

Alachua

First Place

Junior

Alexander Hsu	Lincoln Middle School	BEHA
J0212	Social Media's Impact on Teenagers: FoMO, JoMO, and Stress	

Fourth Place

Senior

Nathan Wei	Buchholz High School	CHEM
S0514	Ultra-High Molecular Weight Polystyrene Covalent-Adaptable Networks for Enhancing Plastic Recyclability and Durability	

Sophia Rong	Buchholz High School	MACO
S1010	The Role of Cell-to-cell Transmission in HIV Infection: Insights from a Mathematical Modeling Approach	

Honorable Mention

Junior

Maggie Gao	Lincoln Middle School	EAEV
J0626	Effect of Fire Extinguisher Foam on Soil Quality and Plant Growth	

Recognition

Junior

Thomas Wendling	Westwood Middle School	PHYS
J1222	How Do Different Helmet Materials Affect the Strength of an Impact Passed through Them?	

Senior

Angela Gao	Buchholz High School	ENEV
S0817	Iron-Modified Biochar Recovers Phosphorus from Wastewater as Fertilizer through Column Filters and Flow Reactors (Year 2)	

Third Place

Senior

Akash Verma	Eastside High School	BMED
S0321	Evaluating the Efficacy of Certain High-altitude Plant Extracts in Mitigating the Potential Harmful Effects Caused by High Levels of Deleterious Chemicals in Skin Lightening Creams Using a Radiochromic Film Colorimeter Guided Approach, Year 2 Study	

Abhith Kasala	Gainesville High School	EAEV
S0616	Global Plastic Pollution: A Novel Investigation of the Ecotoxicological Effects of Microplastics on <i>Danio rerio</i> (Zebrafish) Embryonic Development and Assessing the Biomarkers to Determine Morphology, and Organ Viability, a Holistic Approach	

8 awards for Alachua Region

Big Springs

First Place

Junior

Miguel Secillano	Howard Middle School	MACO
J1005	Now Boarding - A Scientific Simulation of Boarding a Plane	

Senior

Alynza McBride	South Sumter High School	EAEV
S0608	Are Growth Rates of Pine Trees Affected by Depth to Ground Water?	

Fourth Place

Junior

Avery K Greathouse	Saint John Lutheran School	BMED
J0305	Crazy About Caffeine: What is the Effect of Caffeine on Heart Rate Using <i>Daphnia magna</i> ?	
Sarah C Colley	The Villages Charter Middle School	CHEM
J0513	Molecular Gastronomy & Medicine	
Delaney Peterson	The Cornerstone School	ENEV
J0806	How Much Power can Be Generated Using a Linear Solar Power System Along the Median and Shoulder of the Florida Turnpike?	

Honorable Mention

Junior

Gerardo J Cardoso	Wildwood Middle High School	CMBI
J0404	Bacteria on Kitchen Sponges...Which Method is Best	
Lily B Kosa	Wildwood Middle High School	EAEV
J0613	What Can Destroy the Growth of Coffee Senna?	
Ryan Glatter-Gotz	The Cornerstone School	IMRS
J0905	Distinguishing Between AI and Human-Generated Text: A Challenge for LA Teachers?	

Senior

Grace C Froehle	The Villages Charter High School	EAEV
S0607	A Quantitative Study of Microplastics in Freshwater Systems in Florida and their Contribution to Microplastics found in the Ocean off the Gulf of Mexico	
Jose M Carvajal-Beltran	Wildwood Middle High School	PHYS
S1204	Establishing a Possible Correlation between Variation of Thermodynamics and Corresponding Aerodynamics in Descent of Maple Samara Seeds...: Year II	
Jade A Collins	West Port High School	PHYS
S1205	Testing the Tensility of Spider Silk in Comparison to Steel	

Recognition

Junior

Nolan D Kennedy	The Villages Charter Middle School	EAEV
J0612	The Efficacy of Various Methods to Transform Macroalgal Sargassum Blooms Into a Sustainable High-nutrient Fertilizer	

Second Place

Junior

Brady W Kline	The Villages Charter Middle School	PHYS
J1211	Which Type of Tape is Objectively the Best?	

Megha Sandrapaty	Osceola Middle School, Ocala	PHYS
J1212	What Angle of Trajectory and Fin Configuration will Allow a Rocket to Travel the Farthest?	

Senior

Camille A Duma	Vanguard High School	MACO
S1004	Application of Michaelis-Menten Rational Function Models, Parametric Calculations, and Differential Equations to Determine the Most Influential Factor on Histamine Levels	

Rishit Shaquib	Vanguard High School	MICR
S1108	Bi-Directional Hygiene: Combating Nosocomial Infection with the Microbiome	

Third Place

Junior

Lillian M Fontaine	Saint John Lutheran School	ANIM
J0104	How can Predatory Mite Environments Be Improved to Increase Production for the Biological Control of Snake Mites?	

Abigail D Lacayo	Wildwood Middle High School	BMED
J0306	Enzyme Excellency Year 2	

Jaycee G Woody	Wildwood Middle High School	PLNT
J1305	Phytoremediation: Using Plants to Remove Lead From Soil	

Senior

Hannah G Kennedy	The Villages Charter High School	BMED
S0309	A Method for Papanicolaou Tests Utilizing a Novel Cytobrush to Reduce Acute Pain and Increase Effective Sample Collection	

Diana Gegaj	Vanguard High School	CHEM
S0503	Optimizing of the Suzuki Cross-coupling Reaction Using Design of Experiments (DOE) in 3 Factors Reaction Time, Temperature, and Catalyst Loading	

Litian Zheng	Vanguard High School	CHEM
S0503	Optimizing of the Suzuki Cross-coupling Reaction Using Design of Experiments (DOE) in 3 Factors Reaction Time, Temperature, and Catalyst Loading	

Shane Hoang	Vanguard High School	CHEM
S0504	Investigating the Viability of Molten Salt Batteries as a Sustainable and Effective Substitute for Lithium Ion Batteries	

