

## CURRICULUM VITAE

### Mary Catherine Aime

Assistant Professor

Department of Plant Pathology and Crop Physiology

302 Life Sciences Building,

Louisiana State University, Baton Rouge, LA 70803

Telephone: 225-578-1383, Fax: 225-578-1415

E-mail: maime@agcenter.lsu.edu

## EDUCATION

2001 Ph.D. (Biology), Virginia Polytechnic Institute and State University, Blacksburg, VA

1999 M.S. (Biology), Virginia Polytechnic Institute and State University, Blacksburg, VA

1995 B.S. (Biology), Virginia Polytechnic Institute and State University, Blacksburg, VA

## PROFESSIONAL EXPERIENCE

2007-present Assistant Professor. *Louisiana State University Agricultural Center*, Baton Rouge, LA.

2003-2007 Research Mycologist. *USDA-Agricultural Research Service, Systematic Botany and Mycology Laboratory*, Beltsville, MD

2001-2003 Research Associate. *University of Oxford*, Oxford, U.K

1996-1997 Teaching Assistant. *Virginia Polytechnic Institute and State University*, Blacksburg, VA.

## TEACHING EXPERIENCE

2001-2003 *Demonstrator (part-time), University of Oxford*: Plant and Microbial Biology, Hilary 2002; Microorganisms OB2-1, Michaelmas 2002; Honour Moderations Microorganisms Practicals, Michaelmas 2001; Forestry, Michaelmas 2001.

1997-2001 *Teaching Assistantships, Virginia Polytechnic Institute and State University*: Honors Biology (BIOL 1205H), Spring 2001; Introductory Mycology (BIOL 4244), Fall 2000 & Fall 1997; Plant Molecular Ecology and Evolution (BIOL 4984), Spring 2000; General Biology Laboratory for Majors (BIOL 2984), Spring 1999; Developmental Plant Anatomy (BIOL 4204), Fall 1998; Advanced Mycology—Lichenology (BIOL 5224), Spring 1998; General Biology Laboratory (BIOL 1016), Spring 1997

## PEER REVIEWED PUBLICATIONS

2000. Henkel TW, Aime MC, Miller SL. Systematics of pleurotoid Russulaceae from Guyana and Japan, with notes on their ectomycorrhizal status. *Mycologia* 92:1119-1132.

2001. Miller OK, Aime MC. Systematics, Ecology, and World Distribution in the Genus *Chroogomphus* (Gomphidiaceae). Pp.315-333. *In*: Misra JK and Horn BW (Eds). *Trichomyces and Other Fungal Groups: Robert W. Lichtwardt Commemoration Volume*. Science Publishers, Inc. Enfield, NH, USA.

2002. Aime MC, Ball J. The mating system in two species of *Crepidotus*. *Mycotaxon* 81:191-194.

2002. Aime MC, Baroni TJ, Miller OK. *Crepidotus thermophilus* comb. nov., a reassessment of *Melanomphalia thermophila*, a rarely collected tropical agaric. *Mycologia* 94(6):1059-1065.

2002. Aime MC, Miller OK. Delayed germination of basidiospores in temperate species of *Crepidotus* (Fr.) Staude. *Canadian Journal of Botany* 80:280-287.

2002. Miller OK, Aime MC, Camacho F, Peintner U. Two new species of *Gomphidius* from the Western United States and Eastern Siberia. *Mycologia* 94(6):1044-1050.

2002. Miller SL, Aime MC, Henkel TW. Russulaceae of the Pakaraima Mountains of Guyana. I. New species of pleurotoid *Lactarius*. *Mycologia* 94(3):545-553.

2002. Moncalvo JM, Vilgalys R, Redhead SA, Johnson JE, James TY, Aime MC, Hofstetter V, Verduin SJW, Larsson E, Baroni TJ, Thorn RG, Jacobsson S, Cl  men  on H, Miller OK. One hundred and seventeen clades of euagarics. *Molecular Phylogenetics and Evolution* 23:357-400.

2003. Aime MC, Henkel TW, Ryvarden L. Studies in neotropical polypores 15: new and interesting species from Guyana. *Mycologia* 95(4): 614-619.

