

**15<sup>th</sup> Thomas Undergraduate Research and Creativity Expo**  
**WEDNESDAY, April 21, 2021**  
**9:30 – Noon**

<b>STEM</b>	<b>Presenter(s) Last Name</b>	<b>First Name</b>	<b>Presentation</b>
9:30 AM	Godwin	Julia	<a href="#"><u>Effects of grandparental Embryonic Bisphenol A Exposure on the Liver of Grandchildren of Medaka Fish</u></a>
9:41 AM	Gora	Sarah	<a href="#"><u>Legume-rhizobia symbiosis: how do plant traits influence number of nodules in the Longleaf pine</u></a>
9:52 AM	Hu	Min	<a href="#"><u>Upregulation of Anaerobic Glycolysis in a Remarkably Hypoxia-tolerant Neural Circuit</u></a>
10:03 AM	Jolin	Ashley	<a href="#"><u>Invasion effects on insect diversity in grasslands</u></a>
10:14 AM	Kihuwa-Mani	Sky	<a href="#"><u>Use It or Lose It? Maybe Not: Enhanced excitability and fatigue resistance in breathing muscle after a month-long apnea in bullfrogs.</u></a>
10:25 AM	LaBonte	Peyton	<a href="#"><u>Constitutive expressing of <i>Picrophilus torridus</i> Superoxide Dismutase (PtSOD) in tobacco</u></a>
10:36 AM	Lyons	Jade	<a href="#"><u>Overexpression of <i>Arabidopsis thaliana</i> PSY gene in cassava for enhanced carotenoid biosynthesis</u></a>
10:47 AM	Mann	William	<a href="#"><u>Comparing arthropod diversity differences in two arthropod sampling methods</u></a>
10:58 AM	Mathewson Weidman	Arianna Drake	<a href="#"><u>Mitigation of Glyphosate-induced Developmental Defects in Medaka Fish</u></a>
11:09 AM	Nelson	Caroline	<a href="#"><u>Understanding the Beneficial Effects of the Flavonoid Naringenin in the Treatment of Breast Cancer</u></a>
11:20 AM	Osareh Settle	Melika Alexandra	<a href="#"><u>Analysis of Gravitropism in Natural Populations of the Plant <i>Arabidopsis thaliana</i></u></a>
11:31 AM	Pellizzari	Sarah	<a href="#"><u>Identifying and Characterizing a New Gene Involved in Sister Chromatid Cohesion in <i>Drosophila</i></u></a>
11:42 AM	Pitts	Shaun	<a href="#"><u>Reprogrammable CRISPR-dCas9 method for epigenome editing</u></a>
11:53 AM	Reh	Beh	<a href="#"><u>Effect of Potassium Perchlorate on developing Medaka Primordial Germ Cells</u></a>

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**THURSDAY, April 22**  
**9:30 - Noon**

<b>STEM</b>	<b>Presenter(s) Last Name</b>	<b>First Name</b>	<b>Presentation</b>
9:30 AM	Roe	Kaleigh	<a href="#"><u>Bionengineering Cassava for Increased Vitamin A Expression</u></a>
9:41 AM	Morris	Dylan	<a href="#"><u>Early Analgesics in Antikamnia and Bromo-Seltzer: The Chemical Compositions of Two Proprietary Headache Remedies</u></a>
9:52 AM	Obike	Jennifer	<a href="#"><u>Media and Strain Study for Enhanced Production of Cis-enone Resorcylic Acid Lactone</u></a>
10:03 AM	Onokalah	Chioma	Asymmetric Synthesis of Lactams via Brønsted Acid Cyclization
10:14 AM	Roberts	Chris	<a href="#"><u>Variation in secondary metabolite production among Aspergillus spp.</u></a>
10:25 AM	Shepherd	Robert	<a href="#"><u>Mycology vs. Malaria: The Use of Fungal Natural Products to Battle Malaria-Causing Plasmodium falciparum</u></a>
10:36 AM	Youngblood	Kala	<a href="#"><u>Synthesis of Lactones via Novel Pinner Reaction Conditions</u></a>
10:47 AM	Kawabata	Andrew	<a href="#"><u>Robustness of Graph Sparsification to Adversarial Attacks</u></a>
10:58 AM	Salou Doudou	Nadia	<a href="#"><u>Design Space for Hypergraph Neural Networks</u></a>
11:09 AM	Lytle	Aidan	<a href="#"><u>Novel Computational Methods for Jet Detection in Heavy Ion Collisions</u></a>
11:20 AM	Blackburn	George	<a href="#"><u>Biological Sex Mediates Cancer Cachexia Muscle Autophagy</u></a>
11:31 AM	Hutcherson	Shena	<a href="#"><u>Fitness, Cognition, and Brain Functional Connectivity in Identical Twins from the Human Connectome Project</u></a>
11:42 AM	McGilvary Quiroa	Matthew Juan	<a href="#"><u>Empirical Study of Simplex Algorithm using Classic Pivot Rules</u></a>