Raaghuv Nandur	Vanguard High School	CHEM
S0504	Investigating the Viability of Molten Salt Batteries as a Sustainable and Effective Substitute for Lithium Ion Batteries	

Vaughn Sirkis	Vanguard High School	CHEM
S0504	Investigating the Viability of Molten Salt Batteries as a Sustainable and Effective Substitute for Lithium Ion Batteries	

25 awards for Big Springs Region

Brevard: Intracoastal

Division Grand Award Winner And First Place

Senior

Dillen Scott S1206	Satellite High School A Novel Method of Calculating Air Shower Muon Half Life Using Time of Flight	PHYS
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Fourth Place

Junior

Sidharth Patsamatla J0906	Edgewood Jr/Sr High School A Novel Artificial Intelligence Tool for the Detection of Cancer Towards Improved Radiotherapy via High Level Computer Vision and Image Segmentation	IMRS
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Jaxon Hyczka J1106	Herbert H. Hoover Middle School The Antibacterial Effectiveness of a Copper Nanoparticle Polymer Resin	MICR
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Senior

Sara Mozden S0610	Edgewood Jr/Sr High School Understanding Water Spangles (<i>Salvinia minima</i>) Highly Invasive Nature by Comparing Population Growth and Nutrient Absorption with Common Duckweed (<i>Lemna minor</i>), and Assess its Potential to Remediate Nutrient Polluted Waters.	EAEV
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Honorable Mention

Junior

Rene Formoso J0710	Edgewood Jr/Sr High School R.O.D.A: Robotic Operating Discovery Arm	ENMS
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Zander Colangelo J1216	DeLaura Middle School Electromagnetic Launch Systems	PHYS
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Senior

Thanmay Kumar S1006	Edgewood Jr/Sr High School A Novel Analysis of Machine Learning Approaches in Aiding Glaucoma Identification	MACO
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Recognition

Junior

Rebecca Shackley J0309	Herbert H. Hoover Middle School The Effect of Chitosan on Regeneration in <i>Hydra littoralis</i>	BMED
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Abigail McFarland J0520	Edgewood Jr/Sr High School Corrosive Coffee, Brew Methods and Freshness	CHEM
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Jadyn Cross J1007	DeLaura Middle School Designing a Turing Complete 8 Bit Computer	MACO
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Senior

Peyton Prill S0109	Edgewood Jr/Sr High School Measuring the Effect of Urea on the Behavior of <i>Amphibalanus eberneus</i>	ANIM
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Samantha Cohen-Pinsky S1311	Satellite High School Targeted Mutagenesis of the Arabidopsis Deoxyhypusine Synthase (DHS) Gene via CRISPR/Cas9 Enzyme Engineering; Generating an Increase in Carbon Sequestration and Photosynthetic Rate	PLNT
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Second Place

Junior

Dominic Tosi J0206	Herbert H. Hoover Middle School Learning to Learn or Learning to Teach?	BEHA
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Aiden Wright J0407	Herbert H. Hoover Middle School The Effect of <i>Punica granatum</i> on <i>Drosophila melanogaster</i> (Year 2)	CMBI
Griffin Kirby J0618	Edgewood Jr/Sr High School A Bright Idea for Tracking Septic Wastewater Pollution	EAEV
Aswath Rajesh J0812	DeLaura Middle School How Does Chitosan Enhance the Properties of Bio-Plastic?	ENEV
Wesley Kettering J1311	Herbert H. Hoover Middle School Sea Soak vs Sea Spray	PLNT

Third Place Senior

Jeremiah Feizi S0313	Satellite High School Seaweed and Spheroids: Investigating the Maintained Anti-Cancer Efficacy of the Seaweed Extract Fucoidan Against Adenocarcinoma Cultured Two and Three Dimensionally Year III	BMED
Jesse White S0404	Satellite High School Gene Therapy Cancer Cell Treatment: Using Predesigned Lentiviral Plasmid Glycerol Stocks to Knockback and Silence the Gene CLDN1	CMBI
Brianna Jones S0709	Edgewood Jr/Sr High School Inhibiting the Ripening and Infection of Crops Through Cold Plasma Treatment	ENMS
Sharanya Natarajan S0810	Edgewood Jr/Sr High School An Engineered Hub & Spoke System to Seek and Destroy HABs (Yr-4)	ENEV
Julia Cohen-Pinsky S1109	Satellite High School Extracting and Purifying <i>Apis mellifera</i> Venom for Use as an Antimicrobial Agent	MICR

22 awards for Brevard: Intracoastal Region

Brevard: Mainland

Division Grand Award Winner And First Place

Junior

Sophie Schuh J0817	Viera High School Making a Better Rope Cutter for Entangled Whales	ENEV
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Fourth Place

Junior

Corina Lane J1110	Johnson Middle School <i>Escherichia coli</i> ATCC 25922 Colonies Isolated to Different Temperatures to See Which Will Reproduce the Most	MICR
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Senior

Lavanya Natarajan S0916	Viera High School Autonomous Data Acquisition and Imaging System to Mitigate Fugitive Methane Emissions in Landfills	IMRS
Emma Carpenter S1015	Viera High School A Time-series Analysis of Period-doubling Bifurcations in Cepheid Variable Stars to Identify the Edge of Chaos	MACO
James Egdorf S1213	Viera High School How Does the Application of a Free-Rotating Disk Design for Triboelectric Nanogenerators Compare to a Paper Based Design?	PHYS
Grayce Meredith S1323	Astronaut High School Does Grass Variety Impact Absorption of Fertilizer Runoff?	PLNT

Honorable Mention

Junior

Delaney Hermes J0633	Space Coast Jr/Sr High School Breaking Down Ocean Acidification	EAEV
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Senior

