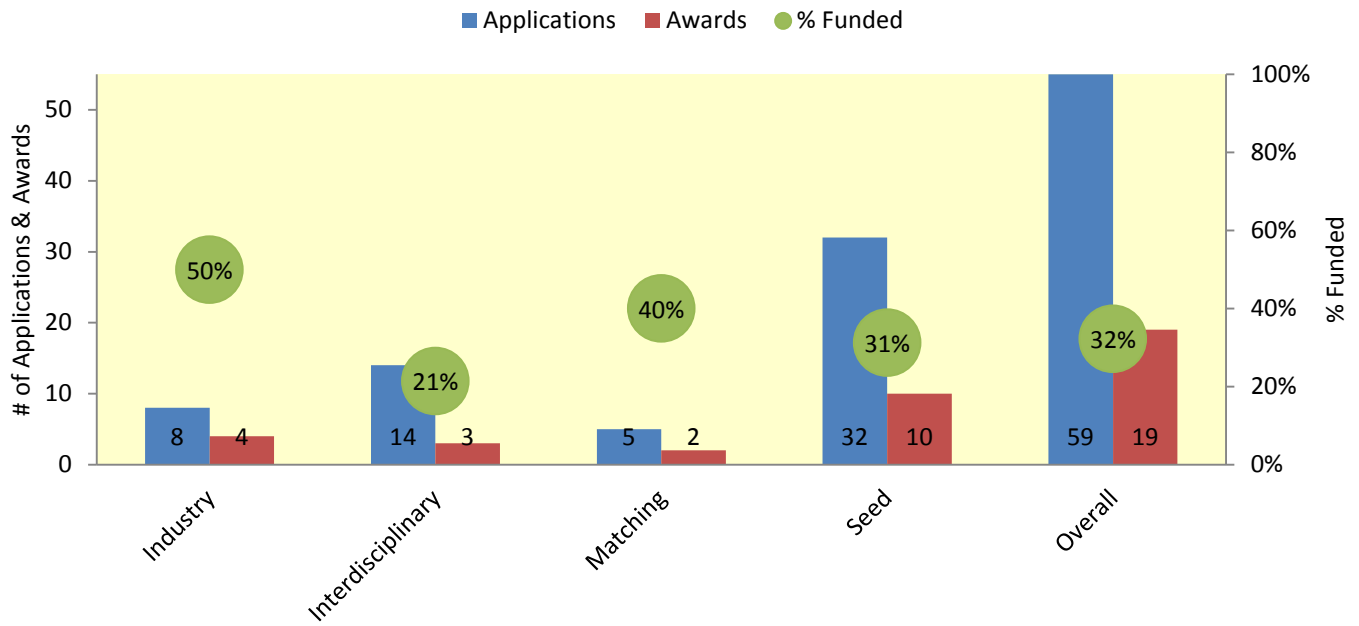
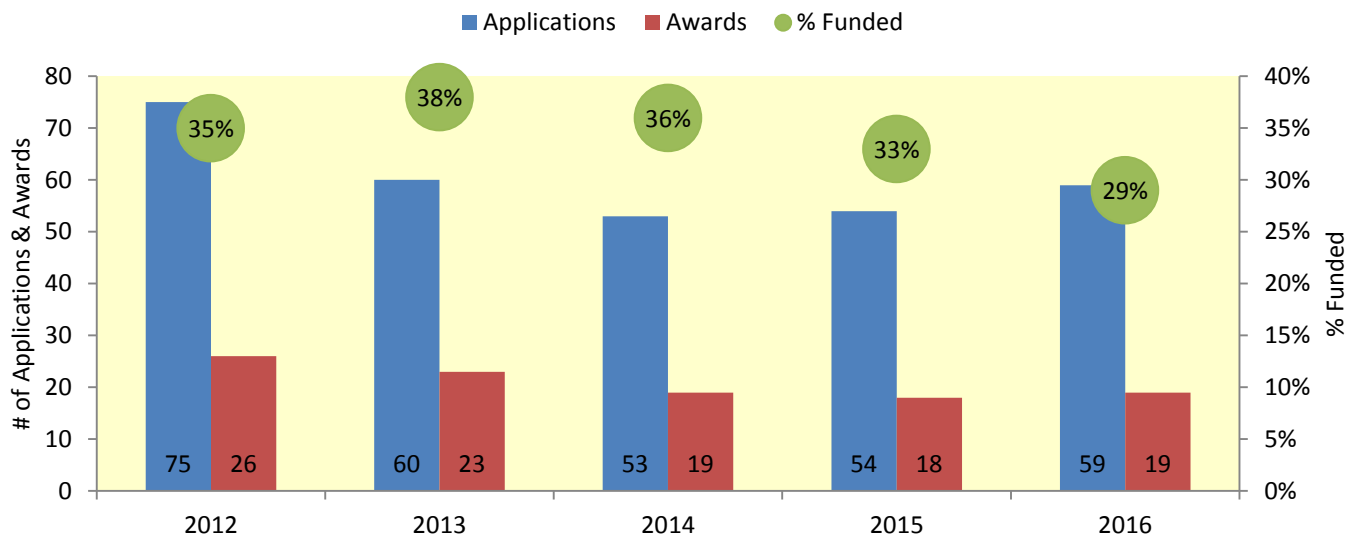


