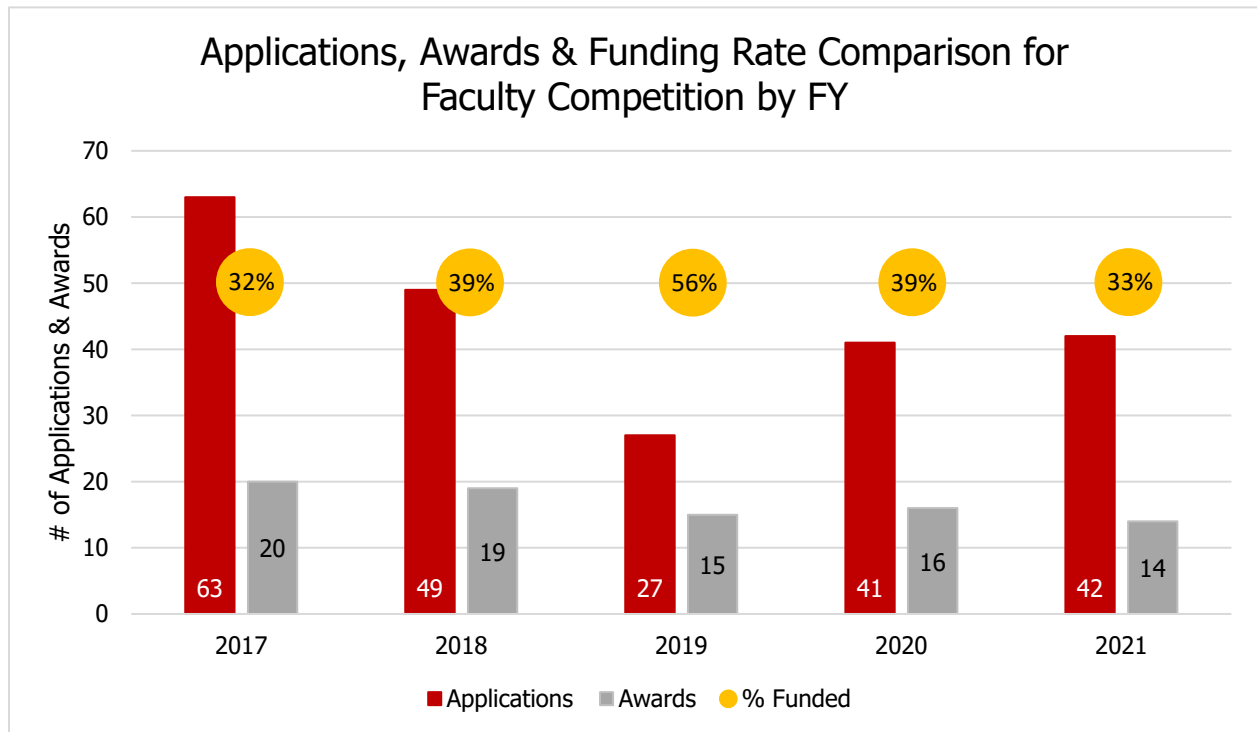
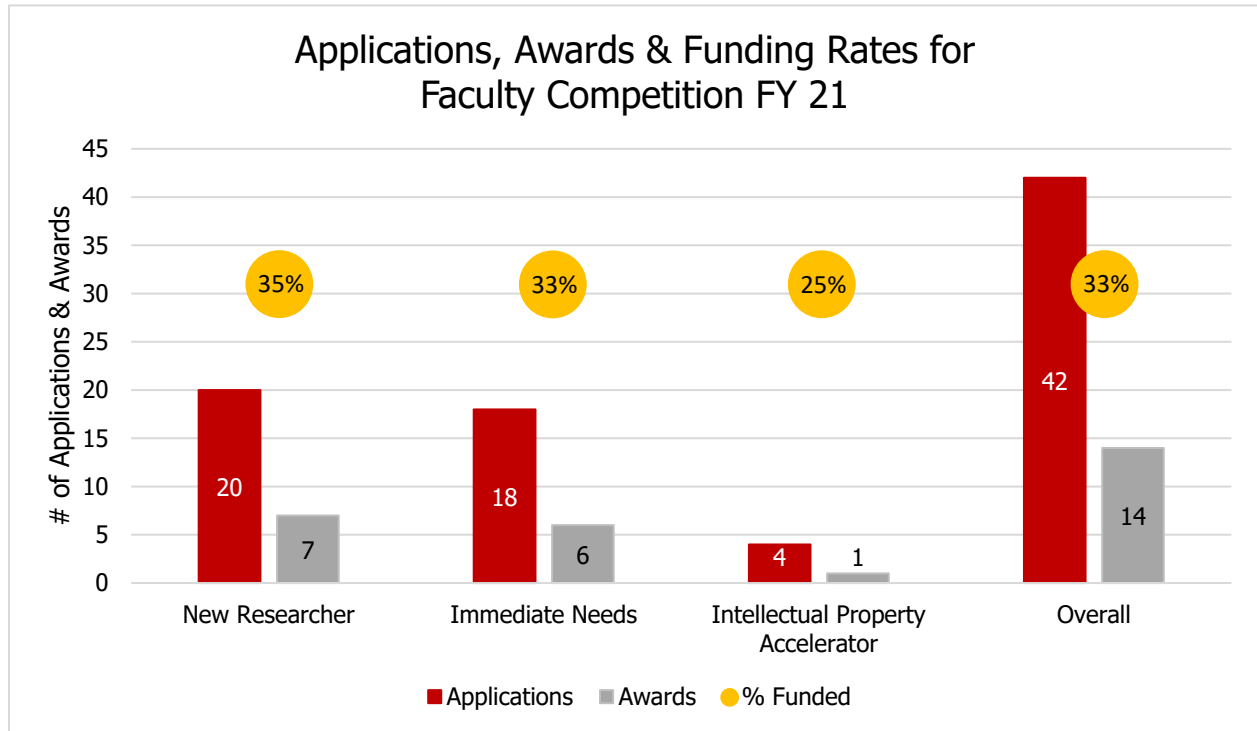


