



Poster Competition

Chair: Melissa Moss

Judges & Reviewers

Angela Pannier

Ben Stuart

Charlie Miller

Tarek Shazly

Alyssa Henning

Jing Lu

Yue Cui

Mark Riley

Kaustubh Bhalerao

Charly Kinoshita





Poster Competition

Undergraduate Award Winners






Undergraduate - Third Place

Evan Buettmann, Ryan Prsha, Daniel Els, Katie Hocker; Matt Cozad, Dave Grant, Sheila Grant,
(University of Missouri, Columbia)

Development and characterization of a polycaprolactone/soy lecithin electrospun adhesion barrier

University of Missouri, Columbia





Undergraduate - Second Place

Sean Kearney, Joe Bretzmann, Madeline Cox,
Emilia Czyszczon, Mark De La Croix, Kayla
Fouch, Jonathan Gritzer, Sean Hendrix

**Isolation, characterization, and genomic
comparison of MrGordo, a novel soil-derived
mycobacteriophage**

Purdue University





Undergraduate - First Place

Brittani Bungart, Jui-Heng, Will Reed,
James C-M Lee, Melissa Moss (mentor)

**Inhibiting the formation of amyloid-&beta
fibrils using isoflavones with increasing
hydroxyl functionalization**

University of South Carolina





Undergraduate – Grand Prize Sponsored by KSBB

Madeline Porterfield (Purdue University), Eric
McLamore, Prachee Chaturvedi, Masashige
Taguchi, Stephanie Burrs, Katelyn Ward

**The use of nanoparticles in the detection of
microcystin-LR with electrochemical sensors**



Purdue University & University of Florida





Poster Competition

Graduate Award Winners





Graduate - Third Place

Utsav Agrawal, Eric M. Johnson- Chavarria,
Melikhan Tanyeri, Charles M. Schroeder

**Investigating the effects of dynamic external
stimuli on single cell fitness and gene
expression in Escherichia coli**

University of Illinois at Urbana- Champaign





Graduate - Second Place

Arnab Mukherjee, Kevin Weyant,
Charles M. Schroeder

**Directed evolution of bright mutants of a
flavin-binding oxygen-independent
fluorescent reporter protein from
*pseudomonas putida***

University of Illinois at Urbana Champaign





Graduate - First Place

Joshua Ellis, Cody Tramp, Ronald C. Sims,
Charles D. Miller

**Metagenome analysis of a methanogenic
community within an algae fed anaerobic
digester**

Utah State University





Graduate – Grand Prize
Sponsored by KSBB

Paul Kenis, Ritika Mohan, Arnab Mukherjee,
Jaebum Lee, Emre Sevgan,
Charles M. Schroeder

**A multiplexed microfluidic platform for
antibiotic susceptibility screening**



University of Illinois at Urbana Champaign





High School – Honorable Mention


Ayodele Dechinea

Katherine De Paz

Sophia Powell

Uniondale High School





High School - First Place Tie

Manuel Flores-Bonilla

Elizabeth Osei

**Photoluminescent
Evolution of Zinc Oxide
Nanoparticles in PLC6
Media**

**The impact of bio-
plastic secretion on
cell viability**

Uniondale High School

Uniondale High School