Applications, Awards & Funding Rates for Faculty Competition FY16



Applications, Awards & Funding Rate Comparison for Faculty Competition by FY



SEEDS: The OARDC Research Enhancement Competitive Grants Program

2016

Competition	# of Awards	Total Funding
Industry Small	4	\$33,000
Matching	2	\$99,840
Seed	10	\$446,210
Interdisciplinary	3	\$298,184
Agency	2	\$12,021
	21	\$889,255

Competition	# of Awards	Total Funding
Graduate	20	\$99,471
Undergraduate	3	\$8,484
	23	\$107,955

Michelle Jones, Horticulture & Crop Science **Industry** **\$10,000**

Evaluating application technologies to increase the efficacy of beneficial microbe applications for greenhouse bedding plant production

Yebo Li, Food, Agricultural, and Biological Engineering **Industry** **\$10,000**

Towards commercial production of crude glycerol-based polyols and spray PU foams for pipeline breaker application

Andrew Michel, Entomology **Industry** **\$9,000**

Improving management of Asiatic Garden Beetle: an emerging corn pest in Ohio

Sally Miller, Plant Pathology **Industry** **\$4,000**

Anaerobic soil disinfestation to manage soilborne diseases in muck soil vegetable production

Chenhee Lee, Animal Sciences **Matching** **\$50,000**

Improving feed utilization efficiency and decreasing risk for milk fat depression by optimizing ruminal biohydrogenation with supplemental branched chain volatile fatty acids and a methionine analog in dairy cows

Eric Stockinger, Horticulture & Crop Science **Matching** **\$49,840**

Accelerating development of diverse winter malting barley adapted to Ohio and the adjacent Midwestern, Great Lakes, and Northeastern State regions

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2016

Lisa Bielke, Animal Sciences	Seed	\$49,597
Characterization of avian enteric inflammation models to further facilitate study of host-microbiome interactions		
Pierluigi Bonello, Plant Pathology	Seed	\$50,000
Metabolic Responses of Austrian Pine to an Opportunistic Pathogen Under Drought Stress		
Imed Dami, Horticulture & Crop Science	Seed	\$50,000
Understanding the Role of Abscisic Acid on the Acquisition of Freezing Tolerance in Grapevines		
Sheila Jacobi, Animal Sciences	Seed	\$49,999
Optimizing nutritional support to maintain gut barrier function in the developing neonate		
Kristin Mercer, Horticulture & Crop Science	Seed	\$50,000
Drought tolerance in chile pepper (<i>Capsicum annuum</i>): the genetic basis of adaptation to drought in a center of crop diversity		
Gireesh Rajashekara, Food Animal Health Research Program	Seed	\$29,325
Probiotic bacteria (<i>E. coli</i> Nissle 1917) to enhance the performance of broiler chickens and control colonization with <i>Campylobacter</i>		
Ajay Shah, Food, Agricultural, and Biological Engineering	Seed	\$50,000
Feasibility analysis of a novel whole-plant feedstock supply system for co-located corn grain- and lignocellulosic biomass-based biorefineries		
Eric Toman, School of Environment & Natural Resources	Seed	\$17,420
The relevance of farming as an occupational identity to the adoption of best management practices		
Macdonald Wick, Animal Sciences	Seed	\$49,869
Impact of Frozen Storage on the Quality of Poultry Meat		
Kaiguang Zhao, School of Environment & Natural Resources	Seed	\$50,000
Sensitivity of crop production to climate change: A modeling perspective		
Konrad Dabrowski, School of Env & Natural Resources	Interdisciplinary	\$100,000
Macdonald Wick & Michael Davis, Animal Sciences		
Richard Bruno, Health Sciences		
Genetic and nutritional strategies to enhance yellow perch (<i>Perca flavescens</i>) performance on soy protein-based diets		