2003. Matheny PB, Aime MC, Henkel TW. New species of *Inocybe* from *Dicymbe* forests of Guyana. *Mycological Research* 107(4):495-505.
2004. Aime MC. Intercompatibility tests and phylogenetic analysis in the *Crepidotus* Sphaerula group complex: Concordance between ICGs and nuclear rDNA sequences highlight phenotypic plasticity within Appalachian species. Pp. 71-80. In: Cripps CL (Ed). *Fungi in Forest Ecosystems: Systematics, Diversity, and Ecology*. New York Botanical Gardens, NY.
2004. Berner DK, Eskandari FM, Rossman AY, Aime MC, Kashefi J. First report of Anthracnose of *Crupina vulgaris* Caused by a *Colletotrichum* sp. in Greece. *Plant Disease* 88:1161.
2004. Henkel TW, Aime MC, Chin M, Andrew C. Edible mushrooms from Guyana. *The Mycologist* 18(3):104-111.
2004. Henkel TW, Roberts P, Aime MC. Sebacinoid species from the Pakaraima Mountains of Guyana. *Mycotaxon* 89(2):433-439.
2004. Hernández J, Aime MC, Newbry B. *Aecidium kalanchoe* sp. nov., a new rust on *Kalanchoe blossfeldiana* (Crassulaceae). *Mycological Research* 108(7):846-848.
2004. Rossman AY, Aime MC, Farr DF, Castlebury LA, Peterson KR, Leahy R. The coelomycetous genera *Chaetomella* and *Pilidium* represent a newly discovered lineage of inoperculate discomycetes. *Mycological Progress* 3(4):275-290.
2005. Aime MC, Phillips-Mora W. The causal agents of witches' broom and frosty pod rot of cacao (*Theobroma cacao*) form a new lineage of Marasmiaceae. *Mycologia* 97(5):1012-1022.
2005. Aime MC, Vilgalys R, Miller OK. The Crepidotaceae (Basidiomycota, Agaricales): Phylogeny and taxonomy of the genera and revision of the family based on molecular evidence. *American Journal of Botany* 92(1): 74-82.
2005. Deadman ML, Sadi AMA, Jahdhami SA, Aime MC. First report of rust caused by *Puccinia carthami* on safflower in Oman. *Plant Disease* 89:208.
2005. Henkel TW, Meszaros R, Aime MC, Kennedy A. New *Clavulina* species from the Pakaraima Mountains of Guyana. *Mycological Progress* 4(4):343-350.
2005. Hernández JR, Aime MC, Henkel TW. The rust fungi (Uredinales) of Guyana. *Sydowia* 57(2):189-222.
2005. Kapooria RG, Aime MC. First report of the rust fungus *Olivea scitula* on *Vitex doniana* in Zambia. *Plant Disease* 89:431.
2005. Osterbauer N, Trippe A, French K, Butler T, Aime MC, McKemy J, Bruckart WL, Peerbolt T, Kaufman D. First report of *Phragmidium violaceum* infecting Himalaya and evergreen blackberries in North America. Online. *Plant Health Progress* doi:10.1094/PHP-2005-0923-01-BR.
2005. Ripková S, Aime MC, Lizoň P. *Crepidotus crocophyllus* includes *C. nephrodes*. *Mycotaxon* 91:397-403.
2005. Tunalı B, Yildirim A, Aime MC, Hernández J, Berner D. First report of the rust fungus *Coleosporium tussilaginis* on *Tussilago farfara* in Turkey. *Plant Disease* 89:1131.
2006. Aime MC. Toward resolving family-level relationships in rust fungi (Uredinales). *Mycoscience* 47(3):112-122.
2006. Aime MC, Matheny PB, Henk DA, Frieders EM, Nilsson RH, Piepenbring M, McLaughlin DJ, Szabo LJ, Begerow D, Sampaio JP, Bauer R, Weiss M, Oberwinkler F, Hibbett DS. An overview of the higher-level classification of Pucciniomycotina based on combined analyses of nuclear large and small subunit rDNA sequences. *Mycologia* 98(6):896-905.
2006. Aime MC, Miller OK. Proposal to conserve the name *Chroogomphus* against *Brauniellula* (Gomphidiaceae, Agaricales, Basidiomycota). *Taxon* 55(1): 228-229.
2006. Bruckart WL, Eskandari FM, Beckett MC, Bean D, Littlefield J, Pilgeram AL, Sands DC, Aime MC. *Puccinia acroptili* on Russian knapweed in Colorado, Montana, and Wyoming. *Plant Disease* 90:971.
2006. Chlebicki A, Aime MC. New distribution and host records for *Puccinia atrofusca* and other notable *Puccinia* species (Uredinales) from central Asia. *Polish Botanical Journal* 51(1):87-91.
2006. Crozier J, Thomas SE, Aime MC, Evans HC, Holmes KA. Molecular characterization of endophytic morphospecies isolated from stems and pods of *Theobroma cacao*. *Plant Pathology* 55: 783-791
2006. Deadman ML, Sa'di AMA, Maqbali YMA, Jahdhami SA, Patzelt A, Aime MC. First report of the rust *Melampsora euphorbiae* on *Euphorbia heterophylla* in Oman. *Journal of Plant Pathology* 88:121.
2006. Deadman ML, Sa'di AMA, Maqbali YMA, Livingston S, Aime MC. First report of *Puccinia sorghi* on maize in Oman. *Plant Disease* 90:826.
2006. Farr DF, Aime MC, Rossman AY, Palm ME. Species of *Colletotrichum* on *Agavaceae*. *Mycological Research* 110:1395-1408.
2006. Henkel TW, Aime MC, Mehl H, Miller SL. *Cantharellus pleurotoides*, a new and unusual basidiomycete from Guyana. *Mycological Research* 110:1409-1412.
2006. Henkel TW, James TY, Miller SL, Aime MC, Miller OK. The mycorrhizal status of *Pseudotulostoma volvata* (Elaphomycetaceae, Eurotiales, Ascomycota). *Mycorrhiza* 16(3):241-244.

