, B., Miadlikowska, J. and Lutzoni, F. 2013. Metal homeostasis in the tri-membered lichen *Peltigera aphthosa*: another demonstration of the potential importance of vanadium to N₂ fixation worldwide. As part of a symposium entitled "Metal speciation in living cells" at the 96th Canadian Chemistry Conference, Québec city, Canada, May 26-30, 2013.
- 8 Miadlikowska, J., Ball, B., López-Giráldez, F., Townsend, J. P., Gaya, E., McDonald, T., Joneson, S., Gryganskyi, A., Porter, T. M., Matheny, B., Kobert, K., Stamatakis, A., Robbertse, B., Spatafora, J., Hibbett, D., Vilgalys, R. and Lutzoni, F. 2012. Novel molecular markers and their utility in molecular systematics of Fungi. Annual meeting of the Mycological Society of America (MSA), Yale, University, New Haven, Connecticut. *Inoculum* 63: 32.
- 9 Lutzoni, F., Magallon, S., Nowak, M., Alfaro, M., McDonald, T., Miadlikowska, J. and Reeb, V. 2012. The Dating of fungi and plants. As part of a symposium entitled "Molecular Phylogenetics" at the 7th International Association for Lichenology Symposium, Bangkok, Thailand, January 9-13, 2012.
- 10 Lutzoni, F., Miadlikowska, J., Reeb, V., Nowak, M., Molnar, K., U'Ren, J., Kauff, F., Gaya, E., Alfaro, M., Magallón, S. and Arnold, A. E. 2011. A comprehensive phylogenetic overview of spatial and host distribution of endolichenic and endophytic fungi based on 15,000 tissue samples. As part of a symposium entitled "Mechanisms of fungal-plant interactions: perspectives from the interface of ecology, evolutionary biology, and genomics" at the annual meeting of the Mycological Society of America, Fairbanks, Alaska, August 1-6, 2011.
- 11 Miadlikowska, J. November 2009. As part of the International Symposium entitled "Origin of Biodiversity by Biological Interactions." National Museum of Nature and Science, Tokyo, Japan.
- 12 Miadlikowska, J. May 2009. Exploring lichen symbiosis and its contribution to the diversification of Ascomycota. The British Lichen Society meeting in honor of Dr. Bryan Coppins retirement, Royal Botanic Garden, Edinburgh, Scotland.
- 13 Miadlikowska, J. 2009. Dissecting lichen symbiosis and its contribution to diversification of the Ascomycetes. Invitation from the University of Connecticut, Department Ecology and Evolutionary Biology, Storrs, Connecticut, USA; seminar series.

- 14 Lutzoni, F., Kauff, F., Oliver, J., Miadlikowska, J., Lenards, A. and Maddison, D. August 2008. Past, present, and future of AFTOL phyloinformatics. As part of a symposium entitled "Resolving the evolutionary history of the Fungi". Annual meeting of the Mycological Society of America, Penn. State University.
- 15 Miadlikowska, J., Arnold, A. E., and Lutzoni, F. 2006. Leaves and lichens are cradles of fungal diversification. 8th International Mycological Congress. Cairns, Australia.
- 16 Miadlikowska, J. 2006. Lecanoromycetes. Invitation for the preparation of a manuscript on the Lecanoromycetes part of the special Deep Hypha issue of Mycologia, Deep Hypha Group meeting, Baton Rouge, Louisiana, USA.
- 17 Lutzoni, F., Arnold, A. E., Kauff, F., Miadlikowska, J. and Reeb, V. November 2005. Symbioses and their roles in the origin and maintenance of diversity. Symposium 14: Phylogeny and biodiversity science. Organized by Michael J. Donoghue. First DIVERSITAS Open Science Conference. Oaxaca, Mexico.
- 18 Lutzoni, F., Reeb, V., Kauff, F. and Miadlikowska, J. July 2005. A pluralistic approach as a global solution for phylogenetic analysis of complex data sets. As part of a symposium entitled "Character coding in phylogenetic inference". XVII International Botanical Congress, Vienna, Austria.
- 19 O'Brien, H., Miadlikowska, J. and Lutzoni, F. August 2004. Patterns of specificity in cyanobacterial lichen symbioses. Fifth congress of the International Association for Lichenology, Tartu, Estonia.
- 20 Miadlikowska, J. December 2004. Phylogenetic walk through peltigeralean fungi (Peltigerales, Ascomycota) and their symbiotic associations. University of Ottawa, Department of Biology and Canadian Museum of Nature, Ottawa, Canada.
- 21 Miadlikowska, J. 2003. Phylogenetic walk through peltigeralean fungi (Peltigerales, Ascomycota) and their symbiotic associations. University of Montreal, Department of Biological Sciences, Montreal, Canada.
- 22 O'Brien, H., Miadlikowska, J. and Lutzoni, F. 2003. A multi-locus study of cyanobacterial specificity associated with four closely related species of lichen-forming fungi. Symposium on lichen symbiosis. 4th International Symbiosis Society Congress Halifax, Nova Scotia, Canada.
- 23 Miadlikowska, J. 2000. "Phylogeny of the genus *Peltigera* (Peltigerineae, Ascomycota) based on multiple data sets and coevolution of symbiotic associations within the suborder Peltigerineae." Kansas State University, Lawrence, Kansas, USA.
- 24 Miadlikowska, J. and Lutzoni, F. 1999. *Peltigera* revisited. International Botanical Congress, St. Louis, USA.
- 25 Miadlikowska J. and Lutzoni, F. 1998. Phylogenetic revision of the genus *Peltigera* based on morphological, chemical and DNA data. As part of the Workshop "Progress in molecular studies on lichens", Graz, Austria.

SCIENTIFIC PRESENTATIONS/PUBLISHED ABSTRACTS

1. Simon, D. M., Codina, A., Johnson, D., Kleier, D., Miadlikowska, J., Gaya, E., Hartman, S., Lutzoni, F. Degeneration of a nuclear rRNA group I intron in *Teloschistes chrysophthalmus*. Evolution 2017 meeting, Portland, Oregon, June 23-27. (Poster).
2. Darnajoux, R., Zhang, X., Magain, N., McRose, D., Miadlikowska, J., Kraepiel, A., Lutzoni, F., Bellenger, J.-P. 2017. Vanadium nitrogenase in boreal cyanolichens: activity and regulation. Goldschmidt Conference, Paris, France, August 13-18. (Poster.)
3. Magain, N., Gajdeczka, M., Mueller, O., Truong, C., Miadlikowska, J., Lutzoni, F. 2016. Conserved genomic collinearity in Pezizomycotina to develop broadly applicable fast-evolving markers to

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