

Personal Information

Dorota L. Porazinska Campbell
Courtesy Assistant Professor
Fort Lauderdale Research and Education Center
University of Florida

Educational Credentials

1994-1998 Ph.D. Department of Entomology and Nematology, University of Florida, Gainesville, FL.
1992-1994 M.S. Institute of Ecology, University of Georgia, Athens, GA.
1987-1991 M.S. Biology and Earth Sciences, University of Nicolaus Copernicus, Torun, Poland.

Employment History

2002- Courtesy Assistant Professor, Fort Lauderdale Research and Education Center, University of Florida, Fort Lauderdale, FL.
2006-2007 Adjunct Assistant Professor, Nova Southeastern University, Fort Lauderdale, FL.
2004-2006 Science Teacher, Chaminade-Madonna College Preparatory, Hollywood, FL.
1998-2002 Scientist, Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, CO.
1994-1998 Graduate Research and Teaching Assistant, Entomology and Nematology Department, University of Florida, Gainesville, FL.
1992-1994 Graduate Research Assistant, Institute of Ecology, University of Georgia, Athens, GA.

Scholarly Activity

Teaching

Principles of Nematology (via WebCT, Polycom, Elluminate), University of Florida, FLREC, Fort Lauderdale, FL. 2002 – Present.

Biology 1500, Nova Southeastern University, Fort Lauderdale, FL. 2006.

Honors Biology, Biology I, Biology II (SmartBoard), Chaminade-Madonna College Preparatory, Hollywood, FL. 2004 – 2006.

Agricultural Ecology, Principles of Nematology, University of Florida, Gainesville, FL. 1995 – 1997.

Refereed Articles

Porazinska DL, Giblin-Davis RM, Powers TO, Sung W, and Thomas WK. Linking Operational Clustered Taxonomical Units (OCTU) from Parallel Ultra Sequencing (PUS) to Nematode Species. Molecular Ecology, in preparation.

Porazinska DL, Giblin-Davis RM, Powers TO, Farmerie W, Kanzaki N, Morris K, Sung W, and Thomas WK. Evaluating High-Throughput Sequencing as a method for Metagenomic Analysis of Nematode Diversity. *Molecular Ecology Resources*: 2009

Porazinska DL, PD Pratt, and RM Giblin-Davis. 2007. Consequences of *Melaleuca quinquenervia* invasion on soil nematodes in the Florida Everglades. *Journal of Nematology* 39:305-312.

Duncan LW, JH Graham, J Zellers, D. Bright, DC Dunn, FE El-Borai, and DL Porazinska. Food web responses to augmenting the entomopathogenic nematodes in bare and animal manure-mulched soil. *Journal of Nematology* 39:176-189.

Foreman C, B Sattler, J Mikucki, DL Porazinska, and JC Priscu. 2007. Metabolic activity and diversity of cryoconites in the Taylor Valley, Antarctica. *Journal of Geophysical Research*: 112, G04S32, doi:10.1029/2006JG000358.

Duncan LW, JH Graham, J Zellers, D Bright, DC Dunn, FE El-Borai, and DL Porazinska. 2007. Food web responses to augmenting the entomopathogenic nematodes in bare and animal manure-mulched soil. *Journal of Nematology* 39:176-189.

Crow WT, DL Porazinska, RM Giblin-Davis, and PS Grewal. 2006. Entomopathogenic nematodes are not an alternative to fenamiphos for management of plant-parasitic nematodes. *Journal of Nematology* 38:52-58.

Nkem JN, DH Wall, RA Virginia, JE Barret, EJ Bross, DL Porazinska, and BJ Adams. 2006. Wind dispersal of soil invertebrates in the McMurdo Dry Valleys, Antarctica. *Polar Biology* 29:346-352.

Porazinska DL, AG Fountain, TH Nysten, M Tranter, RA Virginia, and DH Wall. 2004. The biodiversity and biogeochemistry of cryoconite holes from McMurdo Dry Valley Glaciers, Antarctica. *Arctic, Antarctic, and Alpine Research* 36:84-91.

Porazinska DL, RD Bardgett, MB Blaauw, HW Hunt, AN Parsons, TR Seastedt, and DH Wall. 2003. Relationships at the aboveground-belowground interface: plants, soil biota, and soil processes. *Ecological Monographs* 73:377-395.

Moorhead DL, JE Barrett, RA Virginia, DH Wall, and DL Porazinska. 2003. Organic matter and soil biota of upland wetlands in Taylor Valley, Antarctica. *Polar Biology* 26:567-576.