CFAES Internal Grants Program

Fiscal Year 2021 Report



Fiscal Year 2021 Report

Faculty Competition	# of Awards	Total Funding
New Researcher Incentive	7	\$349,362
Immediate Needs	6	\$299,347
Intellectual Property	1	\$24,814
	14	\$673,523

Student Competition	# of Awards	Total Funding
Graduate	10	\$48,988

Rachel Gabor, School of Environment & Natural Resources **New Researcher Incentive** **\$49,562**

Mazeika Sullivan, School of Environment & Natural Resources

The Contribution of Microplastic to the Carbon Budget of Headwater Streams

Melanie Lewis Ivey, Plant Pathology **New Researcher Incentive** **\$50,000**

Sally Miller, Plant Pathology

Pierce Paul, Plant Pathology

Impact of plant health and disease management practices on azole fungicide resistance development in *Aspergillus fumigatus*

Megan Meuti, Entomology **New Researcher Incentive** **\$49,823**

Laura Pomeroy, Environmental Health Sciences

Determining the relative contributions of mosquito biting behavior and seasonal responses in West Nile virus transmission

Risa Pesapane, School of Environment & Natural Resources **New Researcher Incentive** **\$50,000**

William Peterman, School of Environment & Natural Resources

Predict-a-tick: A multi-scale modeling framework for predicting tick distribution and guiding surveillance

Guilherme Signorini, Horticulture & Crop Science **New Researcher Incentive** **\$49,996**

Luis Canas, Entomology

Alex Lindsey, Horticulture & Crop Science

Amanda Bowling, Agricultural Communication, Education, and Leadership

Specialty Crop Growers Attitudes and Motivations Towards Biopesticides

Ryan Winston, Food, Agricultural & Biological Engineering **New Researcher Incentive** **\$49,981**

