

CURRICULUM VITAE

NATALIE P. GOLDBERG

Extension Plant Sciences Department Head
Distinguished Achievement Professor and Extension Specialist
New Mexico State University - Cooperative Extension Service
Box 30003, MSC 3AE
Las Cruces, NM 88003
Office (575) 646-1621; FAX (575) 646-8085
Email: ngoldber@nmsu.edu

EDUCATION

Ph.D., Plant Pathology (Minor in Molecular and Cellular Biology), University of Arizona, 1990.
M.S., Plant Pathology, University of Arizona, 1987.
B.S., Ornamental Horticulture (Minor in Plant Pathology), Cal Poly Pomona, 1983.

EXPERIENCE

Distinguished Achievement Professor – New Mexico State University (1/1/2013 – present)
Department Head and Professor – New Mexico State University (6/1/07-present)
Professor, Extension Plant Pathologist - New Mexico State University (2004-present)
Associate Professor, Extension Plant Pathologist – New Mexico State University (2000-2004)
Assistant Professor, Extension Plant Pathologist – New Mexico State University (1993-2000)
Post-Doctoral Research - University of Arizona (1/91-8/91, 10/92-10/93)
Post-Doctoral Research - Oregon State University (9/91-9/92)

MAJOR PROGRAM AREAS

- Educational Programming - Includes Master Gardener Training, Pesticide Applicator Training, Crop Biosecurity First Detector Training, and grower (crop) workshops and conferences.
- Clinical Plant Pathology - Operate plant diagnostic clinic at New Mexico State University, a NPDN support lab. Diagnoses include primarily plant diseases and abiotic disorders. Clinic serves as a clearing lab for arthropod, weed, and plant identification. Diagnostic reports address identified problems and potential management strategies.
- Applied Research - investigate host-pathogen interactions and plant disease management methods.
- Pest Survey and Detection - Survey and identify new diseases in New Mexico. Participate in National and Regional surveys through CAPS and the ipmPIPE.
- Integrated Pest Management - help develop overall management programs which improve crop production by reduces the impact of pests, specifically diseases.
- Public Outreach - write extension publications, newsletter articles, news releases, radio and T.V. spots, create and maintain webpages, and provide updates on disease problems and outbreaks for National disease databases and publications.

GRANTS RECEIVED (Recent)

- Western Plant Diagnostic Network, USDA-CSREES, 2003-2013, \$384,000
- Phytophthora management, NM Chile Improvement Project, 2012-2013, \$30,000
- Extension IPM in New Mexico, USDA-NIFA, 2010-2012, 200,652
- Western Small Farms IPM, USDA-NIFA, 2010-2012, \$150,000
- Extension IPM in New Mexico, USDA-CSREES, 2009-2010, \$67,000.
- Methlobacterium, Southwest Consortium, 2010-2011, \$60,000
- Rapid Blight, Southwest Consortium, 2010-2011, \$70,000
- Legume ipmPIPE, USDA-CSREES-RMA, 2007-2011, \$54,055

COLLABORATIONS, AFFILIATIONS AND SYNERGISTIC ACTIVITIES

- Western Plant Diagnostic Network – NMSU’s Plant Diagnostic Clinic is affiliated with the WPDN as a support laboratory. Contributions to the Network include the contribution of New Mexico State diagnostic data for the National database and educational training for certified First Detectors. The clinic also serves a supplemental resource for diagnostic services when national or regional outbreaks occur.
- NMSU Research Activities – Active research collaboration is ongoing with Dr. Jennifer Randall’s Lab at New Mexico State University investigating management strategies for *Phytophthora capsici* and the mechanisms of induced resistance to *Phytophthora capsici* in peppers. Active research collaboration is ongoing with the University of Arizona (Dr. Mary Olsen) investigating rapid blight on turfgrass in New Mexico. Active collaboration with Dr. Richard Heerema’s lab at NMSU working on cold tolerance on pecan rootstock and investigating nutrient uptake efficiency of pecan rootstocks under alkaline soil conditions.

