

## Student Presentation Awards at the 2016 Collegiate Division Meetings

**Middle Region**  
Belmont University  
Nashville, Tennessee  
16 April 2016

### Oral Presentation Winners

#### Chemistry

- First Place—*Daniel Beagan*. Synthesis, characterization, and reactivity of various imine nickel(II) complexes. *Belmont University, Nashville, Tennessee.*
- Second Place—*Shekinah Baum*. Antioxidant activity in Matcha and leaf-brewed green teas. *Belmont University, Nashville, Tennessee.*
- Third Place (tie)—*Rukiayah Warner*. Acid-base interactions mediate formation of the S100B-RAGE complex. *Fisk University, Nashville, Tennessee.*
- Libby Ligon*. Determination of the activation energy of the rate-limiting step of the Fenton reaction. *Belmont University, Nashville, Tennessee.*

#### Cellular and Molecular Biology

- First Place—*Alexandra Ruff*. Characterization of olfactory dependent behaviors in the Florida carpenter ant *Camponotus floridanus*. *Vanderbilt University, Nashville, Tennessee.*
- Second Place—*Alyssa Tidwell*. The effectiveness and precision of capillary assays for *Caenorhabditis elegans*. *Belmont University, Nashville, Tennessee.*
- Third Place—*Kathryn Hook*. The subcellular localization of the apoptosis signaling kinases ASK1 and ASK3 influence signalosome formation and composition in response to cellular stress. *Belmont University, Nashville, Tennessee.*

#### Health and Medical Sciences

- First Place—*Parker Tumlin*. Determining *C. elegans* attraction to cervical cancer to expand on the nematode

scent detection test – a cancer screening system. *Belmont University, Nashville, Tennessee.*

Second Place—*Araceli Garland*. Effects of tricyclic antidepressants on working memory in *Danio rerio*. *Belmont University, Nashville, Tennessee.*

Third Place—*Brandy Sweet*. Endogenous anandamides as anxiolytics in *Danio rerio*. *Belmont University, Nashville, Tennessee.*

#### Math/Computer Science/Physics

- First Place—*Sharee Brewer*. A predator-prey model for food-web in a lake. *Fisk University, Nashville, Tennessee.*
- Second Place—*Ashley Davis*. A predator-prey model for food-web in a lake. *Fisk University, Nashville, Tennessee.*
- Third Place (tie)—*Howsikan Kugathanan*. A case study in teaching Calculus I with economics model. *Fisk University, Nashville, Tennessee.*
- Gwendolyn Buchanan*. The scintillator-layered imaging microscope for environmental research. *Tennessee Technological University, Cookeville, Tennessee.*

**Western Region**  
Rhodes College  
Memphis, Tennessee  
2 April 2016

### Oral Presentation Winners

**Biological Sciences:** Katherine Robinson  
**Health & Medical Sciences:** Chelsea Casaccia  
**Math & Physics:** Phoebe Sharp

### Poster Presentation Winners

**Biological Sciences:** Jacob Hartline  
**Math & Physics:** Shushangxuan Li