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2016

<p>Gwilym Davies, School of Environment & Natural Resources Virginia Rich, Microbiology Gil Bohrer, Civil, Environmental and Geodetic Engineering</p>	<p>Interdisciplinary</p>	<p>\$98,184</p>
<p>PRO Peat Bog: indicators for assessing the Potential for Restoration of Ohio's Peat Bog ecosystems</p>		
<p>Ye Xia, Plant Pathology David Mackey, Horticulture and Crop Science Ana Alonso, Molecular Genetics</p>	<p>Interdisciplinary</p>	<p>\$100,000</p>
<p>Functional characterization of Acyl Carrier Protein (ACP) 4 in repressing the activity of a conserved virulent factor of bacteria <i>Pseudomonas syringae</i> pv. tomato DC3000</p>		
<p>Pierluigi Bonello, Plant Pathology</p>	<p>Agency</p>	<p>\$1,900</p>
<p>USDA Forest Service Grant Sudden oak death in three East Bay Regional Park District Parks</p>		
<p>Peter Piermarini, Entomology</p>	<p>Agency</p>	<p>\$10,121</p>
<p>PHIPD Program Identification of new transmission blocking drugs for malaria</p>		
<p>Hyesun Jang, Veterinary Preventive Medicine Chang Won Lee, Food Animal Health Research Program (Advisor)</p>	<p>Graduate</p>	<p>\$5000</p>
<p>A novel universal master donor virus for production of live-attenuated influenza vaccine</p>		
<p>Elizabeth Ames, Environmental Science Graduate Program Chris Tonra, School of Environment & Natural Resources (Advisor)</p>	<p>Graduate</p>	<p>\$5000</p>
<p>Links between Wintering Habitat, Breeding Phenology, and Post-Fledging Survival, in a Migratory Songbird</p>		
<p>Adam Khalaf, Food, Agricultural, and Biological Engineering Yebo Li, Food, Agricultural, and Biological Engineering (Advisor)</p>	<p>Graduate</p>	<p>\$5000</p>
<p>Beneficial reuse of flue gas desulfurization gypsum for the removal of phosphorus from anaerobic digestion effluent</p>		
<p>Jaqueline Huzar Novakowski, Plant Pathology Anne Dorrance, Plant Pathology (Advisor)</p>	<p>Graduate</p>	<p>\$5000</p>
<p>Identifying the mechanisms associated with increased susceptibility of soybean to <i>Sclerotinia sclerotiorum</i> following pyraclostrobin treatment</p>		
<p>Ashish Manandhar, Food, Agricultural, and Biological Engineering Ajay Shah, Food, Agricultural, and Biological Engineering (Advisor)</p>	<p>Graduate</p>	<p>\$5000</p>

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Technical and economic feasibility of increasing biomass density for efficient biomass transportation for biofuels production

James Palus, School of Environment & Natural Resources **Graduate** **\$5000**

Charles Goebel, School of Environment & Natural Resources (Advisor)

Influence of Biological and Environmental Factors on Oak Decline in Forests of Southeastern Ohio

Lu Zhang, Food, Agricultural, and Biological Engineering **Graduate** **\$5000**

Yebo Li, Food, Agricultural, and Biological Engineering (Advisor)

Development of Innovative Non-isocyanate Polyurethanes from Lignocellulosic Biomass and CO₂

Ashley Yates, Entomology **Graduate** **\$5000**

Andy Michal, Entomology & Josh Blakeslee, Horticulture and Crop Science (Advisors)

A proteomics approach to identify virulence in the soybean aphid, *Aphis glycines*

Hannah Whitehead, Environmental Science Graduate Program **Graduate** **\$981**

Casey Hoy, Entomology (Advisor)

Varroa mite (*Varroa destructor*) management for the small-scale beekeeper: is drone brood removal a viable management option?

