

BIOGRAPHICAL INFORMATION

Soum Sanogo

Professor of Fungal Plant Pathology
Dept. of Entomology, Plant Pathology, and Weed Science
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EDUCATION

- Ph. D. Plant Pathology. 1995 (Minor in Statistics). Pennsylvania State University
- M.S. Plant Pathology. 1991. Pennsylvania State University
- B. S. Crop Protection 1987. ENSA, Abidjan, Côte D'Ivoire

EMPLOYMENT

- 7/2014-present. Professor, Dept. of Entomology, Plant pathology and Weed Science, New Mexico State University, Las Cruces, NM.
- 7/2008–6/2014. Associate Professor, Dept. of Entomology, Plant Pathology, and Weed Science, New Mexico State University, Las Cruces, NM.
- 2002–6/2008. Assistant Professor, Dept. of Entomology, Plant Pathology, and Weed Science, New Mexico State University, Las Cruces, NM.
- 2000–2002. Research Associate, Wye Research and Education Center, University of Maryland and Alternate Crops and Systems Laboratory, USDA-ARS, Beltsville, MD.
- 1997-1999. Postdoctoral Research Associate, Dept. of Plant Pathology, Iowa State University, IA.
- 1996. Postdoctoral Research Associate, Dept. of Plant Pathology & Ecology, Connecticut Agricultural Experiment Station, CT.

TEACHING MISSION AND TEACHING AREAS

Teaching Mission

- To engage students through Experiential Learning based not on *WHAT TO THINK* but on *HOW TO THINK*

Teaching Areas

- Fungal Biology, EPWS 373/573: Morphology, ecology, and physiology of fungi.
- Diagnosing Plant Disorders, EPWS 492: Biotic and abiotic causes of plant disorders.
- Guest Lectures in the following courses: EPWS505 – Advanced Integrated Pest Management; EPWS506- Biological Control; EPWS481-Nematology; AGRO465- Principle of Crop Production; AGRO476-Soil Microbiology; and AGRO483- Sustainable Production of Agronomic Crops.

RESEARCH MISSION AND RESEARCH AREAS

Research Mission

- To provide research-based information to New Mexican growers for minimizing the impact of soilborne diseases and maintaining sustainable and profitable crop production.

Research Areas

- My professional background spans over 20 years working on research projects in the area of plant health in Pennsylvania, Connecticut, Iowa, Maryland, Brazil, Philippines, and New Mexico. My research has been on foliar and soilborne diseases of field crops, ornamentals, fruit, and vegetables. At NMSU, my research focuses on soilborne diseases of vegetables (onion, pepper, cucurbits, and crucifers), and field crops (peanut, cotton, alfalfa, and sunflower), with emphasis on the biology of soilborne pathogens and the use of biorational approaches for managing soilborne diseases. Disease management based on biorational approaches is aimed at using botanical extracts, inorganic substances, microbial formulations, bioactive and biostimulant crop residues, and genetic soil disinfestation.

PROFESSIONAL SOCIETY MEMBERSHIP & ACTIVITIES

- Past-President, American Phytopathological Society (APS)-Pacific Division, 2017-2018
- President, American Phytopathological Society (APS)-Pacific Division, 2016-2017
- President-Elect, American Phytopathological Society (APS)-Pacific Division, 2015-2016.
- Secretary/Treasurer, APS-Pacific Division, 2013-2015.
- Associate Editor, Phytopathology. APS (January 2015-December 2017).
- APS Committee Chair, Integrated Disease Management Committee, 2008-2010.
- APS Committee Vice-Chair, Integrated Disease Management Committee, 2007-2008.
- APS Committee Member, Microbiology and Root Diseases Committee, 2004-2007.
- APS Committee Member, Epidemiology Committee, 1998-2001.
- CSSA Committee Member, CSSA International Crop Science Committee, 2006-2009.
- Gamma Sigma Delta, Honor Society of Agriculture

HONORS & AWARDS

- NACTA (North America Colleges and Teachers of Agriculture) Teaching Award (August 2020), College of Agricultural, Consumer and Environmental Sciences (CACES) , New Mexico State University (NMSU)
- Distinguished Teaching Award (May 2019), CACES, NMSU
- Distinguished Research Award (May 2017), Mobley Family Endowed-CACES, NMSU
- Plant Pest Response Network Team Award (May 2017), CACES, NMSU
- Distinguished Service Award (April 2015), Charles Tharp Farms Endowed-CACES, NMSU
- Honoree Volunteer in Agriculture (April 2014), Texas A&M AgriLife Extension, El Paso for service provided to county agents of Texas A&M AgriLife Extension, El Paso.
- Research Award, APS Foundation, 2007 JANE.
- US Patent No. PP11,927. Regal Pelargonium named "Symphony" by R. Craig and S. Sanogo (<http://www.google.com/patents/USPP11927>)
- U.S. Patent Application No. 14/558,601 - Organic and Environmentally "Green" Biocide by Hugo A. Morales-Morales, Geoffrey Battle Smith, Soum Sanogo, Alba Chavez-Dozal

OUTREACH MISSION AND ACTIVITIES

Outreach Mission

- To provide research-based information to New Mexican agricultural producers, agriculturalists, educators, and students for understanding the nature of soilborne diseases and reducing the impact of these diseases on urban, agricultural, and natural ecosystems.

Outreach Activities

- ACES Open House (Exploring Fungi, The Good, The Bad, and The Ugly)
- 4-H and FFA events (Diagnosis of Plant Diseases)
- Hispanic Farmers and Ranchers of America Meetings and Conferences (including Risk Management Conference)
- New Mexico Chile Conference
- New Mexico Cotton Conference
- New Mexico Peanut Growers Meetings and Field Days
- New Mexico Chile Association and Field Days
- New Mexico Crop Production Association Meetings
- NMSU Onion Field Day
- Hudspeth County (Texas) Ag Day
- Southern New Mexico State Fair
- Science Fairs and Careers Days at various K-12 schools
- Diagnostics service to various commodity producers, gardeners, homeowners, and extension agents.

NMSU LEADERSHIP

- Representative of the Department of Entomology, Plant Pathology, and Weed Science on the Promotion & Tenure Committee, College of Agricultural, Consumer, and Environmental Science (2014-2017))
- CACES Faculty Senator (2010-2013)
- Vice-Chair, Faculty Senate, and Chair, Committee on Committee (2012-2013)
- Faculty Senate Representative on the NMSU Building The Vision Committee (Chair of the International Reach Workgroup; 2011-2012)
- Co-Chair of the Faculty Senate University Affairs Committee (2011-2012)

INTERNATIONAL RESEARCH EXPERIENCE

- **Philippines**, February 17-March 5, 2007. Visit to Central Luzon State University, JANE project on “Reducing Phytophthora Fruit Rot in Vegetables in Nueva Ecija, Philippines, with Rice Residues and Swine Manure.”
- **Brazil**, 2000 (August 20-30) & 2001 (May 13-26). Ilheus, Bahia, Almirante Cacau, Biological control of witches’ broom disease in cacao.