Jasmine Bohannon S0418	Rockledge High School A Novel Imaging Technique: Using Fluorescent Dyed Silica Nanoparticles in Identifying Leukemia Biomarkers	CMBI
Zaina Waldo S0518	Rockledge High School Using Dyed Silver Nanoparticles as a Novel Latent Fingerprint Testing Medium	CHEM

Recognition

Junior

Chase Nason J0719	Madison Middle School Construction Adhesives	ENMS
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Second Place

Senior

Sophia Weiner S0715	Holy Trinity Episcopal Academy Detecting Myofascial Tightness in the Lower Extremities	ENMS
RJ Zrallack S0820	Titusville High School Engineering a Completely Biodegradable System of Microsorum Pteropus to Reverse Eutrophication in Leachate Canals that Lead into the Indian River	ENEV

Third Place

Junior

13 awards for Brevard: Mainland Region

Brevard: South

Division Grand Award Winner And First Place

Senior

Rushil S Shah	West Shore Junior/Senior High School	BEHA
S0222	Understanding the Impact of Celebrity Endorsements on the Artificial Growth of Altcoins through a Multi-Level Latent Class Analysis and Software Based Approach	

First Place

Junior

Cyndee E Miranda	West Shore Junior/Senior High School	EAEV
J0641	How Does <i>Pestalotiopsis microspora</i> React to Different Types of Plastic?	

Senior

William A Held	Heritage High School	CMBI
S0423	Determining an Optimal Carbon Source to Promote the Radiosynthetic Growth of <i>Cladosporium sphaerospermum</i>	

Fourth Place

Junior

Matthew G Grainger	West Shore Junior/Senior High School	MACO
J1013	Tracking and Comparing Influenza Patterns	

Senior

Basil M Salem	Melbourne High School	IMRS
S0922	Utilizing Arduino to Develop a Haptic Virtual Interaction Glove	

Honorable Mention

Junior

Jayne E Clark	West Shore Junior/Senior High School	BEHA
J0217	Do Discoid Roaches Prefer Peanuts, Dry Oatmeal, or Apples Best?	

Eshan Vipuil	West Shore Junior/Senior High School	BMED
J0321	Comparing the Antimicrobial Resistance of <i>Escherichia coli</i> Using Different Antibacterial Methods through Inhibition Zones Over Time	

Senior

Emma P Schaff	Melbourne High School	PLNT
S1331	The Effects of Ocean Acidification on <i>Halimeda opuntia</i>	

Recognition

Junior

Dylan Siegal	West Shore Junior/Senior High School	CHEM
J0542	Extracting Vitamin C from Potatoes Using Titration	

Senior

Ava J Auter	West Shore Junior/Senior High School	EAEV
S0632	Muck Accumulation and Nutrient Cycling within Salt Wedge Zones in the Indian River Lagoon: A Second Year Study	

Second Place

Junior

Shoaib Ahmed	West Shore Junior/Senior High School	MICR
J1112	Bacteria Growth in Different Levels of Magnetic Fields	

Senior

Pranav Ponnusamy	West Shore Junior/Senior High School	ENMS
S0720	3rd Eye: A Novel Embedded System for Driver Attentiveness Monitoring Using Data Fusion and Machine Learning (Year 2)	

Third Place**Junior**

William J Estevez	West Shore Junior/Senior High School	ENEV
J0820	Designing, Creating, and Testing a Multi-Purpose Wave Tank	

Senior

Laya Damaraju	West Shore Junior/Senior High School	CHEM
S0530	Novel Red Blood Cell Membrane-Wrapped Septenary High-Entropy-Alloy Nanoparticles for Photothermal Osteosarcoma Treatment - Year 2	
Bianka A Albert	West Shore Junior/Senior High School	IMRS
S0923	An AI-Driven Approach for Early Diagnosis of Bronchogenic Carcinoma to Aid Radiologists to the Detection and Classification of Lung Nodules in 3-Dimensional Volumes Generated from Patients' Thoracic CT Scans Implementing 3-Dimensional Convolutional Neural Networks	
Matthew W Krininger	West Shore Junior/Senior High School	PHYS
S1215	Development of a Bleed Based Aerospike Engine	

16 awards for Brevard: South Region

Broward

First Place

Junior

Olivia Chung J1328	American Heritage School The Effects of Vegetable Storage Methods on Plant Protein Concentration	PLNT
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Senior

Jacob Federici S1327	American Heritage School Mitigation of Decreased Protein Synthesis under Elevated Carbon Dioxide in <i>Arabidopsis thaliana</i>	PLNT
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Fourth Place

Junior

Adam Ginsburg J0317	NSU University School How Does Temperature Affect the Viability and Effectiveness of Suture Threads when Closing Wounds?	BMED
Christian Diez J0726	Classical Conversations of West Plantation Which Bridge Has the Greatest Load Bearing Capacity?	ENMS

Senior

Melodi Fugate S0331	American Heritage School Transgenerational Effects of the College Epidemic on Food Addiction and Obesity Using <i>Caenorhabditis elegans</i> as a Model	BMED
Hayley Hodes S0332	Pine Crest School Identifying MicroRNA Targets for Treatment of Multiple Myeloma with Chromosome 1q21 Amplification	BMED
Alejandra Abramson S0718	American Heritage School The Development of 3D-Printed Bio-Renewable Polymer Aqueous Solution for Tissue Engineering	ENMS
Akansha Mehta S1115	American Heritage School Evaluating the Quorum Quenching Potential of Phytochemicals Rutin, Syringic Acid, and <i>Ziziphus mucronata</i> Extract on <i>Chromobacterium violaceum</i> Quorum Sensing	MICR
Tyler Delgado S1328	St. Thomas Aquinas High School Natural Plant Filtration with <i>Funaria hygrometrica</i> and <i>Phyllostachys edulis</i> Cellulose	PLNT
Nicholas Selvaggi S1328	St. Thomas Aquinas High School Natural Plant Filtration with <i>Funaria hygrometrica</i> and <i>Phyllostachys edulis</i> Cellulose	PLNT

