



Louisville Regional Science & Engineering Fair

P.O. Box 8184
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lrsef.org

LRSEF Virtual Fair 2021 High School Best of Fair and First Build Innovation Awards

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GE Best of Fair Award – Trophy and \$420 each and Finalists for the Regeneron International Science Fair (ISEF) (*in no order*)

Samyuktha Jaganathan - Ballard High School Science & Engineering Fair
Does Brain Region Volume Change in Patients with Dementia?

Aditi Kona - North Oldham High School

Characterization of Insulin-degrading Enzyme: Using Molecular Visualization Systems to Understand Substrate Recognition in Type 2 Diabetes and Alzheimer's

Andrew Park - Gatton Academy of Science & Mathematics
An Algorithm to Estimate Lithium-Ion Battery Lifetime

Samirah Salifu - Gatton Academy of Science & Mathematics
The Discovery, Analyzation, and Characterization of Novel Mycobacteriophage PetiteSangusue

Jason Zhang - Gatton Academy of Science & Mathematics
Novel Synthesis of Important Pharmaceutical Compounds using Visible Light and a Photocatalyst

First Build Innovation Scholarship Award – 11th/12th grade only—*first time to be awarded*

Veenasravani Pendyala - North Oldham High School -
The Effects of Acetaminophen on components of the Gut Microbiome

Samuel Smallwood - Central High School - Smart Home Control

