

ANTHONY S. AMEND

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DEPARTMENT OF PLANT AND MICROBIAL BIOLOGY
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PROFESSIONAL STATUS

2008-Present

Post-Doctoral Researcher at Thomas Bruns' Fungal Ecology and Evolution Laboratory, UC Berkeley

- Global fungal collection and coordination
- High-throughput sequencing analysis, databasing and bioinformatics
- Multi-locus phylogenetics and tree-based analyses
- Manuscript and report authorship

EDUCATION

2003-2008

University of Hawai'i at Manoa PhD-Department of Botany

Project: Population Genetics, Successional Dynamics and Conservation of the Prized Edible Mushroom *Tricholoma matsutake* in NW Yunnan, China

1995-1999

Cornell University

BA-College Scholar Program, Mycology Focus BA-Anthropology (*cum laude*)

PROFESSIONAL EXPERIENCE

2007

Research Associate at Matteo Garbelotto's Mycology and Forest Pathology Laboratory, UC Berkeley

- Molecular Barcoding Project of Venice Fungal Herbarium (PCR, Sequencing, Alignments)
- Microsatellite development and analysis of Asian *Tricholoma* spp.

2004-2005

Senior Herbarium Assistant with Dr. Jan Salick, Missouri Botanical Garden

- Extensive field work and collection in China and Tibet
- Identification and accessioning of material
- Multivariate and GIS analysis

1999-2000

Ethnobotanist for the NGO EcoLogic Development Fund, San Jose Petén, Guatemala

- Extensive field work and collection
- Curation of a small reference herbarium

- Natural product capacity building

1997-1999

Technician at the USDA-ARS Collection of Entomopathogenic Fungal Cultures, Ithaca NY

- Culture curation, databasing and loan coordination

1995

Intern at the Field Museum of Natural History “Survey of Northern Illinois and Indiana Fungi” Project, Chicago IL

- Mushroom identification
- Preparation of specimens and labels for herbarium accessioning

TEACHING EXPERIENCE

2003-2007

University of Hawai'i at Manoa Departments of Botany and Biology

Teaching Assistant

- Introductory Ethnobotany
- Biology 101
- Plant Evolutionary Diversity
- Mycology

SELECTED AWARDS AND GRANTS

2008	University of Hawaii Graduate Student Association Award
2007	ARCS Fellowship in Conservation Biology
2007	Genetics Society of America Scholarship
2006	Richard Evans Schultes Award, Society for Economic Botany
2005 & 2006	Arts and Sciences Alumni Association Award
2006	Dai Ho Chun Research Award
2005	Ecology Evolution and Conservation Biology Research Grant
2005	BP Conservation Programme award
2003	Beatrice Krauss Research Grant

PUBLICATIONS

Amend, A., K. A. Seifert, R. Samson, T. D. Bruns (2009) Deep sequencing reveals diverse and geographically patterned indoor fungal assemblages.

Submitted.

R. H. Nilsson, V. Veldre, M. Hartmann, M. Unterseher, **A.**

Amend, J. Bergsten, E. Kristiansson, M. Ryberg, A. Jumpponen, Kessy Abarenkov (2009) An open source software package for rapid, automated extraction of *ITS1* and *ITS2* from fungal *ITS* sequences for use in high-throughput community assays and molecular ecology. *Applied and Environmental Microbiology*. **In Review.**

Amend, A., Z. Fang, W. McClatchey (2009) Local Perceptions of Matsutake Mushroom Management, in NW Yunnan China. *Biological Conservation*. doi:10.1016/j.biocon.2009.09.022

Amend, A., S. Keeley, M. Garbelotto (2009) Forest Age Correlates with Fine-Scale Spatial Structure of Matsutake Mycorrhizas. *Mycological Research* 113(5) 541-550

Amend, A., M. Garbelotto, Z. Fang, S. Keeley (2009) Isolation by Landscape in Populations of the Prized Edible Mushroom *Tricholoma matsutake*. *Conservation Genetics*. (DOI 10.1007/s10592-009-9894-0)

Salick, J., **A. Amend**, D. Anderson, B. Gunn, Z. Fang (2007) Tibetan Sacred Sites Conserve Old Growth Forests and Cover in the Eastern Himalayas. *Biodiversity and Conservation*, 16(3) 693-706.

Salick, J., A. Byg, **A. Amend**, B. Gunn, H. Schmidt (2006) Tibetan Medicine Plurality. *Economic Botany* 60(3) 227-253

Salick, J., Yang Y. P., **A. Amend** (2005) Elevation, Roads and Change in Land-use Strategies among Tibetan Communities in Northwest Yunnan, China. *Economic Botany*, 59(4) 312-325

SELECTED PRESENTATIONS

* **Amend, A.**, K. A. Seifert, R. Samson, T. D. Bruns (2009) Deep Sequencing Reveals diverse and geographically patterned indoor fungal assemblages. UNITE/NordForsk Network Meeting, Helsinki Finland.

Amend, A., K. A. Seifert, R. Samson, T. D. Bruns (2009) Spores indoors: a pyrosequencing look at what fungi the cat dragged in. Joint Mycological Society/Botanical Society of America Meeting, Snowbird, UT.

Amend, A., S. Keeley, M. Garbelotto, Z. Fang (2008) Ain't no mountain High Enough? Topography Affects Population Structure in a Prized Edible Mushroom *Tricholoma matsutake*. Botanical Society of America, Vancouver, Canada

Amend, A., S. Keeley, M. Garbelotto, Z. Fang (2008) Gene flow and dispersal dynamics of *Tricholoma matsutake*, in NW Yunnan. Mycological Society of America, State College, PA

* **Amend, A.** (2007) Population Genetics and Management Strategies for *Tricholoma matsutake*. Identifying Fungal Populations from Root Tips to Sequence. University of Copenhagen, Copenhagen, Denmark.

Amend, A. (2006) Population Genetics, Gene Flow and Conservation of *Tricholoma matsutake* using Microsatellite Markers and Traditional Ecological Markers. International Conference of Mycorrhiza, Granada, Spain.

Amend, A. (2006) Population Genetics, Gene Flow and Conservation of

Tricholoma matsutake using Microsatellite Markers and Traditional Ecological Markers. Society for Economic Botany, Chiang Mae, Thailand.

* **Amend, A.** (2005) Boddhisattvas and Biodiversity: Conservation of a Sacred Tibetan Mountain. University of Hawaii Botany Department Seminar

* **Amend, A.** (2005) *Tricholoma matsutake* conservation and optimal harvest strategies. 2nd Annual Matsutake Festival, Zhongdian, China

Amend, A., D. Anderson, J. Salick, and B. Moseley, (2004) The Role of Tibetan Sacred Sites in Biodiversity Conservation in Northwest Yunnan, China 9th International Congress of Ethnobiology, University of Kent, Canterbury, UK. (Winner of best session poster award)

* **Invited Speaker**

SERVICE AND SYNERGISTIC ACTIVITIES

Peer Review for *Microbiology, Biological Conservation, Herbalgram*

Ecology Evolution and Conservation Biology GK-12 education Volunteer 2003-2007

Member Mycological Society of America

LANGUAGES SPOKEN

Fluent spoken and written Spanish

Conversational Nepali

Conversational Mandarin