Sarah Short, Entomology

Protecting Public Health through Vector Control and Stormwater Treatment: Locating Vulnerabilities in Stormwater Infrastructure that Support Mosquito Reproduction

Ye Xia, Plant Pathology **New Researcher Incentive** **\$50,000**

Functional study of the role of the tomato cuticle in conferring defense against biotic stress

Joshua Blakeslee, Horticulture & Crop Science **Immediate Needs** **\$50,000**

Guo-Liang Wang, Plant Pathology

Emmanouil Chatzakis, Food Science & Technology

Identification of novel metabolites for plant resistance

Enrico Bonello, Plant Pathology **Immediate Needs** **\$49,967**

Chris Taylor, Plant Pathology

Micro-biotic DNA and RNA analysis to identify the true cause of beech leaf disease

Timothy McDermott, Extension **Immediate Needs** **\$49,384**

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Risa Pesapane, School of Environment & Natural Resources

Tiny tick as giant threats: Evaluating the risk of tick-borne pathogens to humans and animals in Ohio agriculture

Christopher Tonra, School of Environment & Natural Resources **Immediate Needs** **\$49,996**

Steve Matthews, School of Environment & Natural Resources

Assessing the Risk to Migratory Birds of Offshore Wind on Lake Erie: Prevalence and Spatial Distribution of Lake-Crossing Behavior

Guo-Liang Wang, Plant Pathology **Immediate Needs** **\$50,000**

Venkat Gopalan, Biochemistry

Vicki Wysocki, Chemistry

Exploiting ribonuclease P to engineer fungal-resistant rice and wheat cultivars

Qihong Wang, Food Animal Health Research Program **Immediate Needs** **\$50,000**

Linda Saif, Food Animal Health Research Program

Dehua Pei, Chemistry

Development of novel antiviral drug and vaccine candidates to fight COVID-19

Gireesh Rajashekara, Food Animal Health Research Program **Intellectual Property Accelerator** **\$24,814**

Lactobacillus rhamnosus GG (LGG) and its derived peptides to reduce avian pathogenic Escherichia coli (APEC) and Salmonella infections in poultry

Victoria Abou-Ghalioum, School of Environment & Natural Resources **Graduate** **\$5,000**

Examining Race and Place: Centering Social Justice in the Mainstream Environmental Movement

Aishwarya Badiger, Food Science and Technology **Graduate** **\$4,988**

Redefining milk shelf-life by establishing a volatile threshold based on consumer perception of milk spoilage: A food waste reduction approach

Paige Doklovic, Animal Sciences **Graduate** **\$5,000**

Optimization of Poultry Mortality Composting through Particle Size Reduction and Carbon Amendment

Jordan Hartman, Horticulture & Crop Science **Graduate** **\$5,000**

Are steroidal glycoalkaloids imparting bitterness in tomato?

Harper McMinn-Sauder, Entomology **Graduate** **\$5,000**

Conservation Reserve Program (CRP) land as a nectar resource supporting honey bees in the Ohio agroecosystem

James Radl, Entomology **Graduate** **\$5,000**

Microbiome Specificity between Endemic and Widespread Aedes Mosquitoes

Shahabeddin Rezaei, Human Sciences **Graduate** **\$5,000**

Determining Bioavailability of $\hat{\text{I}}^3$ -tocopherol with An Egg/Plant-Based Food Pairing

Kelsey Ryan-Simkins, School of Environment & Natural Resources **Graduate** **\$5,000**

Connecting the dots: An investigation of how motivations influence urban agriculture practices and outcomes in Ohio

Alden Siperstein, Entomology **Graduate** **\$5,000**

Characterizing seasonal changes in mosquito abundance

Abigail Sommer, Food Science & Technology **Graduate** **\$4,000**

Development of EPA- and DHA-fortified plant milks for use in clinical studies