Active BMGF Mycotoxin Grants

As of November 2016

**Control Grants**

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|  | Funding Team  | Amount | Title | PO | Grantee | Description | Geography | Duration | Type |
| 1 | Agriculture and NutritionOPP1152561 | $4,000,000 | Partnership for Aflatoxin Control in Africa (PACA) II | Orin Hasson/Garron Hansen | African Union | Generate an evidence base on the prevalence of aflatoxin in Africa, disseminate knowledge about tools and strategies to combat aflatoxins and engage with public and private sector stakeholders on working in partnership to increase an aflatoxin-free food supply. | Sub-Saharan Africa | 12/1/2016-12/31/2020 | Control |
| 2 | AgricultureOPP1049295 | Aflatoxin activities about $1.5 million of a $15,000,000 total grant (total multi-donor AgResults fund $115,000,000) | AgResults: Innovation in Research & Delivery | Orin Hasson/Garron Hansen | International Bank for Reconstruction and Development | Incentivizing smallholder farmer adoption of promising aflatoxin control technologies  | Nigeria | 11/28/2012 – 9/28/2018 | Control |
| 3 | AgricultureOPP1133356 | $10,000,000 | Aflasafe Commercialization and Distribution | Orin Hasson/ Garron Hansen | International Institute of Tropical Agriculture | Support the commercialization and scale-up of Aflasafe, a biocontrol product which significantly reduces aflatoxin levels in maize and groundnuts, in 10 sub-Saharan African countries | Sub-Saharan Africa | 11/2/2015 - 11/30/2020 | Control |
| 4 | AgricultureOPP1151824 | $6,527,791(approximately 1/3 of budget for mycotoxin control) | Broad Spectrum Biological Control of Fungal Diseases | Vipula Shukla | Ag Biome, Inc. | Identify and validate biological fungicides to control one or more of three major crop diseases important in Sub-Saharan Africa including sorghum anthracnose, black Sigatoka in banana, and aflatoxin contamination in maize | Sub-Saharan Africa | 11/15/2016 – 12/31/2019 | Control |

**Diagnostics Grants**

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|  | Team  | Amount | Title | PO | Grantee | Description | Geography | Duration | Type |
| 1 | Agriculture (Livestock)OPP1022219 &OPP1078804 (renewal) | BMGF Amount: $500,000 of $2,850,000 for aflatoxin | Livestock Diagnostic Development | Samuel Thevasagayam | Diagnostics for All | The development of three low-cost, easy-to-use diagnostic tests. One for pregnancy detection in dairy cattle, one for detection of gram positive bacteria (Staphylococcus and Streptococcus) in milk, and one for detection of Aflatoxins (A. *flavus* and A. *parasiticus*) in stored feed.  | Sub-Saharan Africa | 2/18/2011- 12/31/20131/1/2014-12/31/2016(renewal) | Diagnostics |

**Health Impact Grants**

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|  | Team  | Amount | Title | PO | Grantee | Description | Geography | Duration | Type |
| 1 | Discovery OPP1066947 | $1,167,679.00 | Understanding mechanisms and identifying biomarkers for the relationship between aflatoxin exposure and child stunting | Sharon Bergquist | University of BelfastYun Yun Gong  | To identify the mechanism by which aflatoxin exposure causes child stunting in the first two years after birth, identify biomarkers and demonstrate their relevance to an intervention study to improve child growth outcomes. | Gambia, UK, France, US | 4/22/2013- 12/31/2016 | Health Impact |
| 2 | EDDOPP1066253 | $750,000 | Association of aflatoxin exposure and childhood stunting in Bangladesh | Florencia Vasta | International Centre for Diarrheal Disease Research, Bangladesh (ICDDR, B) | To improve scientific and public health understanding of aflatoxin as a potential food toxicant to guide better understanding of its deleterious effect on the linear growth of under 5 children and to develop better preventive options | Bangladesh, South Africa | 11/5/2012- 6/30/2017 | Health Impact |
| 3 | EDDOPP1066247 | $750,000 | Mycotoxins as a risk factor in childhood growth impairment worldwide. | Florencia Vasta | Michigan State UniversityFelicia Wu | To undertake an integrated approach – toxicology, immunology, exposure, epidemiology, and risk assessment to explore the most critical questions concerning the role of dietary mycotoxins in child growth impairment. | Tanzania, Nepal | 10/30/2012- 12/31/2016 | Health Impact |
| 4 | EDDOPP1066254 | $744,248 | Assessing aflatoxin exposure and malnutrition among children in East Africa | Florencia Vasta | CornellBecky Stoltzfus | Assess the role of mycotoxins in the pathogenesis of toxin-induced gut dysfunction and subsequent child stunting | Zimbabwe | 11/12/2012- 12/31/2017 | Health Impact |