PROFESSIONAL AFFILIATIONS AND SERVICE

- National Plant Diagnostic Network, since 2002 – National Meeting Program Planning Committee (2011)
- American Phytopathological Society, since 1985 - Extension Committee (1996-1999), Teaching Committee (1992-1994), Graduate Student Committee (1990-1991).
- American Phytopathological Society, Pacific division, since 1985 - President 2000, President-elect 1999, Program Sub-committee, Joint meeting of CPS/APS-PD, Victoria, BC 2000.

SELECTED EXTENSION PUBLICATIONS (past 5 years)

Goldberg, N. 2013. Blossom-End Rot (Guide A-231). NMSU – University Communications

Maier, B. and **N. Goldberg.** 2010. Grape Powdery Mildew (Guide H-329). NMSU – University Communications

Heerema, R., **N. Goldberg,** and S. Thomas. 2010. Diseases and Other Disorders of Pecan in New Mexico (Guide H-657). NMSU – University Communications

Goldberg, N. 2009. Verticillium Wilt of Chile Peppers (Guide H-250). NMSU-University Communications.

SELECTED EXTENSION PUBLICATIONS (past 5 years) - Continued

Marsalis, M. A., Puppala, **N., Goldberg**, N. P., Ashigh, J., Sanogo, S. and Trostle, C. 2009. New Mexico Peanut Production (Circular-645). NMSU - University Communications.

Walker, S., **Goldberg, N.** and Cramer, C. 2009. Onion Diseases in New Mexico (Circular 538). NMSU-University Communications

Goldberg, N. and French, J. 2009. How to Collect and Send Plant Specimens for Disease Diagnosis (Guide H-158). NMSU-University Communications.

SELECTED REFEREED PUBLICATIONS (past 5 years)

French, J. M., N. P. Goldberg, S. F. Hanson, and J. J. Randall. 2013. Analysis of the Nucleocapsid Protein from Tomato Spotted Wilt Virus Isolates in New Mexico. *Phytopathology* (submitted).

French, J. M. J. J. Randall, R. A. Stamler, A. C. Segura, and N. P. Goldberg. 2013. First Report of Anthracnose of Sunflower Sprouts caused by *Colletotrichum acutatum* in New Mexico. *Plant Dis.* (accepted). "First Look" paper, <http://dx.doi.org/10.1094/PDIS-08-12-0805-PDN>.

French, J. M., R. Stamler, J. J. Randall, and **N.P. Goldberg**. 2011. First Report of Buckeye Rot caused by *Phytophthora nicotianae* on Tomato in New Mexico. *Plant Dis.* 95(8) 1029.

French, J. M., R. Stamler, J. J. Randall, and **N.P. Goldberg**. 2011. First Report of *Phytophthora nicotianae* on Bulb Onion in the United States. *Plant Dis.* 95(8) 1028.

Randall, J. J., J. M. French, S. Yao, S. F. Hanson, and **N. P. Goldberg**. 2011. First Report of *Xylella fastidiosa* in Peach in New Mexico. *Plant Dis.* 95(7):871.

Randall, J.J., **N.P. Goldberg**, J. D. Kemp, M. Radionenko, J. M. French, M.W. Olsen, and S. F. Hanson. 2009. Genetic Analysis of novel *Xylella fastidiosa* subspecies found in the Southwestern United States. *Appl. Environ. Microbiol.* 75(17):5631-5638.

French, J. M., R. J. Heerema, E. A. Gordon, and **N. P. Goldberg**. 2009. First report of Septoria leaf spot of pistachio in New Mexico. *Plant Dis.* 93(7):762.

WEBPAGES

Webpage design and maintenance:

- <http://aces.nmsu.edu/ces/plantclinic/>
- <http://eps.nmsu.edu/>

Webpage maintenance:

- <http://aces.nmsu.edu/ces/mastergardeners/>
- <http://desertblooms.nmsu.edu/>