2006. Kong H, Patterson CD, Mitchell RE, Buyer JS, Aime MC, Lydon J. A mutation in an *exbD* gene alters tagetitoxin production by *Pseudomonas syringae* pv. *tagetis*. *Canadian Journal of Microbiology* 52:1027-1035.
2006. Matheny PB, Curtis JM, Hofstetter V, Aime MC, Moncalvo JM, Ge ZW, Yang ZL, Slot JC, Ammirati JF, Baroni TJ, Bougher NL, Hughes KW, Lodge DJ, Kerrigan RW, Seidl MT, Aanen DK, DeNitis M, Daniele GM, Desjardin DE, Kropp BR, Norvell LL, Parker A, Vellinga EC, Vilgalys R, Hibbett DS. Major clades of Agaricales: a multilocus phylogenetic overview. *Mycologia* 98 (6):982-995.
2006. Nieves-Rivera AM, Aime MC. *Montagnea arenaria* (Agaricaceae, Basidiomycota), a new record for Puerto Rico. *Caribbean Journal of Sciences* 42(2):244-246.
2006. Phillips-Mora W, Cawich J, Garnett W, Aime MC. First report of frosty pod rot (moniliasis disease) caused by *Moniliophthora roreri* on cacao in Belize. *Plant Pathology* 55:584. (Doi: 10.1111/j.1365-3059.2006.01378.x)
2006. Phillips-Mora W, Coutiño A, Ortiz CF, López AP, Hernández J, Aime MC. First report of *Moniliophthora roreri* causing frosty pod rot (moniliasis disease) of cocoa in Mexico. *Plant Pathology* 55:584. (Doi: 10.1111/j.1365-3059.2006.01418.x)
2006. Scholler M, Aime MC. On some rust fungi (Uredinales) collected in an *Acacia koa*-*Metrosideros polymorpha* woodland, Mauna Loa Road, Big Island, Hawaii. *Mycoscience* 47:159-165.
2006. Tunalı B, Yildirim A, Aime MC, Hernández JR. First report of rust disease caused by *Uromyces galegae* on *Galega officinalis* in Turkey. *Plant Disease* 90:525.
2007. Aime MC, Ryvarden L, Henkel TW. Studies in Neotropical polypores 22: Additional new and rare species from Guyana. *Synopsis Fungorum* 23: 15-31.
2007. Aime MC, Rossman AY. First report of the rust *Phragmidium violaceum* in California. *Plant Disease* 91:1517.
2007. Deadman ML, Sa'di AA, Maqbali YA, Aime MC. First report of *Puccinia triticina* on wheat in Oman. *Plant Disease* 91:113.
2007. Deadman ML, Maqbali YA, Subhi AA, Yahyai RA, Sa'di AA, Aime MC. First report of rust caused by *Tranzschelia discolor* on peach in Oman. *Plant Disease* 91(5):638.
2007. Hibbett DS, Binder M, Bischoff JF, Blackwell M, Canon PF, Eriksson OE, Huhndorf S, James T, Kirk PM, Lücking R, Lumbsch HT, Lutzoni, F, Matheny PB, McLaughlin DJ, Powell MJ, Redhead S, Schoch CL, Spatafora JW, Stalpers JA, Vilgalys R, Aime MC, Aptroot A, Bauer R, Begerow D, Benny GL, Castlebury LA, Crous PW, Dai YC, Gams W, Geiser DM, Griffith GW, Gueidan C, Hawksworth DL, Hestmark G, Hosaka K, Humber RA, Hyde KD, Ironside JE, Kõljalg U, Kurtzman CP, Larsson KH, Lichtwardt R, Longcore J, Miadlikowska J, Miller A, Moncalvo JM, Mozley-Standridge S, Oberwinkler F, Parmasto E, Reeb V, Rogers JD, Roux C, Ryvarden L, Sampaio JP, Schuessler A, Sugiyama J, Thorn RG, Tibell L, Untereiner WA, Walker C, Wang Z, Weir A, Weiss M, White MM, Winka K, Yao, YJ, Zhang N. A higher-level phylogenetic classification of the Fungi. *Mycological Research* 111:509-547.
2007. Phillips-Mora W, Aime MC, Wilkinson MJ. Biodiversity and biogeography of the cacao (*Theobroma cacao*) pathogen *Moniliophthora roreri* in tropical America. *Plant Pathology* 56:911-922.
2007. Posada, F, Aime MC, Peterson SW, Rehner SA, Vega FE. Inoculation of coffee plants with the fungal entomopathogen *Beauveria bassiana* (Ascomycota: Hypocreales). *Mycological Research* 111:749-758.