Honorable Mention

Junior

Samuel Mays J0723	NSU University School inSPECTRO Gadget: Low-cost, Portable Raman Scatter Spectroscopy to Identify Unknown Substances	ENMS
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Senior

Maya Neeranjan S0920	American Heritage School Deep Learning Automated Segmentation of Left Atrium in Cardiac MRI for Atrial Fibrillation: a Benchmark Study of State-of-the-Art Methods	IMRS
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Recognition

Junior

Ivan Kalashnykov J1326	American Heritage School The Effects of Different Preservation Types on the Nutrient Volume of Microgreens Grown in Different Substrates	PLNT
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Second Place

Junior

Alexa Shamus	Pembroke Pines Charter Middle School	BMED
J0320	The Influence of Sneaker Type on Eighth and Ninth Graders' Gait	
Maximus Callis	American Heritage School	ENMS
J0725	The Effects of Material Type on Energy Absorption when Testing 3000 Series Aluminum, Quasi-Isotropic Carbon Fiber, and Self-Reinforced Polypropylene Thermoplastic Using a Custom Impact Testing Machine	

Senior

Calvin Mathew	American Heritage School	CHEM
S0522	3D Printing Personalized Knee Implants: Novel Computational Geometric Models for Stem Cell Regeneration in Meniscus Tears	

Third Place

Junior

Sohail Hai	American Heritage School	BMED
J0316	The Correlation of Elevated Spermine Levels and the Incidence of Pancreatic Cancer	
David Albertini	Classical Conversations of West Plantation	ENMS
J0727	Let There Be Light: The Solar-Faraday Flashlight	

Senior

Emma Delgado	American Heritage School	BEHA
S0221	The Effect of Varying Time Periods of the Intermittent Metabolic Switching (IMS) Diet on the Cognitive and Behavioral Abilities of Mutant <i>Drosophila melanogaster</i> , Leading to Brief Synaptic Neuroplasticity	
Adelmo Morrison Orozco	Cypress Bay High School	CHEM
S0521	Iron Cross-linked Alginate Beads for the Photosensitive Release of Fertilizer	
Zoe Reisman	Cypress Bay High School	CHEM
S0521	Iron Cross-linked Alginate Beads for the Photosensitive Release of Fertilizer	
Anik Bora	American Heritage School	EAEV
S0628	Creating a Drought Prediction Model Using Convolutional Neural Networks	
Sina Stefanos	St. Thomas Aquinas High School	MICR
S1116	Action Mechanisms of Acne Medications Modeled by <i>Mycobacterium smegmatis</i>	

23 awards for Broward Region

Capital

Fourth Place

Senior

Divya S Vemireddy	James S. Rickards High School	ENEV
S0816	AI Designed Rover That Uses Object Detection to Identify and Collect Trash Off Ocean Floors	

Honorable Mention

Senior

Kavyashree Kadhivelu	James S. Rickards High School	CHEM
S0513	A Python Tool for Analysis and Prediction of Bio-Oil Quality Using Molecular Composition Data Derived from FT-ICR MS	
Navya S Kommu	James S. Rickards High School	MICR
S1113	Metagenome Assembled Genome (MAG) As a Tool to Better Understand Uranium Bioremediation	

Recognition

Junior

Angela M Curry	Trinity Catholic School	ANIM
J0109	The Amazing Catch	
Evan C Takacs	Christ Classical Academy	ANIM
J0110	Is Wildlife More Active During a Full Moon?	

Senior

Caroline E Couch	Maclay School	ANIM
S0114	The Predictive Value of Tibial Plateau Angle for Risk of Cranial Cruciate Ligament Rupture in Dogs	
Heewon Seo	Lawton Chiles High School	EAEV
S0615	Predicting and Evaluating Water Quality in Areas Affected by Tropical Cyclones Using Machine Learning	
Arib M Syed	Lawton Chiles High School	EAEV
S0615	Predicting and Evaluating Water Quality in Areas Affected by Tropical Cyclones Using Machine Learning	
Leah G Kiros	Maclay School	MACO
S1009	Defining and Modeling Nuclear Migration in the Early Drosophila Embryo	

Second Place

Senior

Shaoyang Ma	Lawton Chiles High School	BMED
S0320	Exosome Biogenesis of Human Stem Cells Regulated by Scalable Bioreactors	

Third Place

Junior

Keya K Patel	Maclay School	PHYS
J1220	The Inverse Space Leidenfrost Effect	
Emmie B Kutter	Maclay School	PHYS
J1221	Fingerprinting an Individual Cello Using an Algorithm with Fourier Analysis	
Ana C Bouchard	Christ Classical Academy	PLNT
J1316	Hypochlorous Acid and Seedlings	
Leanna J Kitchen	Community Leadership Academy	PLNT
J1317	Under Pressure: Does it Help Plants?	

Senior

15 awards for Capital Region

Citrus

Honorable Mention

Junior

Dean Grace J0619	Nature's Fertilizer	Saint John Paul II Catholic School	EAEV
Zachariah Clayton J1217	Musical Flames	Citrus Springs Middle School	PHYS

Senior

Jahnavi Kompella S0314	Combination Therapy's Effect on Biofilm Production in Patients with Pneumonia	Lecanto High School	BMED
Kaithlyn Jamaludin S0509	Relationship between Carbon Dioxide Levels and the Spoilage Time of Bos Taurus Meat	Lecanto High School	CHEM

Recognition

Senior

Ananya Padala S0210	Are Common Memory Supplements "Lion" to Us?	Lecanto High School	BEHA
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Third Place

Senior

Nandini Karanam S1110	Natural Herbal Remedies vs Pharmaceutical Treatments Against Bacterial Species Commonly Found in Wounds	Lecanto High School	MICR
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6 awards for Citrus Region

Clay Rotary

Fourth Place

Senior

Nha-Thanh Duong	Ridgeview High School	CHEM
S0524	Titanium Bonds: A Study of the Efficacy of Varied Surface Preparation Methods on Titanium Substrates for Optimized Structural Adhesion	

