

Borlaug Fellowship Program Candidates 2011

<i>Gender</i>	<i>Region</i>	<i>Country</i>	<i>Primary Program objective</i>
Male	Asia	Bangladesh	Risk assessment and risk management in agricultural supply chains.
Male	Asia	Bangladesh	Using the recombinant nucleocapsid (N) protein of the PPR virus to develop a diagnostic test for the effective and rapid diagnosis of PPR.
Female	Asia	India	Comparing the gut microbial profiles in chickens treated with antibiotics and those treated with probiotics using metagenomics.
Male	Asia	India	Understanding host-pathogen interaction of bacterial blight disease in rice so as to develop robust rice varieties that are resistant to blight disease.
Male	Asia	India	Effects of soil and crop management practices on diversity and functioning of soil microbial populations and crop performance.
Female	Asia	India	To gain more knowledge on virological and molecular biology techniques involved in the evaluation of antiviral drugs and antiviral drug resistance in avian influenza viruses.
Male	Asia	India	To learn about the interactive effect of elevated CO ₂ and ambient temperature increase on soil moisture dynamics, looking at the vegetative growth state of wheat.
Female	Asia	Indonesia	Develop skills in nanotechnology system for food fortification.
Male	Asia	Indonesia	Diagnostic methods of infectious myonecrosis disease (IMND) in shrimp for early detection.
Female	Asia	Malaysia	Analyze the potential of dietary medium chain fatty acid (using palm products) to reduce methane emission while improving productivity of dairy cattle.
Male	Asia	Vietnam	Molecular techniques for improving abiotic and biotic stress tolerant rice variety.
Male	Asia	Vietnam	Improve skills/knowledge of Pest Risk Analysis. Wishes to learn about the PRA process and practices for tropical fruits (including lychee, longan, pomelo and mangosteen).
Male	Asia	Vietnam	Evaluate the methods of measuring pesticide residue in agricultural products.
Male	Eastern Europe	Azerbaijan	To screen wheat germplasm for rust resistance utilizing molecular markers. He has access to wheat germplasm in Azerbaijan for these studies.
Male	Eastern Europe	Bulgaria	To gain a better understanding of U.S. agricultural policy related to direct payments and other policy options as well as commodity market forecasting for tobacco and other commodities
Female	Eastern Europe	Bulgaria	To combine traditional breeding with molecular methods through new methods such as mapping for desirable traits using SSR or RFLP. Also hoping to gain background in production of haploids and protoplast culture.

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Female	Eastern Europe	Bulgaria	To gain additional experience in conventional microbiological methods and molecular methods for identification of bacteria causing veterinary diseases in cattle including mastitis and food borne pathogens such as Listeria and Campylobacter
Female	Eastern Europe	Bulgaria	To screen rapeseed cultivars using molecular (simple sequence repeat markers) and compositional analysis (Gas chromatography–mass spectrometry and Near-infrared spectroscopy) to select for composition and concentration of desirable fatty acids
Male	Latin America	Honduras	Conduct environmental evaluation for low-income communities.
Male	Latin America	Mexico	Development and validation of antimicrobial interventions in the meat industry.
Female	Latin America	Mexico	To improve the diagnosis and control of paratuberculosis in dairy cattle. Would like to learn the technique for allelic exchange and generation of site-directed mutations in preselected M. paratuberculosis genes in order to accelerate the development of mutants for vaccine evaluation.
Male	Latin America	Uruguay	Reducing the intensity of greenhouse gas emissions in grazing livestock production systems, focusing on beef and dairy.
Male	North Africa	Egypt	To understand the international context of Pest Risk Analysis.
Male	North Africa	Egypt	Evaluation of biological nitrification inhibition (BNI) function and development of new nitrogen fertilization guideline for sweet sorghum and rice.
Male	North Africa	Morocco	Detection and identification of the greening disease in citrus- Couple Psyllids/Candidatus liberibacter.
Male	North Africa	Tunisia	Detection of olive tree diseases and identification of genes implied in the resistance of olive trees to pathogens.
Female	North Africa	Algeria	Design integrated pest management systems. Wishes to enrich knowledge in various aspects of integrated pest management systems particularly the use of natural enemies.
Male	East Africa	Ethiopia	Acquisition and adaptation biotechnology and assessment of GMO crops.
Male	East Africa	Ethiopia	Become equipped with disciplinary and practical information on GMOs.
Male	East Africa	Kenya	To adapt molecular and biotechnological methods to transform crops to withstand drought stress brought about by climate change while observing biosafety issues.
Male	East Africa	Rwanda	Characterization of pathogen causing wilt of Irish potato and other solanaceous crops and weeds as well as training on the wilt disease management.
Male	East Africa	Tanzania	Attain modern agricultural biotechnology principles and applications

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Male	Southern Africa	Malawi	Receive training in the molecular characterization of cashew nut trees; investigating the genetic diversity using AFLPs.
Female	Southern Africa	South Africa	Detect quantitative traits loci that have effect on tick resistance, growth rate, post weaning growth, carcass composition, meat quality in beef cattle using SNPs marker in an F2 design experiment.
Male	Southern Africa	Zambia	Assess the genetic variability of maize populations and elite germplasm.
Male	Southern Africa	Mozambique	Obtain skills and knowledge and ensure the implementation of SPS/WTO agreement on trade.
Female	Southern Africa	Zambia	Enhance phosphorus solubilization by use of soil microbiota to improve crop productivity.
Male	West Africa	Ghana	Acquisition and adaptation of post-harvest techniques for fruit and other horticultural crops.
Female	West Africa	Ghana	Acquisition and adaptation of post-harvest techniques for fruit and other horticultural crops.
Male	West Africa	Nigeria	Breeding for resistance to striga in Maize
Female	West Africa	Nigeria	To improve processing technology (solar fish dryers) and management of fish supply chains in Nigeria.
Male	West Africa	Senegal	To gain new skills in use of molecular tools for detection and identification of fruit fly species.
Male	West Africa	Senegal	Screen the effect of processing on the contribution of cis-lycopene in total antioxidant capacity of tomatoes; screen the effect of storage on the contribution of cis-lycopene in total antioxidant capacity of tomatoes.