## INVITED SCIENTIFIC PRESENTATIONS

- *Purdue University, Department of Botany and Plant Pathology, Invited Seminar, 14 November 2007, West Lafayette, IN: Biology and Systematics of Cacao Pathogens*
- *First Africa Conference on Edible and Medicinal Mushrooms, Plenary Session, 25 October 2006, Kampala, Uganda: Aime, MC and Isikhuemhen, O. From the field to the table: How to identify a good mushroom candidate for cultivation.*
- *University of Benin, Department of Botany, Invited Seminar, 16 October 2006, Benin City, Nigeria: Systematic Mycology*
- *United States Botanic Garden, Systematics Lecture Series, 7 September 2006, Washington, DC Exploring the lost world: In search of new species of fungi in remote rainforests of Guyana (general public--\$8 admission fee).*
- *American Phytopathological Society/Mycological Society of America joint annual meeting, 29 July – 2 August 2006, Quebec City, Canada: New phylogenies: Revelations on cacao pathogens and the diseases they cause*
- *Penn State, Department of Plant Pathology, Invited Seminar, 24 April 2006, College Station, PA: Biology and systematics of New World cacao pathogens*

- *University of Southern Mississippi, Coastal Research Center, Invited Seminar, 2 March 2006, Ocean Springs, MS: What's eating chocolate: Biology and systematics of New World cacao pathogens*
- *Deep Hypha: A Phylogeny for the Kingdom Fungi 5<sup>th</sup> Annual Meeting, 24-26 February 2006, Baton Rouge, LA: An overview of the Urediniomycotina*
- *The Bean Improvement Cooperative 18<sup>th</sup> Biennial Meeting, 31 Oct – 3 Nov 2005, Newark DE: Molecular variability of bean rusts*
- *BARC-USDA-ARS World Cocoa Foundation Partnership Meeting/USDA Research Overview and Technology Transfer of Cacao Research: Current Status and Future Direction meeting, 12 Oct 2005 Beltsville, MD: Systematics of Cacao Pathogens*
- *BARC-USDA-ARS Cacao Endophyte Meeting, 26 Sept 2005 Beltsville, MD: Biology and Systematics of New World cacao pathogens*
- *Mycological Society of America/Mycological Society of Japan joint annual meeting, 31 July – 4 August 2005 Hilo, Hawaii: Molecular systematics of Uredinales*
- *Mycological Society of America/Mycological Society of Japan joint annual meeting, 31 July – 4 August 2005 Hilo, Hawaii: Aime, M.C. & T.W. Henkel. Strategies for bio-inventory: Lessons from Guyana*
- *Mycological Association of Washington, June 7 2005, Bethesda, MD: How to identify mushrooms 101*
- *Humboldt Bay Mycological Society, 20 April 2005, Arcata, CA: The Crepidotaceae: Common wood and litter decomposers*
- *University of New Mexico, Department of Biology, 16 Mar 2005, Las Cruces, NM: Ectomycorrhizal and saprotrophic fungal diversity in western Guyana.*
- *Moniliasis, Regional Breeding & Resistance Workshop, 21-25 Feb 2005, CATIE, Costa Rica: Nomenclature of Frosty Pod Rot Complex: Molecular analysis and impact on breeding.*
- *Association for Tropical Biology and Conservation Annual Meeting, July 12-16, 2004, Miami, FL: M.C. Aime, T. Henkel, and M. Chin. Ectomycorrhizal and saprotrophic fungal diversity in Western Guyana*
