

NATALIE P. GOLDBERG

Extension Plant Sciences Department

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

EDUCATION

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

PROFESSIONAL EXPERIENCE

6/07-present Department Head, Extension Plant Sciences, New Mexico State University
12/12-present Distinguished Achievement Professor, New Mexico State University
7/04-12/12 Professor, Extension Plant Pathologist, New Mexico State University
7/00-7/04 Associate Professor, Extension Plant Pathologist, New Mexico State University
11/93-7/00 Assistant Professor, Extension Plant Pathologist, New Mexico State University
10/92-10/93 Post-Doctoral Research Associate, University of Arizona
9/91-9/92 Post-Doctoral Research Associate, Oregon State University
1/91-8/91 Post-Doctoral Research Associate, University of Arizona

LICENSES - **Public Applicators Pesticide License** - New Mexico Department of Agriculture.

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 - Direct plant diagnostic clinic, a NPND support lab. Diagnoses include plant diseases and abiotic disorders, arthropod, weed, and plant identification. Diagnostic reports address identified problems and potential management strategies. The clinic also participates in National and Regional pests surveys.
- Applied Research and IPM - investigate host-pathogen interactions and plant disease management methods, help develop overall management programs which improve crop production by reducing the impact of pests, specifically diseases.
- Public Outreach - write extension publications, disease factsheets, newsletter articles, news releases, Facebook posts, radio and T.V. spots and provide updates on disease problems and outbreaks for National disease databases and publications.

PUBLICATIONS (Past 10 years)

- Hilton, A. E., Jo, Y.K., Cervantes, K., Stamler, R. A., French, J. M., Heerema, R. J., **Goldberg, N. P.**, Sherman, J., Olsen, M., Wang, X., Randall, J. J., and Grauke, L. J. 2017. First Report of *Xylella fastidiosa* in *Carya illinoensis* in Arizona, New Mexico, California and Texas. Plant Dis. (accepted with revision).
- French, J. M., Beacham, J. Garcia, A., **Goldberg, N. P.**, Thomas, S. H., and Hanson, S. F. 2017. First Report of Stem and Bulb Nematode, *Ditylenchus dipsaci*, on Garlic in New Mexico. Plant Health Progress (in press).

- Stamler, R. A. Sanogo, S., **Goldberg, N. P.**, Randall, J. J. 2016. Identification of Phytophthora species in Rivers and Streams of the Southwestern United States. Appl. Environ. Microbiol. DOI:10.1128/AEM.01162-16.
- French, J. M., **Goldberg, N. P.**, Randall, J. J., and Hanson, S. F. 2016. New Mexico and the Southwestern US are affected by a unique population of tomato spotted wilt virus (TSWV) strains. Arch. of virol. 161:993-998.
- **Goldberg, N. P.** and French, J. M. 2016. Tomato Spotted Wilt Virus (Guide H-242). Las Cruces: NMSU-University Communications.
- **Goldberg, N. P.** and Leinauer, B. 2016. Lawn Care for Disease Control (Guide H-507). Las Cruces: NMSU-University Communications.
- Marsalis, M. and **Goldberg, N. P.** 2016. Leaf, Stem and Stripe Rust Diseases of Wheat (Guide A-415). Las Cruces: NMSU-University Communications.
- Chitrapalam, R., **N. P. Goldberg**, and M. W. Olsen. 2015. *Labyrinthula* species associated with turfgrass in Arizona and New Mexico. European Journal of Plant Pathology 143(3) DOI:10.1007/s10658-015-0701-0.
- Stamler, R. A., O. Holguin, B. Dungan, T. Schaub, S. Sanogo, **N. Goldberg**, and J. J. Randall. 2015. BABA and *Phytophthora nicotianae* Induce Resistance to *Phytophthora capsici* in Chile Pepper (*Capsicum annuum*). PLoS ONE 10(5):e0128327. DOI:10.1371/Journal.pone.0128327.
- Sikora, E. J., T. W. Allen, K.A. Wise, **N. P. Goldberg** and 52 others. 2014. A Coordinated Effort to Manage Soybean Rust in North America: A Success Story in Soybean Disease Monitoring. Plant Dis. 98(7), 864-875.
- 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. 97(6), 838.
- **Goldberg, N. P.** 2013. Blossom-end Rot (Guide A-231). Las Cruces: NMSU-University Communications.
- 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.
- Heerema, R., **N. Goldberg**, and S. Thomas. 2010. Diseases and Other Disorders of Pecan in New Mexico (Guide H-657). Replaces Guide H-645 Pecan Diseases and Their Control. NMSU – University Communications.
- Maier, B. and **N. Goldberg**. 2010. Grape Powdery Mildew (Guide H-329). NMSU – University Communications.
- 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.
- **Goldberg, N.** 2009. Verticillium wilt of Chile Peppers (Guide H-250). NMSU – University Communications (Revised 2009; originally published 2003).
- Marsalis, M. A., N. Puppala, **N. P. Goldberg**, J. Ashigh, S. Sandoval, and C. Trostle. 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 (revised 2009; originally published 1995).

