Category and Rank	Name	School	Project Title
Behavioral & Social Sciences - First Place	Sierra Sun	The Waterford School	A Behavioral Study of COVID-19 Public Health Messaging: Self Interest, Vulnerability, and Racial Bias
Behavioral & Social Sciences - Second Place	Corinne Simao	Juan Diego Catholic High	A qualitative evaluation of educational retention of postgraduate practicing pharmacists in leadership and advocacy advanced pharmacy practice experience
Behavioral & Social Sciences - Third Place	Susan Arcos-Flores & Nathan Flores	Salt Lake Center for Science Education (SLCSE)	Latino Disparities In High School's Mental Health Resources and Distribution
Biology & Microbiology - First Place	Megan Tandar	West High	Repressed Autophagy in Aging is Associated with Blood-Brain-Barrier Permeability and Changes in Blood Vessel Thickness
Biology & Microbiology - Second Place	Krishnam Goel	West High	Microbiology of Virus and Bacterial Interactions with Silver Nanoparticles for Therapeutic Purposes
Biology & Microbiology - Third Place	Priyanka Mathews	Hillcrest High	Identifying Lead Compounds for Cyanobacterial Quorum Sensor Inhibitors for Use in Harmful Algal Bloom (HAB) Control through Deep Learning Methods
Biology & Microbiology - Fourth Place	Riya Soneji	West High	Developing a Phage Library to Identify Potential Coronavirus D-Peptide Inhibitors
Chemistry & Biochemistry - First Place	Dora Meiwes	West High	Investigating the Properties of Paint Binders and Their Applications
Chemistry & Biochemistry - Second Place	Nathaniel Bean	Juan Diego Catholic High	The Biosynthetic Production of Terpene Precursor in Escherichia coli and Saccharomyces cerevisiae for use in the Chemical Synthesis of Eleutherobin
Chemistry & Biochemistry - Third Place	Emma Baker	Juan Diego Catholic High	cBIN1-Regulated T-Tubule Protein Distribution and Localization in Cardiomyocytes
Chemistry & Biochemistry - Fourth Place	Ethan Mouritsen & Hudson Clark	Grantsville High	Melting Metals
Civil & Environmental Engineering - First Place	Ruchi Agarwal	Rowland Hall	Water Scarcity in Arid West: What is the Role of Harmful Algal Blooms?
Civil & Environmental Engineering - Second Place	Felix Keil	City Academy	Colonizing The Arctic: Our Last Great Hope
Computer Science & Applied Computational Methods - First Place	Yaniv Taussky	West High	Simulating Prey and Predator Evolution
Computer Science & Applied Computational Methods - Second Place	Aaron Wang	Skyline High	A Deep Learning Model to Forecast the Impact of COVID-19 on Traffic Demand in Salt Lake County
Computer Science & Applied Computational Methods - Third Place	Jayashabari Shankar	Hillcrest High	Human Coronaviruses: Unique Viruses that do not follow Syzbalski's Rule and have a High Composition of Adenine-Thymine Bonds
Computer Science & Applied Computational Methods - Fourth Place	Vishwa Murugappan	Hillcrest High	Surface Curvature Analysis of Digital Breast Tomosynthesis Images for Breast Cancer Detection
Earth & Environmental Sciences - First Place	Aarav Parikh	Hillcrest High	Growth Analysis and Cultivation of Algae Using Rotating Algae Biofilm Reactors
Earth & Environmental Sciences - Second Place	Zejun Li	West High	Imaging Calcite in Trilobite Lenses Using Confocal Raman Microscopy
Earth & Environmental Sciences - Third Place	Hazel Wilde	Salt Lake Center for Science Education (SLCSE)	Exploring Golden Eagle Diets Through Isotopes
Electrical Engineering - First Place	Jameson Thackeray	Murray High School	Geo-Thermoelectric Generator
Energy: Chemical & Physical - First Place	Gates Washburn	Grantsville High	Amateur Rocketry
Energy: Chemical & Physical - Second Place	Parker Webb & Racer Bishop	Stansbury High School	The Gutter Wheel
Energy: Chemical & Physical - Third Place	Diego Escobar & Maximillian Therriault	Salt Lake Center for Science Education (SLCSE)	Fast Food Fuel
Mechanical & Materials Engineering - First Place	Marianne Liu	West High	Employing the DiSCoVeR Machine Learning Algorithm to Discover New Novel High-Performing Superhard Materials
Mechanical & Materials Engineering - Second Place	Evan Weinstein & Aiden Gandhi & Eli Hatton	Rowland Hall	Engine-ering the Future of Air Travel

Mechanical & Materials Engineering - Third Place	Ellis Chalker & Collin Stanley	Salt Lake Center for Science Education (SLCSE)	Mechanical Knee Exoskeleton
Mechanical & Materials Engineering - Fourth Place	Joseph Staker	Stansbury High School	Fruit Infuser water bottle
Medicine, Health Sciences, & Biomedical Engineering - First Place	Mercedes Randhahn	St. Joseph High School	Investigating the Cytotoxicity of Centella asiatica Methanolic Leaf Extracts on MDA-MB-231 Human Breast Cancer Cells
Medicine, Health Sciences, & Biomedical - Second Place	Sowmya Paritala & Saisha Vankayalapati	Hillcrest High	Development of Novel, Selective, Orally Available Small Molecule CDK-9 Inhibitors for Prostate Cancer Therapy - Mechanistic studies
Medicine, Health Sciences, & Biomedical Engineering - Third Place	Sharayu Senthilkumar	West High	The Effect of Sonication Duration on MR-guided focused ultrasound (MRgFUS) Lesion Size and Accuracy
Medicine, Health Sciences, & Biomedical Engineering - Fourth Place	Brendon Young	West High	Exploring the Effects of a Point Mutation in the 5' UTR of APC Discovered in a Patient
Physics, Astronomy & Math - First Place	Lukas Mesicek	Salt Lake Center for Science Education (SLCSE)	Photorealistic Simulations of General Relativity: Using the Finite Element Method to Solve, Test, and Analyze the Einstein Field Equations
Physics, Astronomy & Math - Second Place	Warren Ellsworth	Hillcrest High	Eliminating Dereliction of Traditional Monte Carlo Modus Operandi through a Novel Near-Continuously-Random, Non-Discrete MC Method Built for Stringent, Legitimate, and Efficacious Risk Estimates in Many Scenarios
Plant Sciences - First Place	Ethan Yrungaray & Isabella DeLagerheim	Salt Lake Center for Science Education (SLCSE)	Saving Our Soil (SOS): Finding a Reliable Base to Create Soil Stability Around the Receding Great Salt Lake

Regeneron ISEF Grand Champion Winners			
Winner	Mercedes Randhahn	St. Joseph High School	Investigating the Cytotoxicity of Centella asiatica Methanolic Leaf Extracts on MDA-MB-231 Human Breast Cancer Cells
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Winner	Evan Weinstein & Aiden Gandhi & Eli Hatton	Rowland Hall	Engine-ering the Future of Air Travel