Honorable Mention

Senior

Alexander James Gordon	Ridgeview High School	IMRS
S0925	Motion Profiling Algorithm for Improved Intelligent Machine Target Correction	

Recognition

Senior

Phoenix Amirah Ricketts	Ridgeview High School	CMBI
S0425	Cellulose Isolation from Sorghum Bicolor Biomass via Alkaline, Hydrogen Peroxide Treatment	

Dylan R Barclay	Orange Park High School	CHEM
S0525	Poseidon's Wind	

Angelo De La Rosa	Ridgeview High School	IMRS
S0924	A Novel Application Including Usage of Deep Learning Algorithms, 3-Channel Accelerometers, and Gyroscopic Technologies to Assist the Visually Impaired in Surroundings Identification	

Third Place

Junior

Hajun Joshua Chun	Orange Park Junior High School	IMRS
J0914	Robot Wheels Effect on Agility and Accuracy	

Antonio Benjamin Estrada	Orange Park Junior High School	IMRS
J0914	Robot Wheels Effect on Agility and Accuracy	

7 awards for Clay Rotary Region

Collier

First Place

Junior

Santiago Hernandez J0504	Golden Gate Middle School Water Fountain Impurities	CHEM
Sarah Dabees J1202	North Naples Middle School Harnessing Waste Energy Using Thermoelectric Generators	PHYS

Fourth Place

Junior

Alex Ewy J0604	North Naples Middle School How Varying Levels of Urbanization Increase or Decrease Carbon Dioxide Levels	EAEV
Lavya Patel J1201	Oakridge Middle School Something From Nothing!	PHYS
Rocco Sammartino J1205	Gulfview Middle School Battle of the Brands	PHYS

Senior

Brad Malick-Beltran S0804	Barron Collier High School 3D Printing Biodegradable, Environmentally Friendly, Slow Sinking, Lipless Crankbaits to Match the Fall Rate of the Market Standard	ENEV
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Recognition

Junior

Oliver Schwartz J0506	Pine Ridge Middle School The Difference of pH Between Several Apple Cultivars	CHEM
Jack Pustizzi J1204	Oakridge Middle School Magnetic Coaster Launch Systems	PHYS

Second Place

Junior

Aaroohee Dabas J0505	Oakridge Middle School Effect of Using Different Leavening Agents on Cookies	CHEM
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Senior

Colin Briggs S0906	Gulf Coast High School Quiver: Creating an Improved Efficacy Java Cybersecurity Library by Optimizing Application Based Programming Interfaces and Parameterizing Cryptographic Functions of Existing Packages	IMRS
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Third Place

Junior

Melina Parris J1203	North Naples Middle School Harnessing Solar Energy to Make a "S'moretacular" Dessert	PHYS
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11 awards for Collier Region

Dr. Nelson Ying Expo - Orange

Division Grand Award Winner And First Place

Senior

Atreya Manaswi	Orlando Science High School	ANIM
S0122	Evaluating the Efficacy of Novel Volatile Beer Blend and Coumaphos Acaricide for Small Hive Beetle Treatment within Honey Bee Hives, Year 4	
Tiffani Gay	Orlando Science High School	IMRS
S0926	Designing a Novel LiDAR Navigation System with Haptic feedback, Bluetooth and App Integration for the Visually Impaired, Year II	

Fourth Place

Junior

Aanvi Mathur	Orlando Science Middle School	BMED
J0322	The Effectiveness of Smart Sunscreens as Compared to Traditional Sunscreens against Ultraviolet Radiation Using Bacteria as a Skin Cell Model	
Yuthika Panigrahi	Orlando Science Middle School	EAEV
J0642	The Effect of Soil Permeability on Water Filtration	
Aditi Swain	Orlando Science Middle School	ENEV
J0821	Generating Electricity from Food Waste	
Paxton Boaz	International Community School	MACO
J1014	2 for 1: Yes or No	

Honorable Mention

Junior

Adrian Jose Alvarez	Lockhart Middle School	ENMS
J0731	Single-axis and Dual-axis Tracking Systems	

Senior

Megan Nguyenha Vu	Trinity Preparatory School	ANIM
S0121	How Varying Toxicities of Agarwood and Sandalwood Incense Impact <i>Drosophila melanogaster</i>	
Aayna Rohit Bhatheja	Lake Highland Preparatory School	ENEV
S0824	Hybrid Clay Films with Antimicrobial Efficacy for Treating Burns and Wounds, Year II	
Genesis Cely	Trinity Preparatory School	ENEV
S0825	The Novel Development of a Bio-Based Smart Material for Pharmaceutical Packaging and Temperature Monitoring	

Recognition

Junior

Keerthi Karri	Orlando Science Middle School	PLNT
J1331	The Efficiency of Different Amounts of Ayurvedic Medicine for Nourishment of Young Lettuce Plants	

Senior

Kate Elizabeth Martyn	Trinity Preparatory School	CHEM
S0526	What Is the Protective Capacity of the Components of Reef-Safe Sunscreens?	

Second Place

Junior

Aakash Manaswi	Lake Highland Preparatory School	ANIM
J0115	A Novel Investigation of Various Beer Brands for Small Hive Beetles Treatment in Honey Bee Colonies	

Abigail Merchant	Orlando Science Middle School	IMRS
J0915	The Mindful Arm	

Senior

Anay Rajesh Shah	Lake Highland Preparatory School	CMBI
S0426	Examining Endothelial Cell Migration in the Presence of Magnetic Fields for Wound Healing Purposes	

Aryan Pathak	Lake Highland Preparatory School	PHYS
S1218	Extending the Analysis of TNO Data to Longer Wavelengths in Advance of James Webb Space Telescope Data	

Third Place

Junior

Shishir Sajja	Orlando Science Middle School	CHEM
J0543	Which Artificial Sweetener Does Yeast Grow Best in?	

