

CURRICULUM VITAE



Cathy Lynn Cripps

Mycologist & Associate Professor

Curator MONT Fungal Herbarium

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Key words: basic and applied research on higher fungi in managed and natural systems; systematics, diversity, and ecology of higher fungi (Basidiomycota, Agaricales) in mountain systems, forests, arctic-alpine habitats, and on disturbed sites (particularly in smelter-impacted soils); ectomycorrhizae of aspen, whitebark pine, alpine plants and in reclamation and reforestation; Specialty Mushroom Farming in Montana; identification of fungi, systematics of *Inocybe* (Inocybaceae).

PROFESSIONAL EMPLOYMENT AT MONTANA STATE UNIVERSITY

2016-2019: Professor, Dept. of Plant Sciences and Plant Pathology, Montana State Univ.

2011-present Institute of the Environment affiliated professor

2009-present Molecular Biosciences Program affiliated professor

1995-present Curator MONT Fungal Herbarium

2009-2016: Associate Professor, Dept. of Plant Sciences and Plant Pathology, MSU.

2003-2009: Assistant Professor, Dept. of Plant Sciences and Plant Pathology, MSU.

1995-2003: Assistant Adjunct and Research Professor, Plant Pathology Dept, MSU.

EDUCATION

Virginia Polytechnic Inst. & S.U., Blacksburg, VA. Biology Dept., Ph. D. 1995 Biology/Mycology

Virginia Polytechnic Inst. & S.U., Blacksburg, VA. Biology Dept., M.Sc. 1992 Biology/Mycology

Graduate Professor for M.Sc. and Ph.D, Dr. Orson K. Miller, Jr.

University of Michigan, Ann Arbor, MI. B.S. School of Natural Resources, Environmental Sci.

AWARDS

2018 Fridley Award for Teaching Excellence (Montana State University)

2016 Salzman award for Mycology (Telluride Mushroom Group-Regional)

2014 Field Mycologist honored at the Minnesota State Fair (Minn. Mycol. Society)

2012. North American Mycological Society Award, 'Contributions to Amateur Mycology'

2007. Teaching Award of Merit. North American Colleges and Teachers of Agriculture

2005. Elected to the Phi Kappa Phi Honor Society

2002. Excellence in Teaching Award: Montana State University

1996. Martin-Baker Research Award in Mycology, Mycological Society of America

1994. Graduate Student Teaching Excellence Award (University-wide), Virginia Polytechnic Inst.

EDITORIAL POSITIONS

2010-2015, Associate Editor, *North American Fungi*

2010-present, Review Editor, *Fungi*

PROFESSIONAL SOCIETIES

Mycological Society of America

North American Mycological Society

International Arctic-alpine Mycology Researchers
Whitebark Pine Ecosystem Foundation
International Mycorrhizal Society 2006-present, member
Southwest Montana Mycological Society (Leader) 1990-present

MONTANA STATE UNIVERSITY COMMITTEES – 14 assignments

COLLEGE OF AGRICULTURE & PLANT SCIENCES & PLANT PATHOLOGY COMMITTEES-- 25 assignments

NATIONAL SCIENCE FOUNDATION GRANT REVIEW PANEL – several panels

AD HOC GRANT REVIEWER

National Science Foundation, USDA, USDA, National Geographic, International Granting agencies, and other agencies.

JOURNAL REVIEWER

Arctic, Antarctic & Alpine Research, Australasian Journal of Mycology, Botany, Canadian Journal of Botany, Grøenland Bioscience, Forests, Frontiers of Microbiology, Mycologia, Mycotaxon, MykoKey, Mycological Research, North American Fungi, Northwest Science, Persoonia, Polar Biology, Sommerfeltia (Norway), Sydowia, Torrey Botanical

GRADUATE STUDENTS, POSTDOCS, SABBATICAL PROFESSORS

Chance Noffsinger – current student. Jenkins, Marlee, M.Sc. 2016. Ed Barge M.Sc. 2016. Lonergan, Erin, M.Sc. 2012. Trusty, P. M.Sc., 2009. Mohatt, KR. M.Sc., 2006. Mahony, C. M.Sc. 2005. Osmundson, Todd M.Sc. 2004. Significant involvement in degrees for: Kudlahar, Prianka, M.Sc. 2017. Worapong, Jeerapun Ph.D. 2001. Keck, John, M.Sc. 2001. **POST DOCS** 2008-2009. Grimme, Eva. 2003-2004. Cha, Jooyoung. **SABBATICAL PROFESSOR** 2009-2010. Antibus, Robert.

TEACHING ASSIGNMENT AT MSU

BIOM 423 Mycology
BIOM 424 Ecology of Fungi
BIOM 280 Magical Mushrooms & Miracle Molds
BIOB 256 Biology: cells to organisms – up to 2013
PSP 592: Advanced Mycology (as needed)
PSP 524 Advanced Plant Pathology (team taught)

PUBLICATIONS

Books

Cripps, C.L., Evenson, V., and Kuo, M. (authors) 2016. *The Essential Guide to Rocky Mountain Mushrooms by Habitat*. University of Illinois Press. ISBN 97802520339966. Pp. 260.
Cripps, C.L. and Ammirati, J. (editors). 2010. *Arctic and Alpine Mycology* 8. *North American Fungi* 5: 1-232. PNWFUNGI.ORG ISSN 1937-786X
Cripps, C.L. (editor) 2004. *Fungi in Forest Ecosystems: Systematics, Diversity and Ecology*. New York Botanical Garden Press, New York. Library of Congress ISBN 0-89327-459-3. Pp. 363.

