

## Student Research Award Recipients in 2022

**Sirihaasa Nallamotheu**, University High School, Normal IL  
Predicting Vasovagal Syncope in Patients with Postural Orthostatic Tachycardia Syndrome using Machine Learning Methods

**Hunter Brugler**, Bradley University  
Inducing Neuronal Differentiation in Rat Bone Marrow Mesenchymal Stem Cells Cultured on Coated Polycaprolactone Nanofiber

**Samuel Knebe**, Eastern Illinois University  
Development of Chemical Biology Approaches to Reveal Factors that Influence Carboxylesterase 1 (CES1) Activity in Live Cells

**Brianna Haase**, Eastern Illinois University  
Investigation of Antibacterial Properties of Ferulic and Glucuronic Acids

**Emma Chilcoat**, Southern Illinois University Edwardsville  
The Type VI Secretion System as an Anti-Pathogen Defense Mechanism in Termites

## Student Research Award Recipients in 2021

**Katelynn Fuller-Svarz**, Eastern Illinois University  
Molecular Probe to Detect GCPII Expression

**Carl Namini**, Southern Illinois University-Edwardsville  
Behavioral and Biochemical Characterization of PFOS Toxicity in Fruit Flies

**Madison Chao**, Western Illinois University  
Simultaneous Quantification and Confirmation of all Acidic Non-Steroidal Anti-Inflammatory Drugs in Equine Plasma for Doping Control in Horse Racing by Liquid Chromatography Mass Spectrometry

**Averi Hubert**, University of Health Sciences and Pharmacy in St. Louis  
Expression and Characterization of Novel Plant NADPH P50 Reductases

## Student Research Award Recipients in 2020

**Sara Johnson**, University of Illinois-Urbana/Champaign  
Assessing the Distribution and Reproductive Ecology of a Rare Mint, *Macbridea alba*

**Jessica Derham**, Eastern Illinois University  
Determination of the Functional Significance of Glutamate Carboxypeptidase II in Folate Metabolism in *Caenorhabditis elegans*

**Kristina Springer**, Southern Illinois University-Edwardsville  
Investigation of Epigenetic Alterations in *Drosophila melanogaster* Following Exposure to Sublethal Concentrations of Imidacloprid

**Ana Cvetkovic and Lauren Bode**, North Central College  
Quantifying an Amphibian Pathogen in the Field Using Quantitative PCR

### **Student Research Award Recipients in 2019**

**April Franco**, Western Illinois University  
Identification of Natural Compounds that Induce Immunogenic Cell Death Using a Novel Calreticulin CRT Reporter

**Rebecca Bocian**, Western Illinois University  
Identification of Chemotherapeutic Drugs that Induce Immunogenic Cell Death Using a Novel Calreticulin Reporter

**Katherine Wenzell**, Northwestern University  
Population Genetics of State-Endangered Downy Paintbrush (*Castilleja sessiliflora*): Implications at the Range Edge

### **Student Research Award Recipients in 2018**

**Katherine Kucera**, Northwestern University  
Characterizing genetic changes in the production of multi-source seed lots in *Penstemon pachyphyllus*

**Jocelyn McDonald**, Illinois State University  
Effects of two mechanistically different pesticides on mite infestation and nestling development in European starlings

**Nicholas Roth**, Illinois College  
Dkkopf (dkk) expression in *X. laevis* ocular tissues during cornea-lens regeneration

**Owen Pulver**, Millikin University  
Seroprevalence of West Nile Virus in birds of prey

### **Student Research Award Recipients in 2017**

**Kaysaw Tuy**, Bradley University  
Assessing the lethality of genetically engineered Warton's jelly umbilical cord mesenchymal stem cells co-cultured with HEY cells as a treatment for ovarian cancer

**Daniel Karcher**, Southern Illinois University Edwardsville  
Determining the functions of two predicted dicer genes in the model mushroom fungus *Schizophyllum commune*

**Elyse Schnabel**, Millikin University

The effects of ammonium sulfate fertilizer on cortisol levels in juvenile catfish (*Ictalurus punctatus*)

### **Student Research Award Recipients in 2016**

**Rachel Rodgers**, Southern Illinois University Edwardsville

Phylogenomic analysis of 16 *Fundulus* species using RNA-seq data analysis

**Aaron Alexander**, Southern Illinois University Edwardsville

Factors influencing avian diversity in a chronosequence of restored grasslands

### **Student Research Award Recipients in 2015**

**Morgan Rakers**, Southern Illinois University Edwardsville

Silver nano particles effect on *Schmidtea mediterranea*

**Jessamine Finch**, Northwestern University

Untapped restoration potential: Are city plans pre-adapted to climate change?