- *Southern Idaho Mycological Association, June 19, 2004, McCall, ID: Exploring Guyana: Fungi and Mycophagy in the Pakaraima Mountains*
- *Mycological Association of Washington, March 2, 2004, Glen Echo, MD: Exploring Guyana: fungi and mycophagy in the Pakaraima Mountains*
- *Mycological Association of Washington, Aug. 5, 2003, Chevy Chase, MD: Molecular systematics and the taxonomy of mushrooms*
- *University of Oxford, Department of Plant Sciences, June 2002, Oxford, UK: Exploring Guyana: searching for biodiversity in remote rainforests of the Pakaraima Mountains*
- *8<sup>th</sup> European Conference on Fungal Genetics, Apr. 10, 2002, Pisa, Italy: M.C. Aime, and L.A. Casselton. *hmg-1* encodes an Hmg-domain protein implicated in nuclear migration in *Coprinus cinereus**
- *Osaka Institute for Fermentation, July 23, 1998, Osaka-ken, Japan: Molecular systematics in the Crepidotaceae*
- *Kyoto University Institute for Ecological Research, July 20, 1998, Kyoto-ken, Japan: Fungal molecular systematics*
- *Forest and Forest Products Research Institute, July 16, 1998, Tsukuba, Ibaraki-ken, Japan: Fungal molecular systematics*

## HONORS AND AWARDS

- 2006 Awarded, as part of team, Beltsville Area's Technology Transfer Award for extraordinary assistance to APHIS/PPQ at ports in the U.S. and around the world
- 2001 Awarded Virginia Tech Graduate Teaching Assistant of the Year Award for Excellence
- 2001 Awarded Department of Biology Graduate Teaching Assistant of the Year, for excellence in teaching
- 2000 Awarded Mycological Society of America's Graduate Research Award, for "An examination of phenotypic variance in *Crepidotus*"
- 1999 Awarded Kosztarab Scholarship for Systematics, for graduate research in systematics
- 1998 Awarded U.S. National Science Foundation and Monbusho (Japanese Ministry of Science and Education) Summer Fellowship for Foreign Researchers: Shiga University, Otsu, Japan.

## PROFESSIONAL SERVICE

- 2008-present Mycology Advisory Committee, American Type Culture Collection, Manassas, VA

2007-present Academic Committee, The Association for Tropical Biology and Conservation 2008 Annual Meeting, Paramaribo, Suriname  
2006-present Secretary, Mycological Society of America  
2005-2007 Mycological Society of America, Liaison with Amateur Mycological Clubs Committee  
2004-2006 Mycological Society of America, Student Awards Committee  
2004-2005 Mycological Association of Washington, DC, Education Chair

### **PROFESSIONAL SOCIETY MEMBERSHIPS**

American Phytopathological Society  
Association for Tropical Biology and Conservation  
Mycological Society of America  
Society of Systematic Biologists

### **SIGNIFICANT FIELD RESEARCH AND COLLECTING**

North America: Virginia, North Carolina, Kentucky, West Virginia, Tennessee, Florida, Louisiana, Vermont, New York, Arizona, New Mexico, Idaho, California, Quebec, Ontario  
Neotropics: Guyana, Belize, Ecuador, Costa Rica, Puerto Rico, Barbados  
Europe: France, Great Britain, Romania, Norway, Germany, Croatia  
Asia/Pacific: Japan, Hawaii, Malaysia (Peninsular and Borneo)  
Africa: Nigeria, Uganda