

LRSEF 2021 - Virtual Fair - General Award Script - Middle School

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Animal Sciences

3rd Place

Sophie Garrett - J Graham Brown Middle School

Taste, Smells, & Temperature: Do They Matter to Dogs?

2nd Place

Olive Zitzer - Saint Francis of Assisi, Louisville

The Effect of Sucralose on Minnows

1st Place

Jacob Mulvihill - Saint Francis of Assisi, Louisville

The Effect of COVID-19 on Gorilla Behavior

Behavioral and Social Sciences

3rd Place

Bianca Cristobal - Saint Francis of Assisi, Louisville

Finding anxiety from coronavirus and pods

2nd Place

Owen Singer - Saint Francis of Assisi, Louisville

Exploring how COVID-related stress affects reaction time and symptoms

1st Place

Brian Bouldin - Saint Francis of Assisi, Louisville

Measuring Depression in Adults During the Era of COVID-19

Biochemistry

3rd Place

Jarren Patton - Du Bois Academy

Antibacterial Weaponry

2nd Place

Ellery Reynolds - Saint Francis of Assisi, Louisville

Exploring and Remediating Vinyl Flooring Genotoxicity with Kentucky Plant Extracts

1st Place

Agnes Loeser - Saint Francis of Assisi, Louisville

Discovering the Effects of Ragweed on Amylase

Biomedical and Health Sciences

3rd Place

Lucy O'Brien - J Graham Brown Middle School

Effects of Music on Heart Rate

2nd Place

Vivien Englund - J Graham Brown Middle School

Effect of Blueberries on Children's Short- Term Memory

1st Place

Leah Niemann - Saint Francis of Assisi, Louisville

Exploring Neurotoxin Shed and Neuroprotective Treatment

Biomedical Engineering

3rd Place

Ester Line - Saint Francis of Assisi, Louisville

Factories Effecting Forehead Temperature, Thermometer Readings, and Accuracy

2nd Place

Maryam Alsaadi - Nur Islamic School of Louisville

The Effect of Beehive Wax Frame on The Human Brain While Sleeping

1st Place

Laura Petruska - Saint Francis of Assisi, Louisville

Comparing Different Hydrogels to Make Axonal Conduits

Cellular and Molecular Biology

3rd Place

Sarah Jenkins - Saint Francis of Assisi, Louisville

E-cigarettes: Exploring Negative Health Impacts Across Future Generations

2nd Place

Emerson Wyatt - Saint Francis of Assisi, Louisville

The Potential Synergistic Effects of Rose and Umibudo on a Representation of Cancer

1st Place

Hayden Ramsey - Saint Francis of Assisi, Louisville

Carpet Stain Protector; Source of Stem Cell Dysfunction in Children?

Chemistry

3rd Place

Maxwell Holtgrave - Saint Francis of Assisi, Louisville

EXPLORING THE DURABILITY OF COOKING OILS

2nd Place

Aicha Faiz - Nur Islamic School of Louisville

Adsorption; Dyeing Fabrics with Kool-Aid

1st Place

Liam Amick - Saint Francis of Assisi, Louisville

Exploring the Creation of Sodium Lauryl Sulfate Remediation Products

Computational Biology and Bioinformatics

2nd Place

Jason Millard - Saint Francis of Assisi, Louisville

Exploring Differences in Gene Expression of Lung Cancer

1st Place

Jacob Holtgrave - Saint Francis of Assisi, Louisville

EXPLORING LATERALITY OF CANCER ON DIFFERENT PARTS OF THE FACE WHILE DRIVING

Earth and Environmental Science

3rd Place

Joe Jaso - Saint Francis of Assisi, Louisville

Exploring the Velocity of Downslope Fires

2nd Place

Jackson Briley - Saint Francis of Assisi, Louisville

Effect of Foliage and Sound Barriers on Near Road Pollution Levels

1st Place

Alice Vella - Saint Francis of Assisi, Louisville

Microfibers and Their Impact On Soil Dynamics

Embedded Systems

2nd Place

Rihaan Kapoor - Saint Francis of Assisi, Louisville

A Functional COVID-19 Mask Which Monitors and Predicts Illness

1st Place

Fahmeeda Mohammad - Nur Islamic School of Louisville

RFID Readers - Protect Your ID Card from Theft

Energy: Sustainable Materials and Design

3rd Place

Finn Oetken - Saint Francis of Assisi, Louisville

Exploring Ultrasound on the Production of Ethanol from Cellulose

2nd Place

Annika Chadha - Noe Middle

Hydrogen production through electrolysis of water using alkaline battery, photovoltaic solar panel, and organic anthocyanin solar battery

1st Place

Leo Reinhart - Saint Francis of Assisi, Louisville

Using Piezoelectric Devices to Harness Pipe Outflow Energy

Engineering Mechanics

3rd Place

Meredith Elder - Saint Francis of Assisi, Louisville

Does Building Shape Affect Heat Absorbance and Wind Resistance?