Ragini Nayak	Orlando Science Middle School	MICR
J1113	The Effectiveness of Extracts from Natural Antibacterial Substances at Eliminating Bacteria Compared to Fluorquinolones on <i>E. coli</i>	

Senior

Ece Sarioglu	Lake Highland Preparatory School	BEHA
S0223	Analyzing Search Guidance from the Relative Arrangement between Objects	

Krithik Seela	Lake Highland Preparatory School	BMED
S0339	Using Artificial Intelligence Graph Neural Networks to Repurpose Pre-existing Drugs and Analyze Drug Relationships, Year 3	

Noah Anderson Hall-King	West Orange High School	MACO
S1021	A Novel Model for Reactor-Grade Crystalline Nuclear Fuel	

Anthony James Miceli	Trinity Preparatory School	PLNT
S1333	The Effects of <i>Rhizobium leguminosarum</i> Inoculation on <i>Pisum sativum</i> Grown in Martian Regolith	

22 awards for Dr. Nelson Ying Expo - Orange Region

East Panhandle

Honorable Mention

Junior

Kyle Sposato	Saint Mary Catholic School	PLNT
J1324	Polluted Plants!	

Recognition

Junior

Hailey Nutt	Rocky Bayou Christian School	CHEM
J0537	What Fabric Can withstand Washes with a Darker Color?	

Sierra Neitzke	Okaloosa STEMM Academy	ENEV
J0818	Bioplastics: Strength Battle	

Senior

Summer House	Magnet Innovation Center - South Walton High School	ENMS
S0716	What Is the Best Windblade Shape	

Zoe Orange	Paxton High School	ENEV
S0821	Χωρ?ς Χ?μα β: A Realistic Solution to the 2050 Soil Crisis and Possible Use for the Nutrient Additive to Soil on Mars	

Aurora Mendenhall	Niceville High School	MACO
S1016	Folding the Future: An Innovative Approach to Solving the Supply Chain Crisis with Geometry	

6 awards for East Panhandle Region

Havens

Fourth Place

Senior

Henry Jiang S0911	North Bay Haven Charter Batstick: Ultrasonic Smart Walking Aid	IMRS
Walker Verenakis S0911	North Bay Haven Charter Batstick: Ultrasonic Smart Walking Aid	IMRS

Honorable Mention

Junior

Rohan Rost J0324	Bay Haven Charter Academy The Effect of Different Sugars on the Growth of Planaria	BMED
Sophia Torres J0406	University Academy - Charter Yeast Feast	CMBI
Emma Windsor J0406	University Academy - Charter Yeast Feast	CMBI

Recognition

Junior

Valerie Downing J0615	Bay Haven Charter Academy Seastatic Plastic	EAEV
Alina Beech J0616	University Academy - Charter Seagrass Health (Phase II)	EAEV

7 awards for Havens Region

Heartland

Fourth Place

Junior

Caroline Cornell J0527	Hardee Junior High School Does the Type of Potassium Applied Foliarly to <i>Capsicum annuum</i> (bell peppers) Affect the Size of the Pepper?	CHEM
Anderson Gray J1313	Hardee Junior High School Does a Redworm's (<i>Lumbricus rubellus</i>) Diet Affect the Rate of Germination for Seeds?	PLNT

Senior

Jenna Larson S0112	Okeechobee High School Thermoregulation in Dairy Cattle: Evaluating Milk Production of Lactating Holstein Cow Sired by SLICK Bulls with and without the SLICK Gene: A Third Year Study	ANIM
Angela Huang S0407	Sebring High School Confirming Inflammation and Immune Cell Presence as Hallmarks of the Epithelial-Mesenchymal Transition in Colorectal Cancer - Year 2	CMBI
Jackson Holcomb S0613	Okeechobee High School Growing More with Less: The Effect of Microbes on Fertilizer Efficiency	EAEV

Honorable Mention

Senior

Laina Canary S0612	Hardee Senior High School Do Cattle that Graze from Farmfields that Have Been Farmed with Plastic Mulch Have Microplastics in Them? Year 4	EAEV
Emma Jane Johnson S1314	Hardee Senior High School Does the Application Method of Molasses Affect the Brix in <i>Citrullus lanatus</i> ? Year 3	PLNT

Recognition

Senior

Jenna Johnston S1315	Okeechobee High School Microgravity and its Effect on Plant Growth	PLNT
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Second Place

Senior

Jasmine Desai S0319	Okeechobee High School The Effect of Climate Change on <i>Drosophila melanogaster</i> when on Dietary Supplements (Resveratrol), a Second Year Study	BMED
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Third Place

Junior

Cooper Nolte J0529	Yearling Middle School Homemade Hydrogen: The Effect of Voltage on Electrolysis	CHEM
Janelle McDuffie J1315	Hardee Junior High School Does the Type of Media Affect the Growth and Yield in Potted Basil (<i>Ocimum basilicum</i>) Production?	PLNT

Senior

Brady Williamson S1317	Okeechobee High School Money in the Bag: Investigating the Effectiveness of Individual Tree Protectors vs Open Air Protection against Huanglongbing In Three-Year Old Valencia Orange Trees, a Two Year Study	PLNT
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12 awards for Heartland Region

Hernando

Fourth Place

Junior

Colton Harrin J0531	Challenger K8 School of Science and Mathematics Power of Mud: The Effect of Compost Tea, Banana Water, and Tap Water on MFC Production	CHEM
Theodore Toler J0632	Challenger K8 School of Science and Mathematics The Effect of Land Development on Native <i>Tillandsia spp.</i> in the University of South Florida Forest Preserve	EAEV
Emily Harrin J1319	Challenger K8 School of Science and Mathematics Water Matters!: The Effect of Water pH on Grass Growth	PLNT
Bryce Nagel J1320	Challenger K8 School of Science and Mathematics The Effects of Ultraviolet Radiation on the Growth of Plants	PLNT