Closed BMGF Mycotoxin Grants

As of November 2016

**All Categories**

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|  | Team  | Amount | Title | PO | Grantee | Description | Geography | Duration | Type |
| 1 | AgricultureOPP51892 | $2,699,737 | Exploring the Scope of Cost-effective Aflatoxin Risk Reduction Strategies in Maize and Groundnut Value chains so as to Improve Market Access of the Poor in Africa | Diana Grusczynski | IFPRI | To improve health and market access of the poor in Sub Saharan Africa by improving the knowledge of the cost-effectiveness of existing technologies to reduce aflatoxin risk, and understanding what is preventing them from being adopted as control strategies along maize and groundnut value chains. | Kenya, Mali | 1/1/2009- 1/31/2014  | Control |
| 2 | AgricultureOPP1007117 | $1,319,661 | Aflatoxin Contamination Prevention and Control in Grain | Prem Warrior and Orin Hasson | International Institute of Tropical Agriculture (IITA) | Development and commercialization of bio-control aflatoxin management tools to improve public health, increase trade, augment smallholder income, and enhance food security in Nigeria and Kenya. | Kenya, Nigeria | 5/10/2011- 12/14/2015 | Control |
| 3 | Discovery GCEOPP1046227 | $100,000 | Aflatoxin as a Cause of Stunting at Birth | Ling Wong | Johns Hopkins School of Public HealthJohn Groopman  | Johns Hopkins Bloomberg School of Public Health will test the hypothesis that exposure during pregnancy to aflatoxin, a toxin produced by mold that widely contaminates staple grains and nuts in hot, humid environments, can lead to stunted fetal growth. | Nepal | 11/1/2011 – 4/30/2013 | Health Impact |
| 4 | DiscoveryGCE Round 8OPP1058537 | $100,000 | RNAi of the rate limiting aflatoxin biosynthesis control | Christina Owen  | Jomo Kenyatta UniversityAmos Alakonya | to prevent aflatoxin contamination in maize by introducing RNA interference of key enzymes that enable fungi to synthesize aflatoxin | Kenya | 5/1/2012- 4/30/2014 | Control |
| 5 | DiscoveryGCE Round 9OPP1067832 | $100,000 | Aspergillus-resistant aflatoxin-free transgenic groundnuts | Christina Owen | University of ArizonaMonica Schmidt | to develop a fungal resistant, aflatoxin-free groundnut by suppressing fungal growth and inhibiting the fungus’ ability to biosynthesize the mycotoxin compound | Sub-Saharan Africa | 10/16/2012- 4/30/2014 | ControlBreeding |
| 6 | DiscoveryGCE Round 8OPP1060246 | $100,000 | Cereal drying unit to combat aflatoxin contamination | Christina Owen | Egerton UniversityMeshack Obonyo | to develop a simple, cost-effective, solar-powered grain drying unit for prevention of aflatoxin contamination in stored grain. | Kenya | 5/1/2012-4/30/2014 | ControlPost Harvest |
| 7 | DiscoveryGCE Round 9OPP1068145 | $100,000 | A Lab-on-Mobile-Device Platform for Seed Testing | Christina Owen | Mobile Assay, Inc.Donald Cooper | to develop a low-cost, highly sensitive smartphone-based platform that employs phone cameras to image and amplify signals from immunoassays to detect Botrytis and aflatoxin infection in seeds or soil. | Global | 10/15/2012-4/30-2014 | Diagnostics |
| 8 | DiscoveryGCE Round 8OPP1061062 | $100,000 | Biomarkers of in utero aflatoxin exposure and child growth | Joe Torres | WHO International Agency for Research on Cancer  | To evaluate the impact of seasonal dietary aflatoxin exposure of pregnant women in rural Africa by identifying biomarkers of exposure, growth impairment, and disease risk. | Gambia | 4/20/2012- 10/31/2013 | Health Impact |
| 9 | Discovery OPP1097579 | $174,981 | Conference: Aflatoxin control measures: A basis for improved health in developing countries | Sindura Ganapathi | WHOInternational Agency for Research on CancerChris Wild | This workshop will bring together mycotoxin experts in epidemiology, child health and agriculture to independently review and evaluate the current evidence on the broader health effects of mycotoxins to shift the debate from mycotoxins as a trade issue to mycotoxins as public health issue and influence policy. | Global | 10/2013 – 12/2015 | Health Impact and Control |
| 10 | AgricultureOPP1112728 | $634,791 | GCE Phase II: Lab-on-Mobile Device Platform for Mobile Diagnostics and Pathogen Surveillance (DFID) | Charlene McKoin | Mobile Assay Inc.  | Deploy a Lab-on-Mobile-Device platform on smartphones for use by Sub-Saharan Africa to quantify mycotoxins in grain and then develop an integrated mobile ozone decontamination treatment system for contaminated material | Sub-Saharan Africa | 8/6/2014-7/31/2016 | Control |
| 11 | NutritionOPP1118603 | $381,868 | Planning Grant for Trial of Mycotoxin Mitigation and Stunting in the First 1000 Days | Shelly Sundberg | CornellBecky Stoltzfus | To synthesize scientific, regulatory, and logistical information for key decisions and build capacity of a multidisciplinary team of researchers to implement a randomized trial to measure the effects of mycotoxin mitigation on child stunting. | Tanzania | 11/19/2014- 10/31/2016 | Health Impact |
| 12 | AgricultureOPP1026507 | $19,811,768 plus DFID and USAID co-funding | Partnership for Aflatoxin Control in Africa (PACA) | Orin Hasson | Meridian Institute | To develop an Africa-based and Africa-led partnership, and to substantially control aflatoxin contamination in key staple crops across sub-Saharan Africa. Note: there are 5 sub-grants attached to this grant. | Sub-Saharan Africa | 11/11/2011 – 11/16/2016  | Control |