

Summer Undergraduate Research Symposium 2015 Category Winners and Runner Ups

Biological & Health Sciences Category (31 posters)

Winner: *The effects of endogenous serotonin levels of olfactory behavior in Drosophila melanogaster.* **Sarah Michaels** & Andrew Dacks. (Sarah, a biology major at WVU, was a participant in the STEM SURE site.)

Runner Up: *Involvement of JAK2, STAT1 and STAT3 in endoplasmic reticulum stress-induced inflammation.* **John Nowery**, Lauren Corella & Gordon Meares. (John, an immunology and medical microbiology major at WVU, was a participant in the WVU Honors administered SURE site.)

Runner Up: *Determining the role of Jnk3 in the migration of cortical interneurons during development.* **Kelly Stake**, Abigail Myers & Eric Tucker. (Kelly, a biology and psychology double major at WVU, was a participant in the WVU Honors administered SURE site.)

Agricultural & Environmental Sciences Category (18 posters)

Winner: *Self-sustaining production of Miscanthus x giganteus in West Virginia climate.* **Jordan Masters** & Eugenia Pena-Yewtukiw. (Jordan, a horticulture major at WVU, was a participant in the STEM SURE site.)

Runner Up: *Intravenous nicotinic acid infusions: suppresses adipose tissue lipolysis in Holstein dairy cattle.* **Jessica Leigh Clegg** & J. W. McFadden. (Jessica, an animal and nutritional sciences major at WVU, was a participant in the WVU Honors administered SURE site.)

Runner Up: *Investigation of dihydroergot alkaloid biosynthesis.* **Stephanie Arnold** & Daniel Panaccione. (Stephanie, a biochemistry major at WVU, was a participant in the WVU Honors administered SURE site.)

Physical Sciences & Engineering Category (30 posters)

Winner: *On r-hued coloring of polar and sparse graphs.* **Kate Lorenzen, Joshua Thompson, Rong Luo, Hong-Jian Lai, Cun-Quan Zhang & Jian Cheng.** (Kate and Joshua, mathematic majors at Juanita College and Iowa State University, respectively, were participants in the Graph Theory and Combinatorics Math REU site.)

Runner Up: *Kinetic simulations of magnetic reconnection at Earth's magnetic field.* **Christopher Doss** & Paul Cassak. (Christopher, a physics and computer science double major at WVU, was a participant in the WVU Honors administered SURE site.)

Runner Up: *Understanding copper-catalyzed oxidative decarboxylative coupling through the reactivity of copper benzoates.* **Katelyn Bustin**, Corrie Burlas & Jessica Hoover. (Katelyn, a chemistry major at WVU, was a participant in the WVU Honors administered SURE site.)

Summer Undergraduate Research Symposium 2015
Category Winners and Runner Ups
Nanoscience Category (26 posters)

Winner: *Bionano-enzyme conjugates with bacterial decontamination capabilities.* **Andrew Maloney**, Alan Campbell & Cerasela Zoica Dinu. (Andrew, a chemical engineering major at WVU, was a participant in the STEM SURE site.)

Runner Up: *Hydrogel encapsulation to preserve enzyme functionality.* **Jordan Chapman & Cerasela Zoica Dinu.** (Jordan, a chemical engineering major at WVU, was a participant in the STEM SURE site.)

Runner Up: *Relative toxicity initiated by occupational particle exposure to RAW 264.7 cells.* **Emily Fabyanic**, Anna Morris, Katherine Dunnick, Melissa Badding & Stephen Leonard. (Emily, a chemistry and forensics double major at WVU, was a participant in the STEM SURE site.)

Social Science Category (7 posters)

Winner: *The influence of disgust sensitivity on sociopolitical values.* **Shelby Boggs**, Cameron Ford & Natalie Shook. (Shelby, a psychology and criminology double major at WVU, was a Participant in the STEM SURE site.)



Category winners and runner ups of the 2015 Summer Undergraduate Research Symposium held at West Virginia University on July 23, 2015.