Gooseff MN, JE Barrett, P. Doran, AG Fountain, WB Lyons, DM McKnight, AN Parsons, DL Porazinska, RA Virginia, DH Wall. 2003. Snow pack coverage and influence on polar desert soils in the Dry Valleys, Antarctica. *Arctic, Antarctic, and Alpine Research* 35:92-100.

Porazinska DL, DH Wall, and RA Virginia. 2002. Invertebrates in ornithogenic soils at Ross Island, Antarctica. *Polar Biology* 25:569-574.

Porazinska DL, DH Wall, and RA Virginia. 2002. Population age structure of nematodes in the Antarctic Dry Valleys: perspectives on time, space, and habitat suitability. *Arctic, Antarctic, and Alpine Research* 34:159-168.

McSorley R and DL Porazinska. 2001. Elements of sustainable agriculture. *Nematropica* 31:1-9.

Porazinska DL and DH Wall. 2000. Soil conservation. In: S Levin, G Daily, RK Colwell, J Lubchenco, HA Mooney, ED Schulze, and D Tilman (eds). *Encyclopedia of Biodiversity*. Vol. 5:315-326. Academic Press, San Diego, CA.

Porazinska DL, LW Duncan, R McSorley, and JH Graham. 1999. Nematode communities as indicators of status and processes of a soil ecosystem influenced by agricultural management practices. *Applied Soil Ecology* 13:69-86.

Inserra RN, LW Duncan, D Dunn, DT Kaplan, and DL Porazinska. 1998. *Pratylenchus pseudocoffeae* from Florida and its relationship with *P. gutierrezii* and *P. coffeae*. *Nematologica* 44:683-712.

Porazinska DL, R McSorley, LW Duncan, R Gallaher, JW Wheaton, and LR Parsons. 1998. Relationship between soil chemical status, soil nematode community, and sustainability indices. *Nematropica* 28:249-262.

Porazinska DL, R McSorley, LW Duncan, JH Graham, JW Wheaton, and LR Parsons. 1998. Nematode community composition under various irrigation schemes in the citrus soil ecosystem. *Journal of Nematology* 30:170-178.

Porazinska DL and DC Coleman. 1995. Ecology of nematodes under influence of *Cucurbita* spp. and different fertilizer types. *Journal of Nematology* 27:617-623.

Other Publications

Porazinska DL. 1998. Nematode communities as indicators of agricultural management practices. Dissertation. University of Florida, Gainesville, FL.

Porazinska DL. 1994. Influence of *Cucurbita* spp. on soil and plant-parasitic nematodes. Thesis. University of Georgia, Athens, GA.

Porazinska DL. 1991. Sociobiology of wasp *Dolichovespula saxonica* in the area of Las Piwnicki near Torun, Poland. Thesis. University of Nicolaus Copernicus, Torun, Poland.

Seminars and Conference Talks

Porazinska DL. 2009. On the path to Nematode-Earth via pyrosequencing. Department of Plant Pathology, University of Nebraska, Lincoln, NE.

Porazinska DL. 2009. On the path to Nematode-Earth via pyrosequencing. Department of Plant Pathology, University of Florida, Gainesville, FL.

Porazinska DL, RM Giblin-Davis, L. Faller, W Farmerrie, N Kanzaki, K Morris, TO Powers, A. Tucker, W Sung, and WK Thomas. 2008. High-throughput sequencing for analysis of nematode diversity. Ecological Genomics Symposium, Kansas City, MI.

Porazinska DL, RM Giblin-Davis, TO Powers, W Farmerrie, L. Faller, N Kanzaki, K Morris, W Sung, and WK Thomas. 2008. High-throughput sequencing for analysis of nematode diversity. Ecological Society of America Meeting, Milwaukee, WI.

Porazinska DL, RM Giblin-Davis, TO Powers, W Farmerrie, N Kanzaki, K Morris, W Sung, and WK Thomas. 2008. Pyrosequencing for analysis of nematode diversity. International Congress of Nematologists, Melbourne, Australia.

Porazinska DL. 2008. Nematode diversity in the era of metagenomics. Department of Entomology and Nematology, University of Florida, Gainesville, FL.

Porazinska DL. 2007. To worm ecology via morphology and barcodes. Fort Lauderdale Research and Education Center, University of Florida, Fort Lauderdale, FL.

Porazinska DL. 2007. Ecology through an eye of a nematode. Invited seminar. Tropical Research and Education Center, University of Florida, Homestead, FL.

Porazinska DL, RM Giblin-Davis, TO Powers, N Kanzaki, W Ye, K Morris, and WK Thomas. 2007. 454 pyrosequencing for metagenomic analysis of nematode diversity. The Joint Meeting of the American Phytopathological Society and Society of Nematologists, Sand Diego, CA.