Christopher Okonkwo, Animal Sciences **Graduate** **\$5000**

Thaddeus Ezeji, Animal Sciences (Advisor)

Development of next-generation microbial biocatalysts for efficient production of 2, 3 – butanediol

Qin Guo, Plant Pathology **Graduate** **\$5000**

Feng Qu, Plant Pathology (Advisor)

Assessing potential beneficial role of plant transposable elements by interrogating the ONSEN retrotransposon family of Arabidopsis

Kristen Towne, School of Environment & Natural Resources **Graduate** **\$4166**

Konrad Dabrowski, School of Environment & Natural Resources (Advisor)

Determining the influence of temperature on sex differentiation in yellow perch (*Perca flavescens*)

YUN LIN, Horticulture & Crop Science **Graduate** **\$5000**

Josh Blakeslee, Horticulture and Crop Science (Advisor)

Characterization and Efficacy Assessment of Anti-microbial Compounds from Burdock on Burn Wound Pathogens

Allen Goodwin, Horticulture & Crop Science **Graduate** **\$5000**

Laura Lindsey, Horticulture and Crop Science (Advisor)

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Seeding rate and variety effects on yield and grain quality of soft red winter wheat

Susan Ndiaye, Entomology **Graduate** **\$5000**

Celeste Welty, Entomology (Advisor)

Augmentative Biological Control of the Twospotted Spider Mite on Hops

Richard Oldham, School of Environment & Natural Resources **Graduate** **\$4453**

Suzanne Gray, School of Environment & Natural Resources (Advisor)

Investigating the role of dissolved oxygen and turbidity on visually-mediated behavior in an African cichlid fish (*Pseudocrenilabrus multicolor victoriae*).

Carlos Esquivel, Entomology **Graduate** **\$4871**

Luis Canas & Andy Michael, Entomology (Advisors)

Are insecticides helping invasive lady beetles displace our native species?

Erin O'Brien, Entomology **Graduate** **\$5000**

Dan Herms, Entomology (Advisor)

Ash conservation in the face of the emerald ash borer invasion: strategies for conserving reproduction, regeneration, and genetic variation of ash trees (*Fraxinus* spp.)

Jacqueline Nolting, Agricultural Communication, Education, and Leadership **Graduate** **\$5000**

Scott Scheer, Agricultural Communication, Education, and Leadership (Advisor)

Presence of influenza A viruses in poultry and waterfowl at Ohio agricultural exhibitions

Kaitlyn Kinney, School of Environment & Natural Resources **Graduate** **\$10000**

Chelsea Crosby, School of Environment & Natural Resources

Lauren Pintor, School of Environment & Natural Resources (Advisor)

The Effect of Evolutionary History and Dietary Behavior on the Ability of a Native Predator to Consume and Control Invasive Prey

Douglas Liebe, Animal Sciences **Undergraduate** **\$2184**

Maurice Eastridge, Animal Sciences (Advisor)

Effect of Varying Grain Diets on Fecal Shedding of Coliform Bacteria in Lactating Dairy Cows

Samuel Reed, School of Environment & Natural Resources **Undergraduate** **\$3000**

Roger Williams, School of Environment & Natural Resources (Advisor)

Peter Curtis, Evolution, Ecology, and Organismal Biology (Advisor)

Biotic Stressors and Their Impact on Canopy Structural Complexity in the Allegheny National Forest

SEEDS: The OARDC Research Enhancement Competitive Grants Program

2016

Mara Momenee, School of Environment & Natural Resources

Undergraduate

\$3300

Jeremy Brooks, School of Environment & Natural Resources (Advisor)

Examining the Impacts of Experiential Learning on Healthy Food Behavior, Perception and Knowledge