2nd Place

Luke Conway - Saint Francis of Assisi, Louisville

the effect of tubercles and or extensions on a submarines skin friction

1st Place

Mason Nunn - Saint Francis of Assisi, Louisville

Earthquakes; Exploring the Effects of Liquid Density on Liquefaction.

Environmental Engineering

3rd Place

Rhyse Johnston - Saint Francis of Assisi, Louisville

Radon Mitigation; Remediating a Potential Health Threat

2nd Place

Josie Dunn - Saint Francis of Assisi, Louisville

Textile Dye Remediation Using Fish Bones

1st Place

Julia Keeney - Saint Francis of Assisi, Louisville

Exploring Carbon Scrubbing with Different Materials

Materials Science

3rd Place

Isaac Stroud - Saint Francis of Assisi, Louisville

Creating Fire Retardant CO2 Scrubbing Hydrogels

2nd Place

Sophie Fabing - Saint Francis of Assisi, Louisville

Creating a Photothermal Coating using Carbonized Biomaterials

1st Place

Eli Oetken - Saint Francis of Assisi, Louisville

Creating Bricks from Different Insulations

Mathematics

2nd Place

Gus Reinhart - Saint Francis of Assisi, Louisville

Mathematical Analysis of Covid-19 Positive Case Data Using the Fibonacci Sequence

1st Place

Max Longmeyer - Saint Francis of Assisi, Louisville

Fractal Analysis of Lightning Strikes: Same Storm vs. Same Terrain

Microbiology

3rd Place

Kate Stewart - Saint Francis of Assisi, Louisville

Do We Know What We're Buying; Exploring Kombucha's Bacterial Contents?

2nd Place

Neil Patil - Louisville Classical Academy

The Mouthwash Wars: Which Mouthwash is the Most Effective Disinfectant for Toothbrushes?

1st Place

Mary Ballantine - Saint Francis of Assisi, Louisville

Ohio River Water: Creating a Selective Environment for Pathogenic Bacteria

Physics and Astronomy

3rd Place

Nora McDonald - Grace M. James Academy

Does the price of sunglasses affect the amount of UV protection it has?

2nd Place

Gavin Thomson - Saint Francis of Assisi, Louisville

Predicting fluid Pressure Using Sound Patterns

1st Place

Penelope Harris - Saint Francis of Assisi, Louisville

Exploring How Weathering and Temperature Affect the Performance of Golf Balls

Plant Sciences

3rd Place

Eva Donis - Saint Francis of Assisi, Louisville

Does Plastic Leachate Affect the Germination and Growth of Plants?

2nd Place

Drew Koon - Saint Francis of Assisi, Louisville

Exploring Plant Decision Making in Phototropism vs. Gravitropism

1st Place

Iris Apple - Saint Francis of Assisi, Louisville

Exploring Auditory, Learning, and Memory in Plants

Robotics and Intelligent Machines

1st Place

Eric Kim - J Graham Brown Middle School

Robotic Basketball Shooter

Systems Software

3rd Place

Kevin Brothers - Saint Francis of Assisi, Louisville

Found: Reuniting Families Using Facial Recognition

2nd Place

Louie Murr - Saint Francis of Assisi, Louisville

Using AI to Improve Students Attentiveness In Online Learning

1st Place

Shazia Shaik - Nur Islamic School of Louisville

Driver Drowsiness Detection

Translational Medical Science

3rd Place

Harrison Jeffreys - Saint Francis of Assisi, Louisville

Do Artificial Sweeteners Create AGEs and Affect Stem Cell Function in Children

2nd Place

Drew Ashley - Saint Francis of Assisi, Louisville

Airflow Modeling: The Removal of COVID-19 in Classrooms

1st Place

Charlotte Connally - Saint Francis of Assisi, Louisville

Kentucky Native Plant Mugwort Extract and Magnets: Adjunct Cancer Therapy