

Student Research Award Recipients in 2023

Jessica Harris, Eastern Illinois University

The Relationship Between Triclosan Concentration and Antibiotic Resistance Gene Abundances in Central IL Wastewater Treatment

Merve Diler, Eastern Illinois University

The Role of Msx1 and PurA on Fibroblast Identity

Brianna Haase, Eastern Illinois University

Investigation of CH₄ Activation on Modified Metalloporphyrin Graphene Sheets

Sahar Rashid, Southern Illinois University Edwardsville

Does Cigarette Smoke or E-Cigarette Vapors Affect Growth and Biofilm Formation of *Aggregatibacter actinomycetemcomitans*?

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

Dikkopf (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 Koepp, 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 Readell, 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 Readel, University of Illinois-Urbana/Champaign

Vernie Sagun, University of Illinois-Urbana/Champaign