

Surendra Osti

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Education

Ph.D., Agricultural Economics (2015- present)
Louisiana State University, Baton Rouge, LA

M.S., Plant Health (2012 - 2014)
Louisiana State University, Baton Rouge, LA
Thesis: “Characterization of a σ^{54} -dependent response regulator, *tepR*, in the rice-pathogenic bacterium *Burkholderia glumae* and development of biocontrol strategies for bacterial panicle blight of rice.”

B.S., Agricultural Science (2006 - 2010)
Institute of Agriculture and Animal Science (IAAS), Tribhuvan University, Nepal

Area of Specialization

Agricultural Economics
Plant Pathology and Crop Disease Management

Professional Experience

Graduate Research Assistant (January, 2015- Present)
Department of Agricultural Economics and Agribusiness
Louisiana State University, Baton Rouge, LA

Graduate Research Assistant (May, 2012 - December, 2014)
Department of Plant Pathology and Crop Physiology
Louisiana State University, Baton Rouge, LA

Exchange Visiting Scholar (February, 2012 - April, 2012)
North Florida Research and Education Center
University of Florida, Quincy, Florida

Plant Protection Officer (December, 2010 - December, 2011)
Society for Environment Conservation and Agricultural Research and Development Nepal, Kathmandu, Nepal

Research

Survey for data of local neglected and underutilized crops and analyze their contribution in food and nutrition security of Chepang communities in Chitwan district of Nepal.

Detect and characterize of *Didymella bryoniae* and *Phoma* spp. that causes the gummy stem blight in cucurbits.

Characterize a σ^{54} -dependent response regulator, *tepR*, in the rice-pathogenic bacterium *Burkholderia glumae* and develop biocontrol strategy for disease management of rice bacterial panicle blight.

Publications

Osti, S., (2016). "Effect of Drought Condition on the Technical Efficiency of Rice Farms in Thailand. EC Agriculture 3.3. Pp 674-680.

Osti, S., Gillespie, J., Nyaupane, N. P., & McMillin, K. (2016). Meat Goat Production in the United States: Adoption of Technologies, Management Practices, and Production Systems. Journal of the ASFMRA.

Lelis, T., Paula, D., Peng, J., **Osti, S.**, & Ham, J. H. (2016). The virulence function and regulation of the metalloprotease gene *prtA* in the bacterial plant pathogen, *Burkholderia glumae*. In *PHYTOPATHOLOGY* (Vol. 106, No. 12, pp. 157-157).

Melanson, R. A., Barphagha, I., **Osti, S.**, Lelis, T. P., Karki, H. S., Chen, R., ... & Ham, J. H. (2017). Identification of new regulatory genes involved in the pathogenic functions of the rice-pathogenic bacterium *Burkholderia glumae*. *Microbiology*, 163(2), 266-279.

Peng, J., Ham, J. H., **Osti, S.**, and Barphagha, I. K. (2015). Comparative transcriptomic analysis of *Burkholderia glumae* reveals the important role of *tepR* gene in regulating a multitude of cellular processes. *Phytopathology* (suppl. 4): S4.109

Osti S., Barphagha, I. K and Ham, J. H. (2014). *tepR*: A new luxO-type regulatory gene of the rice pathogenic bacterium, *Burkholderia glumae*. *Phytopathology* (suppl. 3): 104:S3.87

Ham, J.H., Shrestha B., Karki H., **Osti S.**, and Groth D. E. (2014). Genetic mapping and breeding of rice to improve rice disease resistance to bacterial panicle blight and sheath blight. 105th Annual Research Report of Rice Research Station (for 2013), p338 – 357.

Osti, S., Barphaga, I.K. and Ham, J.H. (2013). The novel regulator, *tepR*, influences toxoflavin production and virulence in the rice pathogenic bacterium *Burkholderia glumae*. (Abstr.) Phytopathology 103:S1.8

Khatiwada, B.P., Ghimire, R., Adhikari, R. and **Osti, S.** (2012). Increasing crop water productivity through local crops and technologies: a case from ethnic Chepong community of Nepal. Hydro Nepal. Special issue. Pp. 50-58

Khatiwada, B. P., Chaulagain, B. and **Osti, S.** (2012). Availability and use status of plant genetic diversities from forest for food, nutrition and livelihood security: A case from Chepong tribal communities of Nepal. World Journal of Science, Technology and Sustainable Development 9:2. Pp 147-158.

Osti, S. and Khatiwada, B. P. (2011). Community Seed Bank: concept, need and methods. In Dr. Sitamaiya Singh Thapa (Chief Ed.). Journal of Our Resources, Years 11, Issue 4, Pp 26-31. Our Resource Media and Counseling Center, Kathmandu, Nepal.

Poster presentations

Osti, S., Hassan M. R. and Gillespie, J. (2016). Study on Impacts of Labor Policy Changes on Louisiana Seafood Processing and Production. 4th Annual Summit for the Louisiana Commercial Fishing and Seafood Industry. March-01, 2016, Kenner, LA.

Osti, S., Hassan M. R. and Gillespie, J. (2016). Extent of Use of H-2A and H-2B Labor in Louisiana Crawfish and Alligator Production. 2016. Challenges of Natural Resource Economic Research in Coastal Systems. 5th National Forum on Socioeconomic Research in Coastal Systems, March 20-22, 2016, New Orleans, LA.

Osti, S., Shrestha B. K., Groth, G. E., Sha X. and Ham, J. H. (2014). Genetic Mapping and Development for New Control Methods for Major Rice Diseases in Louisiana. Rice Field Day, 2014. Rice Research Station, LSU AgCenter, Crowley, LA.

Languages

English - fluent, Nepali – fluent

Scholarship and Awards

Graduate Research Assistantship, Dept. of Agricultural Economics and Agribusiness, LSU (2015 - present)

Travel Award for American Phytopathological Society Annual Meeting 2014, Graduate Student Association, Dept. of Plant Pathology and Crop Physiology, LSU (2014)

Graduate Research Assistantship, Dept. of Plant Pathology and Crop Physiology, Louisiana State University (2012 – 2014)

2013 Highly Commended Paper Award, World Journal of Science, Technology and Sustainable Development, Emerald LiteratiNetwork (2013)

Exchange Visiting Scholar Fund, North Florida Research and Education Center, University of Florida (February, 2012 – April, 2012)

Scholarship of Merit, Office of Dean, Institute of Agriculture and Animal Science, Tribhuwan University (2006 – 2010)

Professional Associations

Member, Agricultural and Applied Economics Association (AAEA), United States

Member, Southern Agricultural Economics Associations (SAEA), United States

President, Agricultural Economics and Agribusiness Graduate Student Association, Louisiana State University

Public Relations Chair, International Cultural Center, Louisiana State University

Executive Committee Member, Association of Nepalese Agricultural Professionals of Americas, United States

Fundraising Chair, Graduate Student Association, Dept. of Ag. Economics and Agribusiness, Louisiana State University

References

Dr. James M. Fannin

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Dr. Maria Bampasidou

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Dr. Jong Hyun Ham

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