

## **Dorota L Porazinska**

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### **EXPERTISE**

Biodiversity, Microbial Ecology, Metagenomics, Molecular Diagnostics, Nematology, Plant-Soil Interactions, Soil Ecology, Terrestrial and Extreme Environments

### **EDUCATION**

1994 – 1998 PhD, University of Florida, Department of Entomology and Nematology, Gainesville, FL  
1992 – 1994 MS, University of Georgia, Institute of Ecology, Athens, GA  
1987 – 1991 BS/MS, University of Nicolaus Copernicus, Biology and Earth Sciences, Torun, Poland

### **APPOINTMENTS**

- Assistant Professor, Department of Entomology and Nematology, University of Florida, Gainesville, FL, 2018 – present. Soil microbiomes: biodiversity and function.
- Research Associate, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO, 2015 – 2018. Microbial community assembly in extreme environments of Antarctica and high alpine.
- Research Associate, BioFrontiers, University of Colorado, Boulder, CO, 2013 – 2015. Soil communities.
- Research Scientist, Fort Lauderdale Research and Education Center, University of Florida, Fort Lauderdale, FL, 2002 – 2012. Nematode biodiversity and metagenomic tools development.
- Distinguished Visiting Scientist, CSRIO, Canberra, Australia, 2011 – 12. Metagenomic soil monitoring for biosecurity.
- Research Scientist, Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, CO, 1998 – 2002. Relationships between soil biodiversity and ecosystem function.
- Research Assistant, Department of Entomology and Nematology, University of Florida, Gainesville, FL, 1994 – 1998. Nematode community assembly.
- Research Assistant, Institute of Ecology, University of Georgia, Athens, GA, 1992 – 1994. Nematode community assembly.

### **AWARDS/HONORS**

- Science Ambassador, Science Discovery, University of Colorado, 2015
- Distinguished Visiting Scientist, CSIRO, Canberra, Australia, 2012
- STAMPS Fellowship, Marine Biological Laboratory, Woods Hole, MA, 2011
- Recipient, New Investigators, Office of Polar Programs, NSF, Washington, DC, 2001.
- Recipient, The Alec Courtelis Award, Best International Student, University of Florida, 1997

### **FUNDING**

- Collaborative research: Role of nutrient limitation and viral interactions on Antarctic microbial community assembly: A cryoconite microcosm study. NSF OPP, 2022, \$98,926
- Role of host identity, phylogeny, and feeding traits on nematode gut microbiome assembly. IFAS Seed Grant, 2022, \$49,952
- Virtual tours of nematode orders. UF CALS/ENY, 2021, \$12,850
- Mitochondrial metagenomics (mtMG) as a critical step towards accurate and effective diagnostics of plant-parasitic nematode communities. USDA NIFA, 2020, \$466,000
- Microscope for the high throughput acquisition of ultra-high-definition nematode images. UF IFAS, 2020, \$71,000
- Instructional improvement through building physical and digital nematode slide collections. UF CALS, 2019, \$7,500
- Development of Nematode Systematics and Molecular Phylogeny course for online education UF CALS, 2019, \$14,500
- Improving nematode diagnostics for better understanding of their ecology and management. USDA-Hatch, 2019

- Ecometagenomic approaches to soil monitoring and biosecurity. CSIRO, Australia. 2013, \$30,000
- Adaptation in Life Sciences: Insect/nematode molecular genomics. UF, 2009, \$45,000
- Soil nematodes as an integrated and rapid tool for environmental assessment and monitoring. USDA, 2008, \$100,000
- *Melaleuca quinquenervia* – a model system for elucidating belowground mechanisms of plant invasions. USDA, 2007, \$130,000

### PROFESSIONAL ACTIVITIES (selected)

- Editor, Journal of Nematology, 2022 – present.
- Chair, ENY Seminar Series, 2018 – 2021.
- Graduate Faculty to the Department of Interdisciplinary Ecology, 2018 – present.
- Co-organizer, workshops and symposia: “DNA barcoding of nematodes”, ICN, France, 2022; EukHits RCN, 2019, CA; GSBS/EcoFinders “The soil biodiversity curation project”, France 2014; “Accelerating ecology and biodiversity research via ecometagenomics, species, communities, and eDNA”, BES/FES, France 2014; “Assessing diversity of microbiota through ultra-sequencing: approaches, advantages, and pitfalls”, SES/SON, VT, 2009.
- Board Member, EukHITs Research Coordination Network, 2013 – present.
- Contributor, co-organizer: Catalysis meeting: High-throughput biodiversity research using eukaryotic metagenetics, NESCent, NC, 2011.
- Member, Organizing Committee for the National Meeting of SON, FL, 2005.
- Vice President, Ecology Committee of the SON, 2001 – 2007.
- Member, Executive Board of the SON, 2003 – 2005.
- Reviewer: Biology and Fertility of Soils, Journal of Nematology, Molecular Ecology, Molecular Ecology Resources, Phytopathology, Soil and Plant, Soil Biology and Biochemistry, NSF

### PUBLICATIONS/PRESENTATIONS

- 23 refereed journal articles in the first 3 years of appointment (64 in total), [Google Scholar](#), h-index 30  
Selected 5:

Gattoni K, A Borgmeier, E Gendron, JP McQueen, P Mullin, K Powers, TO Powers, **DL Porazinska**. 2022. Context dependent role of abiotic and biotic factors structuring. Molecular Ecology. <https://doi.org/10.1111/mec.16541>

**Porazinska DL**, T Seastedt, E Gendron, SK Schmidt. 2022. Invasive annual cheatgrass enhances the abundance of native microbial and microinvertebrate eukaryotes but reduces invasive earthworms. Plant and Soil. <https://doi.org/10.1007/s11104-022-05312-9>

Schmidt SK, BJ Johnson, AJ Solon, P Sommers, JL Darcy, K Vincent, L Vimercati, AG Fountain, **DL Porazinska**. 2022. Microbial biogeochemistry and phosphorus limitation in cryoconite holes on glaciers across the Taylor Valley, McMurdo Dry Valleys, Antarctica. Biogeochemistry. <https://doi.org/10.1007/s10533-022-00900-4>

**Porazinska DL**, CP Bueno de Mesquita, EC Farrer, MJ Spasojevic, KN Suding, SK Schmidt. 2021. Nematode community diversity and function across an alpine landscape undergoing plant colonization of previously unvegetated soils. Soil Biology and Biochemistry, 161, 108380. <https://doi.org/10.1016/j.soilbio.2021.108380>

Hu W, P Sommers, JL Darcy, SK Schmidt, **DL Porazinska**. 2021. Multiple-trophic patterns of primary succession following retreat of a high-elevation glacier. Ecosphere. 12(3), e03400. <https://doi.org/10.1002/ecs2.3400>

- 3 book chapters
- 1 monograph
- 16 abstracts in the first 3 years of appointment (65 in total)
- 1 national and 2 international invited keynote speaker presentations at scientific meetings
- Over 70 national talks and invited departmental seminars

### TEACHING

Over 15 years of experience designing curriculum, developing new teaching tools, lecturing, mentoring, organizing and leading short courses and workshops for students across diverse backgrounds.