The 70th Annual GSDSEF

GRAND AWARDS

2024

Grand Awards Runners-Up

Grand Award Runner Up - Life Sciences

Belle Schere

The Children's School

Advisor: D. Quincannon

Does the Use of Motivational Interviewing Affect Student Effort?

Grand Award Runner Up - Life Sciences Omar Abdulaziz Anabia Ehsan

Thurgood Marshall Middle School

Advisor: A. Abdulaziz

Earl Detection of Bradykniesia and Tremors in Parkinsons
Disease Using a Wearable Inertia Measurement Unit

Junior Division Grand Award Runner Up - Physical Sciences

Samuel Sternson

The Rhoades School

Advisor: R. Hunker

Passive Cooling with Infrared Reflective Crystals

Junior Division Grand Award Runner Up - Physical Sciences

Yusra Salem

Bright Horizons Academy

Advisor: N. Naserelddin

A Vibrating Exercise Band for the Deaf

Grand Awards
Runners-Up

Senior DivisionGrand Award Runner Up 1 - Life Sciences

Zinia Khattar

Del Norte High School

Advisor: A. Kosla

Integrated Stress Response Activation Discovered to be Predominant Response to Mitochondrial Dysfunction

Grand Award Runner Up 2 - Life Sciences

Sydney Zhang

Westview High School

Advisor: S. Halander

Design and Usability Study of a Point of Care mHealth App for early

Dry Eye Screening and Detection

Grand Award Runner Up 1 - Physical Sciences

Sarah Gao

Canyon Crest Academy

Advisor: E. Gerstein

From Trash to Treasure: Fighting Desertification with Sustainable Soil

Amending Hydrogels Synthesized from Food Waste

Grand Award Runner Up 2 - Physical Sciences

Alex Battikha

Westview High School

Advisor: J. Silberman

Using Artificial Intelligence and Unmanned Aerial Vehicle for Aid on Environmental Remediation

The Taiwan Award

A Grand Award presented by the Taiwanese American Foundation of San Diego

The Taiwan Award Alex Battikha

Westview High School

Advisor: J. Silberman

Using Artificial Intelligence and Unmanned Aerial Vehicle for Aid on Environmental Remediation

GRAND AWARDS

Junior Division Grand Award — Life Sciences

Yaalini Kathiravan

Pacific Trails Middle School

Advisor: M. Mareth

Early Detection of Scalp and Facial Diseases Using Selfies and Artificial Intelligence

Junior Division Grand Award — Life Sciences

Steven Chen

Pacific Trails Middle School

Advisor: M. Mareth

Synthesizing Living Materials for Coral Reef Regeneration

Grand Award - Physical Sciences Declan Henckels Guhan Senthil

Pacific Trails Middle School

Advisor: M. Mareth

Smart Walker

Junior Division Grand Award - Physical Sciences

Oliver Cottrell

La Jolla Country Day School

Advisor: N. Parker

Automatic Hockey Puck Passer

GRAND AWARDS

Senior Division Grand Award - Life Sciences

Leanne Fan

Westview High School

Advisor: D. McMartin

Photobiomodulation on In-Vivo and In-Vitro Wound Models
Under Simulated Microgravity for Future Space Travel

Senior Division Grand Award - Life Sciences

Nithika Vivek

Del Norte High School

Advisor: K. Ramesh

Deep Learning Multi-Modal Melanoma Detection

Senior Division Grand Award - Physical Sciences

Angelina Kim

The Bishop's School

Advisor: A. Pelletier

An Autonomous Unmanned Aerial Vehicle (UAV) System for Ocean Hazard Recognition and Rescue

Senior Division Grand Award - Physical Sciences Arnav Dagar

Canyon Crest Academy

Advisor: K. Hare

ARFSNet- Deep Learning for Amblyopia Risk Factor Screening

The 69th Annual GSDSEF

ISEF Finalists 2024

ISEF Finalists:

Leanne Fan

Nithika Vivek

Angelina Kim

Arnav Dagar

ISEF Finalists:

Sarah Gao

Zinia Khattar

Congratulations to our 2024

GRAND AWARD Winners