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# 41<sup>ST</sup> ANNUAL TENNESSEE STATE UNIVERSITY-WIDE RESEARCH SYMPOSIUM PRESENTATION COMPETITION WINNERS

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## ORAL PRESENTATIONS

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### GRADUATE AGRICULTURAL AND ENVIRONMENTAL SCIENCES I

- 1<sup>ST</sup> PLACE Effect of biochar and nitrogen fertilizer on soil health characteristics in a switchgrass production system Priya Saini
- 2<sup>ND</sup> PLACE The effects of nitrogen fertilizer rates and winter canola cultivars on winter mortality and canopy coverage for two growing seasons in Middle TN Kyle McGearry
- 3<sup>RD</sup> PLACE Evaluation of growth promoting bacteria for sweet pepper production Bandana Bhusal, *Steve Osborne*
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### GRADUATE AGRICULTURAL AND ENVIRONMENTAL SCIENCES II

- 1<sup>ST</sup> PLACE Spatial Ecology of Eastern Hellbenders Prior to Translocation Bradley Nissen, *Emilly Nolan*
- 2<sup>ND</sup> PLACE Evaluation of Row Covers in Yield Performance of the Leafy Green Vegetables in Organic Management System Kripa Dhakal
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### GRADUATE COMMUNITY AND SOCIAL SCIENCES

- 1<sup>ST</sup> PLACE Physical Therapy and Regenerative Medicine: Current Knowledge and Future Prospects Vance Pounders, Sarah McArthur, Julian Rinehart, Ryan McQueen, Melinda Roca-Menchavez
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### GRADUATE ENGINEERING

- 1<sup>ST</sup> PLACE (TIE) The Saffir-Simpson Scale: Simple, Straightforward, and Insufficient Kyra Bryant
- 1<sup>ST</sup> PLACE (TIE) Evaluation of Freight Fluidity Along FICs Suleiman Swai
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### GRADUATE LIFE AND PHYSICAL SCIENCES

- 1<sup>ST</sup> PLACE SKP2 Inactivation Suppresses Cell Proliferation and Regulates AR/FOXA1 Expression in Prostate Cancer Cells Sherly Celada, *Robert Matsik, Wenfu Lu, Guoliang Li, Thanigaivelan Kanagasabai*
- 2<sup>ND</sup> PLACE Impacts of prescribed fire and forest thinning on tick populations and prevalence of tick-borne diseases in a southeastern mixed pine forest Brent Newman
- 3<sup>RD</sup> PLACE Introducing fluorine moiety by cross-coupling chemistry Rebecca Welch
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(ORAL PRESENTATIONS CONTINUED)

UNDERGRADUATE AGRICULTURAL AND LIFE SCIENCES

1 <sup>ST</sup> PLACE	Exposure of human immune cells to Triclosan alters synthesis of IFN $\gamma$	Farah Ismail, <i>Wendy Wilburn</i>
2 <sup>ND</sup> PLACE	Triclosan alters the ability of human immune cells to synthesize TNF alpha	Sara Jamal
3 <sup>RD</sup> PLACE	Effects of Precipitation Treatments on Switchgrass Biomass and Yield	Dilovan Yahya, <i>Adrian Harris, Dalal Hamad</i>

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UNDERGRADUATE ENGINEERING

1 <sup>ST</sup> PLACE	Design of an Impact of Jet Device for Undergraduate Laboratory	Abdullah Alotaibi, Amal Abdullahi, Ali Al Ibrahim
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**POSTER PRESENTATIONS**

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GRADUATE POSTERS

1 <sup>ST</sup> PLACE	Inactivation of wild-type and pressure-stressed Shiga toxin-producing Escherichia coli at planktonic and sessile stages	Monica Henry
2 <sup>ND</sup> PLACE	United States vs. Scandinavia: A comparison of functional outcomes for individuals with ACL injury.	Ben Moroney, Brent Coleman, Audrey Powers, Killian Barry
3 <sup>RD</sup> PLACE	Effects of Tributyltin Exposures on Translation Regulation in Human Immune Cells	Amanda Ruff, <i>Shyretha Brown</i> , <i>Nafisa Hamza</i>

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UNDERGRADUATE POSTERS

1 <sup>ST</sup> PLACE	Signaling Pathways Involved in Pentachlorophenol Induced Elevations of Interleukin-6 Synthesis	Sahra Gabure
2 <sup>ND</sup> PLACE	Flame Retardant, Hexabromocyclododecane, Alters Secretion of Interleukin 6 from Human Immune Cells	Elizabeth Shelby, <i>April Falconer</i>
3 <sup>RD</sup> PLACE	Examining distribution of farms involved in agritourism activities in Tennessee: Location, activity types, and factors	Emmanuel Wallace, <i>Ummey Honey</i> , Michael Crawford

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*Italicized names indicate an author who did not present in the competition.*

**FACULTY ADVISOR AWARD (given to the advisor with the most winning student presentations)**

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Dr. Margaret Whalen	1st & 2nd Place Undergraduate Agricultural and Life Sciences, 3rd Place Graduate Poster, and 1st & 2nd Place Undergraduate Poster
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