- Randall J. J., M. Radionenko, J. M. French, **N. P. Goldberg**, and S. F. Hanson. 2007. First Report of Pierce's Disease in New Mexico. *Plant Health Progress* doi:10.1094/PHP-2007-1002-01-RS.
- Randall J. J., M. Radionenko., J. M. French, M. W. Olsen, **N. P. Goldberg**, and S. F. Hanson. 2007. *Xylella fastidiosa* detected in New Mexico in chitalpa, a common landscape ornamental plant. *Plant Dis.* 91:329.
- **Goldberg, N.P.** 2007. 20 Ornamental and Turf Disease Fact Sheets: Crown Gall (OD-1), Slime Flux (OD-2), Fire Blight (OD-3), Powdery Mildew on Ornamentals (OD-4), Verticillium Wilt (OD-5), Cytospora Canker (OD-6), Rust (OD-7), Phymatotrichum Root Rot (OD-8), Rose Mosaic Virus (OD-9), Mistletoes (OD-10), Dollar Spot (TD-1), Summer Patch (TD-2), Powdery Mildew on Turf (TD-3), Rust on Turf (TD-4), Fairy Ring (TD-5), Brown Patch (TD-6), Anthracnose (TD-7), Pythium (TD-8), Leaf Spot and Melting Out (TD-9), and Fusarium Diseases (TD-10). Las Cruces: NMSU-CES.
- Ronquillo, M and **Goldberg N. P.** 2006. New Mexico Pest Risk Assessments. NMSU-University Communications

Websites and Social Media

- NMSU - Plant Diagnostic Clinic - <http://aces.nmsu.edu/ces/plantclinic/>
- NMSU – Plant Diagnostic Clinic Blog - <http://nmsuplantclinic.blogspot.com/>
- NMSU – Plant Diagnostic Clinic Facebook Page - <https://www.facebook.com/plantdiagnosticclinic>
- NMSU – Plant Diagnostic Clinic Twitter Page - <https://twitter.com/NMSUPlantClinic>
- NMSU – Plant Diagnostic Clinic Pinterest Page - <https://www.pinterest.com/nmsup/plant-disease-and-disorder-information/>
- NMSU – Extension Plant Sciences Department - <http://eps.nmsu.edu/>

GRANTS RECEIVED (past 7 years)

- **Goldberg, N. P.** 2003-2017. USDA-Western Region Plant Disease and Pest Diagnostic Network. *Plant Disease and Pest Diagnostics*. Over \$470,000.
- Grasswitz, T., French, J., Grover, K., and **Goldberg, N.** 2013-2015. Coordination Program for Extension IPM in New Mexico, USDA/NIFA/Extension Integrated Pest Management, \$95,577.00
- Randall, J., **Goldberg, N.**, and Sanogo, S. 2012-2013. Controlling root rot in chile pepper caused by *Phytophthora capsici* using native non-pathogenic *Phytophthora* populations. New Mexico Chile Improvement Project. \$30,000.
- **Goldberg, N.** and Grasswitz, T. 2010-2012. Extension IPM in New Mexico. USDA-NIFA. \$200,652.
- Randall, J. **Goldberg, N.** and Sanogo. 2010-2011. Methylobacterium Spp. as a Novel Delivery System against Chile Patoghens. Southwest Consortium on Plant Genetics and Water Resources. \$60,000.
- Olsen, M., Wong, F., Douhan, g., **Goldberg, N.**, and Kopec D. 2010-2011. Roles of salinity stress and pathogen population diversity in development of rapid blight disease of turfgrass in the southwestern United States. Southwest Consortium on Plant Genetics and Water Resources. \$70,000.

PROFESSIONAL AFFILIATIONS AND SERVICE

- National Plant Diagnostic Network, since 2002 – Operations Committee, Member representative for Western Region (2013 – present), National Meeting Program Planning Committee (2016, 2011, & 2015-2016), PDIS Change Management Committee (2008 – 2009), Education Training Materials Committee (2004 – 2005), *P. ramorum*: Educate to Detect Program Review Committee (2004 – 2005).
- Western Plant Diagnostic Network, since 2002 – PDIS Change Management Committee Member (2008 – 2009), Education and Training Subcommittee Member (2006 – 2007), Exercise Planning Subcommittee Member (2006 – 2007).

- American Phytopathological Society (National and Pacific Division), since 1985 – Divisional Forum Rep, Pacific Division (2016-2019); Ad-Hoc Committee on the Documentation and Communication of the Impact of Plant Pathology (2014 - 2015); Pacific Division President 2000, President-elect 1999, and Program Sub-committee, Joint meeting of CPS/APS-PD, Victoria, BC 2000; Early Career Award Committee (2001 – 2006); Extension Committee (1996 – 1999); Teaching Committee (1992 – 1994); Graduate Student Committee (1990 – 1991).
- Epsilon Sigma Phi, National Honor Society of Extension Workers, 2008 - present. State Chapter President, 2012 – 2013.

HONORS & AWARDS

- NMSU ACES Team Award Pest Diagnostics and Response Team, March 2017
- Epsilon Sigma Phi, State Mid-Career Award, NM Chapter of Epsilon Sigma Phi, January 2012
- Distinguished Service Award, New Mexico Specialist's Association, April 15, 2011
- Outstanding First Detector Educator, National Plant Diagnostic Network, December 2009
- Distinguished Extension Award, New Mexico State University, CAHE, 2003
- Special Commendation for Exemplary Service to the Karnal Bunt Program, USDA, 1996