Honorable Mention

Junior

Kathryn Sharkey J0631	Challenger K8 School of Science and Mathematics Algae Adversary: The Effects of Competition for Nutrients on the Severity of Algal Blooms	EAEV
Callen Moynihan J1225	Challenger K8 School of Science and Mathematics How Does the Temperature of Steel Affect Its Malleability?	PHYS

Recognition

Junior

Elijah Gibson J1224	Challenger K8 School of Science and Mathematics On the Road Again: The Effect of Weight Distribution on the Speed of a Vehicle on an Incline and on a Decline	PHYS
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Senior

Harsh Mehta S1208	Frank W Springstead High School Discrepancies in Exoplanetary Data	PHYS
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8 awards for Hernando Region

Hillsborough

Fourth Place

Junior

Rhea Varma J0220	Williams Middle Magnet School Psychology of Competitiveness	BEHA
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Honorable Mention

Junior

Nitin Kurup J0916	Williams Middle Magnet School COVID Complication	IMRS
Suma Gunupati J1333	Benito Middle School The Effects of Fertilizer on Different Types of Rice Grains	PLNT

Senior

Deshna Pal S0723	Strawberry Crest High School Real Time Implementation of Eye Tracking Cursor	ENMS
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Recognition

Junior

Matthew Durham J0734	Stewart Middle School How Does the Type of Metal Affect the Strength of It as an Electromagnet	ENMS
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Senior

Vito Nicolaci S0126	Durant High School Impact of the Salvator merianae on Native Gopherus polyphemus Population Densities	ANIM
Mollie Usher S0126	Durant High School Impact of the Salvator merianae on Native Gopherus polyphemus Population Densities	ANIM
Lydia Linares S0529	Strawberry Crest High School To What Extent Does the Addition of Bisphenol A into an Aquatic Environment Affect the Efficiency of the Consumption of Calcium in Halimeda opuntia?	CHEM
Erik Dyer S0828	Newsome High School Reinventing Strategies of Domestic Cooking to Curtail Carbon Monoxide Exposure in Developing Countries	ENEV
Findlay Hartman S0828	Newsome High School Reinventing Strategies of Domestic Cooking to Curtail Carbon Monoxide Exposure in Developing Countries	ENEV
Rudra Patel S0929	Middleton High School Using an Electroencephalogram and a Transcutaneous Electrical Nerve Stimulation (TENS) Unit to Develop a Noninvasive Neuroprosthetic for Quadriplegic Patients	IMRS

Second Place

Junior

Tanishka Aglave J0417	Williams Middle Magnet School An Eco-Friendly Alternative to Chemical Herbicide - A Sustainable Approach for the Amaranthus palmeri Weed Control Using Novel Bio-Herbicide and Analyzing its Efficacy through NDVI/NDRE Vegetation Indexes through RapidScan CS45 Hand Sensor Device	CMBI
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Senior

Suchi Patel S0636	Middleton High School Novel 3D Multiplex Bioprinting Approach for Restoration of Coral Nurseries Utilizing CRISPR/Cas9-mediated Genome Editing of Symbiodinium Microadriaticum	EAEV
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Third Place

Junior

Swara Patel	Carrollwood Day School	MICR
J1114	An Investigation to Determine an Ideal Substrate Ratio for a Martian In-situ Resource Utilization System Using Cyanobacteria (Year 3)	

Senior

Daniel Park	King High School	EAEV
S0635	Foxfire Fungi: The Effect of Lead Oxide Amounts on the Bioluminescence Intensity of <i>Panellus stipticus</i>	

Anika Prasad	Strawberry Crest High School	MACO
S1024	Analysis and Prediction of Breast Cancer Using Machine Learning Approach	

16 awards for Hillsborough Region

Indian River

Fourth Place

Junior

Jack Curley J0803	Carbon Capture	Saint Edward's Upper School	ENEV
Cesar Dato-Slattery J0803	Carbon Capture	Saint Edward's Upper School	ENEV
Nicholas Rummel J0803	Carbon Capture	Saint Edward's Upper School	ENEV

Senior

Elizabeth De Schouwer S1104	Identifying, Cloning, and Validating a Lysin Gene into <i>E. coli</i>	Vero Beach High School	MICR
Kailee Webster S1306	Repopulating <i>Halodule wrightii</i> in the Indian River Lagoon: Getting to the Root of the Problem	Vero Beach High School	PLNT

Honorable Mention

Junior

Harper Hall J1103	Can't Touch This!	Sebastian River Middle School	MICR
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Recognition

Junior

Payton Kaplan J0515	Marvelous Milk Alternatives	Sebastian Charter Junior High School	CHEM
Uma Crisafulli J0802	From Food Scraps to Fuel	Gifford Middle School	ENEV
Gianna Lauren D'Elia J1102	Moss vs Lichen: Which Has More Tardigrades?	Storm Grove Middle School	MICR

Senior

Addison Logemann S1105	The Effect of Temperature and Nutrients on the Concentration of Dinoflagellates	Saint Edward's Upper School	MICR
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Second Place

Junior

Ariana Bolton J0606	An A-Salt on Our Oceans: The Effects of Salinity on Rate of Thermal Expansion	Storm Grove Middle School	EAEV
Gianna Dykes J1303	Vermiponics: Wiggly Worms to the Rescue v2	Sebastian Charter Junior High School	PLNT

Third Place

Junior

Avi Johnson J0202	Varying Values	Storm Grove Middle School	BEHA
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13 awards for Indian River Region

Lake

Honorable Mention

Junior

Sophie Barr J0807	Modern Schoolhouse Water You Waiting for? Let's Filter It!	ENEV
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Recognition

Junior

James Do J1306	Lake Pointe Academy The Effects of Fertilizer on Elodea Plant Growth and its Implication on Algae Growth	PLNT
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Senior

Ayla Sevilleno S0208	Mount Dora High School Mozart and the Art of Concentration	BEHA
Niya Patel S0312	Mount Dora High School Screening an Underrepresented Demographic, Lake County, through a Cumulative Questionnaire on Cardiocascular Health in Relation to Diet - Year 2	BMED