Porazinska DL, PD Pratt, RM Giblin-Davis. 2007. Consequences of *Melaleuca quinquenervia* invasion of the Florida Everglades: Notes from the underground. The Joint Meeting of the American Phytopathological Society and Society of Nematologists, Sand Diego, CA.

Porazinska DL. 2007. A postcard from the bottom of the Earth. Invited seminar. Fort Lauderdale Research and Education Center, Fort Lauderdale, FL.

Porazinska DL, PD Pratt, RM Giblin-Davis. 2004. Plant-soil biota feedbacks as a mechanism of *Melaleuca quinquenervia* invasion in the Florida Everglades. Ecological Society of America, Portland, OR.

Porazinska DL, PD Pratt, RM Giblin-Davis. 2004. Plant-soil biota feedbacks as a mechanism of *Melaleuca quinquenervia* invasion in the Florida Everglades. Society of Nematologists, Estes Park, CO.

Porazinska DL, AG Fountain, TH Nysten, M Tranter, RA Virginia, and DH Wall. 2003. The biodiversity and biogeochemistry of cryoconite holes from Antarctic glaciers. Society of Nematologists, Ithaca, NY.

Porazinska DL, ME Elliott, RM Giblin-Davis, and PD Pratt. 2003. Conceptualizing *Melaleuca quinquenervia* invasion: a feedback system between the plant and its soil

biota. The Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystems, Palm Harbor, FL.

Porazinska DL. On a southbound search for nematodes. 2003. Invited Seminar. Fort Lauderdale Research and Education Center. University of Florida, Fort Lauderdale, FL.

Porazinska DL. Are Antarctic glaciers alive? 2003. Invited Seminar. Department of Entomology and Nematology. University of Florida. Gainesville, FL.

Porazinska DL, J Six, and DH Wall. 2002. Plant diversity and the soil environment. Ecological Society of America, Tuscon, AZ.

Porazinska DL. 2002. Tales from the underground. Invited Seminar. Department of Biology, University of Arkansas, Little Rock, AR.

Porazinska DL, AG Fountain, D Mueller, TH Nysten, RA Virginia, and DH Wall. 2001. Invertebrates in frozen systems: the cryoconite holes of the Antarctic Dry Valleys. Ecological Society of America. Madison, WI.

Porazinska DL, J Six, and DH Wall. 2001. The effect of plant diversity on belowground fauna and soil processes. Soil Ecology Society. Callaway Gardens Pine Mountain, GA.

Porazinska DL, DH Wall, and RA Virginia. 2000. How stable are nematode populations in the Antarctic Dry Valley soil ecosystem? Ecological Society of America. Snowbird, UT.

Porazinska DL. 2000. Methods for studying soil nematodes. Long Term Ecological Research All Scientists Meeting, Snowbird, UT.

Porazinska DL, AN Parsons, HW Hunt, TR Seastedt, and DH Wall. 2000. A relationship between plant species diversity, soil nematode diversity, and ecosystem processes. Society of Nematologists, Quebec, Canada.

Porazinska DL. 2000. Soil nematodes as a window to the world. Invited Seminar. Department of Nematology, University of California, Riverside, CA.

Porazinska DL, LW Duncan, and R McSorley. 1988. Nematode community dynamics in conventional vs. reduced input agricultural systems in a mature Florida citrus orchard. Society of Nematologists, St. Louis, MO.

Porazinska DL, R McSorley, and LW Duncan. 1988. Nematode communities can be used as indicators of sustainable agricultural management practices. Society of Nematologists, St. Louis, MO.

Porazinska DL, R McSorley, and LW Duncan. 1998. Response of nematode communities to agricultural practices. Invited Seminar, Entomology and Nematology Department, University of Florida, Gainesville, FL.

Porazinska DL, R McSorley, LW Duncan, and JH Graham. 1997. Composition of a nematode community under various irrigation schemes in a citrus soil ecosystem. Society of Nematologists, Tucson, AZ.

Porazinska DL, R McSorley, and LW Duncan. 1997. Nematode community response to several irrigation regimes in the citrus soil ecosystem. 1997. Graduate Student Forum, University of Florida, Gainesville, FL.

Porazinska DL, R McSorley, and LW Duncan. 1997. Use of soil nematodes as ecological indicators. 1997. Invited Seminar, Entomology and Nematology Department, University of Florida, Gainesville, FL.

Porazinska DL. Nematodes as ecological indicators. 1996. Invited Seminar, Department of Zoology, University of Florida, Gainesville, FL.