Selected Chapters

Cripps, C.L. (2019) *Alpine fungi of the Beartooth Plateau and their Arctic connection*. 2018. Absaroka-Beartooth Atlas. Published by organization.
Dahlberg, A. Bültmann, H., Cripps, C.L., Eyjólfsdóttir, G., Gulden, G., Kristinsson, and Zhurbenko, M. 2013. *Global Assessment of Fungi and Lichens in Arctic Ecosystems*. In: *Status and Trends in Arctic Biodiversity. Conservation of Arctic Flora and Fauna*. Pp. 688. [Contributing author]

Keane, R.E., Tomback, D.F., Aubry, C.A., Bower, A.D., Campbell, E.M., Cripps, et al. 2012. A range-wide restoration strategy for whitebark pine (*Pinus albicaulis*). GTR RMRS-GTR-279. Fort Collins, CO: U.S.D.A, F.S. Rocky Mountain Research Station. Pp. 108.

Selected Journal Articles

- Cripps, C.L., Larsson, E., Vauras, J. 2019. Nodulose-spored *Inocybe* from the Rocky Mountain alpine zone molecularly linked to European and type specimens. *Mycologia* online prepub. 21 pp.
- Cripps, C.L., Eberhardt, U., Schutz, N., Beker, H.J., Evenson, V.S., and Horak, E. 2019. The genus *Hebeloma* in the Rocky Mountain alpine zone. *MycKeys* 46: 1-54.
- Zamora, J.C. et al. (400 authors, including C. Cripps). 2018. Considerations and consequences of allowing DNA sequence data as types of fungal taxa. *IMA Fungus* 9(1): 167–175.
- Cripps, C.L., Alger, G., Sissons, R. 2018. Designer niches promote seedlings survival in forest restoration: a 7-year study of whitebark pine (*Pinus albicaulis*) seedlings in Waterson Lakes National Park. *Forests* 9: 477, 14 pgs. doi:10.3390/f9080477 www.mdpi.com/journal/forests
- Jenkins, M., Cripps, C., Gains-Germain, L. 2018. Scorched Earth: *Suillus* colonization of *Pinus albicaulis* seedlings planted in wildfire-impacted soil affects seedling biomass, foliar nutrient content, and isotope signatures. *Plant and Soil* 425: 113-131.
- Antibus, R., Hobbie, E., Cripps, C. 2018. Sporocarp ¹⁵N isotope signature and use of inorganic and organic nitrogen in vitro differ among host-specific suilloid fungi associated with high elevation five-needle pines. *Mycoscience* 59: 294-302.
- Larsson, E., Vauras, J., Cripps, C.L. 2017 (2018). *Inocybe lemmi*, a new species of section Marginatae from the alpine region of Sweden. *Karstenia*, 57: 1-9.
- Larsson, E., Vauras, J., Cripps, C. 2017(2018). *Inocybe praetervisa* group – a clade of four closely related species with partly different geographical distribution ranges in Europe. *Mycoscience* 59: 277-287.
- Cripps, C.L., Lindgren, J.E. and E.G. Barge. 2017. A new name for an *Amanita* with Western 5-needle pines. *Mycotaxon* July-Sept issue: 665–676.
- Ammirati, J.F., Niskanen T., Liimatainen, K., B. Dimitar, Peintner, U., Kuhnert–Finkernagel, R. & Cripps, C. 2017. Spring and early summer species of *Cortinarius*, subgenus *Telamonia*, section Colymbadini and / *Flavobasilis*, in the mountains of western North America. *Mycologia* 109(3): 443-458.
- Barge, E.G., and C.L. Cripps. 2016. New reports, phylogenetic analysis, and a key to *Lactarius* Pers. in the Greater Yellowstone Ecosystem informed by molecular data. *MycKeys* 15: 1-58. 58 pp.
- Barge, E.G., Cripps, C.L., and T.W. Osmundson. 2016. Systematics of the ectomycorrhizal genus *Lactarius* in the Rocky Mountain alpine zone. *Mycologia* 108(2): 414-440. 26 pp.
- Cripps, C.L., Liimatainen, K., Niskanen, T., Dima, B., Bishop, R.F., and J.F. Ammirati. 2015. Intercontinental distributions of species of *Cortinarius*, subgenus *Phlegmacium*, associated with *Populus* and *Salix* in western North America. *Botany*, 2015, 93(11): 711-721.
- And 36 additional peer-reviewed publications.

REVIEWED AND NON-REVIEWED ABSTRACTS FOR PROFESSIONAL CONFERENCES

95 talks and poster presentations

INVITED MYCOLOGICAL FORAYS/PRESENTATIONS for AMATUER GROUPS

-50 invited talks in 13 states. Chief Mycologist for three NAMA national Forays and for two annual Denver Mushroom Fairs.