Lisa M. Rosenthal

PhD candidate
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Education

University of California, Davis, PhD candidate 2016–current

- NSF Graduate Fellow
- Graduate Group in Ecology, Department of Plant Pathology
- Advisor: Dave Rizzo
- Dissertation focuses on identifying diversity-associated mechanisms of disease risk

University of California, Berkeley, B.S. Molecular Environmental Biology 2009–2013

- High Distinction and Honors
- Honors advisor: Tom Bruns

Publications

Petit E, Silver C, Cornille A, Gladieux P, **Rosenthal L**, Bruns E, Yee S, Antonovics J, Giraud T, Hood M. 2017. Co-occurrence and hybridization of anther-smut pathogens specialized on Dianthus hosts. *Molecular Ecology* 26:1877–1890.

Rosenthal LM, Branco S, Chung JA, Glassman SI, Liao HL, Peay KG, Smith DP, Talbot JM, Taylor JW, Vellinga EC, Vilgalys R, Bruns TD. 2017. Survey of corticioid fungi in North American pinaceous forests reveals hyperdiversity, underpopulated sequence databases, and species that are potentially ectomycorrhizal. *Mycologia* 109:115–127.

Feurtey A, Gladieux P, Snirc A, Hood M, Cornille A, **Rosenthal L**, Giraud, T. 2016. Strong phylogeographic costructure between the anther fungus and its white campion host. *New Phytologist* 212:668–679.

Waring BG, Gei MG, **Rosenthal LM**, Powers JS. 2016. Plant-mycorrhizal interactions along a gradient of soil fertility in tropical dry forest. *Journal of tropical ecology* 32:314–323.

Grants, Fellowships, & Awards

Graduate Research Fellowship, $136,000, *National Science Foundation* 2016, 2019, 2020
Graduate Group in Ecology Fellowship, $46,800, *UC Davis* 2017, 2018
Graduate Student Scholarship, $1,000, *Northern California Botanists* 2018
Miller Plant Science Award, $2,000, *UC Davis* 2018
Jastro Graduate Research Award, $1,400, *UC Davis* 2017
Molecular Environmental Biology Major Citation Award, $200, *UC Berkeley* 2014
Research Experience for Undergraduates Award, $5,000, *National Science Foundation* 2013

Presentations and Posters

Rosenthal LM, Fajardo SN, Rizzo DM. 2020. "Sporulation potential of *Phytophthora ramorum* differs among common California plant species". *UC Davis Ecology Graduate Symposium.*

Poster.

Rosenthal LM, Fajardo SN, Rizzo DM. 2019. "Sporulation potential of *Phytophthora ramorum* differs among common California plant species". *CA Forest Pest Council Meeting*. Poster.

Teaching and Mentoring Experience

UC Davis teaching assistant

Crisis in the Environment, SAS 9 — Spring 2019
Introductory Mycology, PLP 148 — Fall 2017

K-12 Education

Girls Outdoor and Leadership mentor, UC Davis — 2018–current
Teaching specialist, Lawrence Hall of Science, Berkeley, CA — Sep 2011–May 2012

Workshops and Seminars

Data Manipulation in R, UC Davis — Feb 2020
Analysis Using Bayesian Poisson GLMMs, UC Davis — Feb 2020
R Carpentries in Ecology instructor, UC Davis — Dec 2019
Community Disease Ecology seminar co-lead, UC Davis — Apr–Jun 2018
Section leader for NSF GRFP grant writing applicants, UC Davis — Fall 2016
Mushroom Identification Workshop instructor, Hitchcock Env. Center, Amherst, MA — Sep 2015

Service and Outreach

Ecology Graduate Student Symposium keynote speaker liason, UC Davis — 2020
Intercampus shuttle advocate leader, UC Davis — Fall 2019
Graduate Group in Ecology Awards committee member, UC Davis — 2019
Girls Outdoor and Leadership curriculum member, UC Davis — 2018, 2019
Eco/evo seminar committee member, UC Davis — 2017–current

Past Research Appointments

Laboratory research assistant, Amherst College — Mar 2015–May 2016
Amherst, MA

- Supervisor: Prof. Michael Hood
- Assisted projects addressing the evolutionary ecology of the anther smut fungal pathogen system using molecular, culture-based, greenhouse and field approaches

Field research assistant, Estación Horizontes — Jun–Oct 2014
Liberia, Costa Rica

- Supervisor: Prof. Jennifer Powers, University of Minnesota
- Supported field projects involving forest restoration, ecophysiology, decomposition, soil respiration and precipitation effects on plants

Honors student, University of California, Berkeley — Jun 2012–May 2013 & Jan–May 2014
Berkeley, CA

- Supervisor: Prof. Tom Bruns

- Investigated distribution and diversity of corticioid fungi on continental scale and published results

REU Fellow, Mountain Lake Biological Station May–Aug 2013
Pembroke, VA

- Supervisor: Prof. Henry Wilbur, University of Virginia
- Studied population dynamics of diseased American chestnut stands with different logging treatments

Technical skills

Culture-based methods, microscopy, enzyme assays, DNA extraction, PCR, gel electrophoresis
R, ArcGIS, QGIS, QIIME
Taxonomic expertise in California trees and shrubs, California mushrooms, diagnosis of common forest pathogens
Wilderness First Responder and CPR certified