Porazinska DL, R McSorley, and LW Duncan. 1996. Nematode community structure in the citrus soil ecosystem. Graduate Student Forum, University of Florida, Gainesville, FL.

Porazinska DL, R McSorley, and LW Duncan. 1995. Nematode community structure in the citrus soil ecosystem. Society of Nematologists, Little Rock, AR.

Porazinska DL. Effects of *Cucurbita* spp. on soil and plant parasitic nematodes. Nematology seminar series. 1995. Invited Seminar, University of Florida, Gainesville, FL.

Porazinska DL, DC Coleman, CR Carroll, and S Andrews. 1994. Influence of fertilizers and root exudates of *Cucurbita* spp. on a nematode community. Ecological Society of America, Knoxville, TN.

Porazinska DL and DC Coleman. 1994. Plant-animal interactions in the belowground system. Entomological Society of America, Baton Rouge, LA.

Proposals

Melaleuca quinquenervia – a model system for elucidating belowground mechanisms of plant invasions. USDA: 120,000

Soil nematodes as an integrated and rapid tool for environmental assessment and monitoring. USDA: \$79,000.

Faculty/Teaching Development Activities

Conferences Attended

- 2008 Ecological Society of America, Milwaukee, WI.
- 2007 The Joint Meeting of the American Phytopathological Society and Society of Nematologists, Sand Diego, CA.
- 2005 Annual Meeting of the Society of Nematologists, Fort Lauderdale, FL.
- 2004 Annual Meeting of the Ecological Society of America, Portland, OR.
- 2004 Annual Meeting of the Society of Nematologists, Estes Park, CO.

- 2003 Annual Meeting of the Society of Nematologists, Ithaca, NY.
- 2003 The Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystems, Palm Harbor, FL.
- 2002 Annual Meeting of the Ecological Society of America, Tuscon, AZ.
- 2001 Annual Meeting of the Ecological Society of America. Madison, WI.
- 2001 Conference of the Soil Ecology Society. Callaway Gardens Pine Mountain, GA.
- 2000 Annual Meeting of the Ecological Society of America. Snowbird, UT.
- 2000 Long Term Ecological Research All Scientists Meeting, Snowbird, UT.
- 2000 Annual Meeting of the Society of Nematologists, Quebec, Canada.
- 1999 Conference of the Soil Ecology Society. Chicago, IL.
- 1998 Annual Meeting of the Society of Nematologists, St. Louis, MO.
- 1997 Annual Meeting of the Society of Nematologists, Tuscon, AZ.
- 1995 Annual Meeting of the Society of Nematologists, Little Rock, AR.
- 1994 Annual Meeting of the Ecological Society of America. Knoxville, TN.
- 1993 Annual Meeting of the Entomological Society of America, Baton Rouge, LA.

Teaching/Extracurricular Development

- 2008 Grants Writing Workshop, University of Florida, Gainesville, FL
- 2007 Elluminate Training Workshop, University of Florida at FLREC, FL
- 2004 SamrtBoard Series, CMCP in Hollywood, FL.
- 2002 WebCT Training Workshop, University of Florida in Gainesville, FL
- 2002 Laboratory in Population Genetics course, Colorado State University, CO
- 1998 Insect Molecular Genetics course, University of Florida, FL

Public Service/University Service/Consulting

Referee Service

Biotropica, Ecosystems, Journal of Nematology, Soil and Plant, Soil Biology and Biochemistry, National Science Foundation

Service to Profession

- *Member, Organizing Committee for the National Meeting of the Society of Nematologists, Fort Lauderdale, FL, 2005.
- *Vice President, Ecology Committee of the Society of Nematologists. 2001 – 2007.
- *Member, Executive Board of the Society of Nematologists. 2003 – 2005.
- *Organizer, Symposium: Linking aboveground and belowground interactions: emerging perspectives on the feedbacks between plant and soil communities. Ecological Society of America, Tucson, AZ. 2002.
- *Member, Administrative Professional Council, Colorado State University, Fort Collins, CO. 2001 – 2002.
- *Invited Participant, NSF workshop for New Investigators to Office of Polar Programs. Washington, DC. 2001.
- *Chairman, Graduate Student Forum at the University of Florida, Gainesville, FL. 1997.

Consulting

Analysis of nematode diversity in soil foodwebs in citrus orchards in Central Florida, 2003-2005

Professional Societies and Other Relevant Information

Professional Membership

Ecological Society of America

Soil Ecology Society

Society of Nematologists

International Travel

2007 Science expedition investigating nematode diversity in tropical ecosystems, Costa Rica, La Selva Biological Station.

1998-2006 Science expeditions investigating role of global change scenarios on soil microorganisms, Antarctica.