**Sarah Kisch**, Millikin University

Muscle relaxant metabolizing differences between male and female mice

### **Student Research Award Recipients in 2014**

**Loren Dunham**, Southern Illinois University Edwardsville

Demography and habitat use in the Southern Flying Squirrel, *Glaucomys volans*, in Southwestern Illinois

**Paul Le**, Southern Illinois University Edwardsville

Avian habitat use in a chronosequence of restored bottomland hardwood forest sites

**Ryan Wenkus**, DePaul University

Linking predator life history trade-offs to levels of stability in predator-prey dynamics

### **Student Research Award Recipients in 2013**

**Jordan Finch**, Southern Illinois University Edwardsville

A study in lead: An analysis of lead exposure in the old lead belt of Southeastern Missouri

**Kelly Ksiazek**, Northwestern University

Can designing green roofs as Illinois prairie analogs increase urban ecosystem services?

## Student Research Award Recipients in 2012

**Kelly Commons**, Millikin University

How does wild bird feeding affect the wild bird community?

**Madeline Knott**, Millikin University

Levels of Interleukin-6 in comparison to *Staphylococcus aureus* bacterial killing ability

**Kendall Annetti**, University of Illinois-Urbana/Champaign

Avian hemoparasites in Illinois and their effects on health

**Grant Woods**, Eastern Illinois University

Geospatial investigation of the occurrence of confluent meander beds in east central Illinois

**Amanda Wildenberg**, Eastern Illinois University

Fish, macroinvertebrate, and mussel community response to sanitary effluent in an Illinois river

**Kayla Little**, Southern Illinois University-Edwardsville

Isotopic composition of bone collagen from Illinois River fishes

**Kate Koepf**, Southern Illinois University-Edwardsville

Habitat preferences of *Fundulus notatus* and *F. olivaceus* in an Illinois stream contact zone

## Student Research Award Recipients in 2011

**Eun Sun Kim**, University of Illinois-Chicago

Investigating potential causes for reproductive failure in sidecluster milkweeds

**Jill Devine**, Southern Illinois University-Carbondale

Analysis of genetic structure of golden mice and white-footed mice using microsatellite markers

**Josiah Miller**, Bradley University

Synthesis and characterization of catalytic noble metal colloids grown within silicone matrices

**Katherine Chi**, University of Illinois-Urbana/Champaign

Effects of shade on reproductive morphology and ecology of the rare plant species *Besseyia bulli*

**Keerthi Chandra**, Eastern Illinois University

Silver modified thin-film  $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$  perovskite-type oxides for oxygen reduction catalysis

**Massimo Pessino**, University of Illinois-Urbana/Champaign

Building a molecular phylogeny of the Stonefly family Perlidae (Plecoptera)

### **Student Research Award Recipients in 2010**

**Witney Banning**, University of Illinois-Urbana/Champaign

**Rebecca Jana**, University of Illinois-Urbana/Champaign

**Kate Springer**, Southern Illinois University-Edwardsville

**Tara Stapay**, Southern Illinois University-Edwardsville

### **Student Research Award Recipients in 2009**

**Mathew Bartucci**, Loyola University

**Sheila Langosch**, University of Illinois-Chicago

**David Zaya**, University of Illinois-Chicago

**Shannon Fredebaugh**, University of Illinois-Urbana/Champaign

**Nathan Fritz**, Charleston High School

**Robert Schorsch**, Southern Illinois University-Edwardsville

**Jenna McAdoo**, Northern Illinois University

### **Student Research Award Recipients in 2008**

**Christine Fleener**, University of Illinois-Urbana/Champaign

**Lewis Reed**, Southern Illinois University-Carbondale

**Benjamin O'Neal**, University of Illinois-Urbana/Champaign

**Rachel Bragg**, Southern Illinois University-Edwardsville

**Jennifer Duggan**, University of Illinois-Urbana/Champaign

### **Student Research Award Recipients in 2007**

**James Castlebury**, Western Illinois University

**Anne Readel**, University of Illinois-Urbana/Champaign

**Lewis Reed**, Southern Illinois University-Carbondale

**Matthew Richardson**, University of Illinois-Urbana/Champaign

**Amber Ruskell**, Western Illinois University

**Nellie Shaul**, Southern Illinois University-Edwardsville

## **Student Research Award Recipients in 2006**

**Emilie Bess**, University of Illinois-Urbana/Champaign

**Bradley Cosentino**, University of Illinois-Urbana/Champaign

**Julie Gibbs**, Southern Illinois University-Edwardsville

**Jason Isbell**

**Sam Kaufman**

**Emily Martin**

**Jace Robinson**

## **Student Research Award Recipients in 2005**

**Sue Gallo**, University of Illinois-Urbana/Champaign

**Chuck Leseberg**, Northern Illinois University

**Jace Robinson**

**Ann Readell**, University of Illinois-Urbana/Champaign

**Vernie Sagun**, University of Illinois-Urbana/Champaign