4 awards for Lake Region

Manatee STEM Competition

Fourth Place

Junior

Kinley McCaw J0108	Dr. Mona Jain Middle School How Are Fruit Fly Offspring Impacted by Climate Change?	ANIM
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Recognition

Junior

Malachi Summer J1109	Martha B. King Middle School Bro, Wash Your Face!	MICR
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2 awards for Manatee STEM Competition Region

Martin

First Place

Junior

Nina Goyal	Hidden Oaks Middle School	CMBI
J0402	A New Weed Management Strategy: RNA Interference Modification of Phytoene Desaturase (PDS) And 5-Enolpyruvylshikimate-3-Phosphate Synthase (EPSP) to Control Purple Nutsedge (<i>Cyperus rotundus</i>)	

Senior

Nira Goyal	Martin County High School	PLNT
S1305	Quantification of <i>Macrophomina phaseolina</i> Survival after Organic Soil Treatments Under Multiple Temperature Regimes	

Honorable Mention

Junior

Kira Lawless	Saint Joseph Catholic School	ANIM
J0103	Superworms	

Recognition

Junior

Samuel Calhoun	Saint Joseph Catholic School	ENEV
J0825	Solar Power in the Sunshine State	

Senior

Varun Singh	South Fork High School	ENMS
S0704	Self Filling Water Bottle Using the GWAC(Generation of Water using Atmospheric Conditions)	

Third Place

Junior

Elliana Lovatt	Stuart Middle School	ENEV
J0801	St. Lucie Inlet Sand Deposition	

6 awards for Martin Region

Monroe

Division Grand Award Winner And First Place

Junior

Parks Meadow Dunn J1329	Plantation Key School Microgravity vs Seed Germination	PLNT
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Fourth Place

Junior

Taylor Thomason J0729	Sugarloaf School Sorbent Oil Spills	ENMS
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Honorable Mention

Senior

Mia Milchman S1330	Coral Shores High School <i>Rhizophora mangle</i> Growth in Sunscreen	PLNT
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Recognition

Junior

Carol Alvarez J0640	Sigsbee Charter School Can't Flush This	EAEV
Samara Q. MacDonald J0640	Sigsbee Charter School Can't Flush This	EAEV

Third Place

Senior

Nina Bowen S1329	Key West High School The Effect of Aeration on Algal Blooms by Agricultural Runoff	PLNT
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6 awards for Monroe Region

Northeast Florida

First Place

Junior

Marco A Chua J0627	St. Paul's Catholic School - Riverside Wave Force Dissipation: Year Two	EAEV
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Fourth Place

Senior

Kristi Biswas S0325	Paxon School for Advanced Studies Elucidating TDP-43's Role in SYT7 Cryptic Exon Inclusion Reveals Novel Insights on ALS/FTD Pathology	BMED
William B Li S0411	Stanton College Preparatory School Investigating the Factors for p120 Catenin and PLEKHA7 Co-localization at the Adherens Junctions	CMBI
Yangying Jiang S0414	Stanton College Preparatory School ABCA7 Deficiency Disturbs Mitochondrial Properties in hiPSC-derived Neurons and Mouse Synaptosomes	CMBI
William R Rosenberg S1012	Episcopal High School Use of Unsupervised Machine Learning Algorithms to Identify Shared Bacteriophage Genomic Regions	MACO

Honorable Mention

Junior

Arnav Khanolkar J0716	Julia Landon College Preparatory Middle School Optimization of Photovoltaic Cell Performance using Static and Dynamic Orientation Models	ENMS
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Senior

Sara M Wasserman S0326	The Bolles School Effect of Anti-Inflammatories on the Growth and Treatment of Breast Cancer Cells	BMED
Nia E Atcherson S0415	Episcopal High School Role of ANGPTL4 in Regulation of Alpha-Synuclein Gene Expression	CMBI
Jacob Hobensack S0617	Bishop Kenny High School Alum Effectiveness for Improving Water Quality	EAEV
Parthiv T Reddy S1114	Episcopal High School The Effect of UV Light on Cyanobacteria Strains	MICR

Recognition

Junior

Joshua J Inocencio J0213	St. Paul's Catholic School - Riverside Could a Statement Being Positive or Negative Affect its Credibility?	BEHA
Noah N Neihaus J0412	Martin J Gottlieb Day School Effects of Number of Organisms on Speed of Nitrogen Cycle Completion	CMBI

Senior

Nyla T Searl S0412	Stanton College Preparatory School Investigating Pharmacodynamic Biomarkers in the PKCi-SOX2-Hh Signaling Pathway with LDE-225 and ANF	CMBI
Alan M Alwakeel S0915	Stanton College Preparatory School Using Artificial Intelligence to Diagnose Tumors in MRI Scans of the Brain	IMRS
Matthew E Salek S1210	Episcopal High School Plasma Diagnostics of Magnetically Confined Plasmas	PHYS

Sofia Davila	Episcopal High School	PLNT
S1318	Addition of Potassium to Make Lettuce More Drought Resistant	

Second Place Senior

Sarah C Park	The Bolles School	BEHA
S0217	Spark Care+: Personalized Music Therapy for Relaxation and Energizing Using a Mobile and AI Approach	
Tom C Commander	Episcopal High School	CHEM
S0515	Use of Magnetic Nanochains to Increase Drug Delivery and Efficacy in Glioblastoma Multiforme	
Ryan N Napoleon	Episcopal High School	EAEV
S0618	Nutrient Controlled Expression of Glut1 Gene in Diatoms for Enhanced Prevention of Eutrophication	

Third Place Junior

Andrew Lukaj	Saint Joseph Catholic School	ANIM
J0111	Effect of Calcium Carbonate on Hatch Speed of <i>Artemia salina</i>	
Juliana J Weldon	Christ the King Catholic School	BEHA
J0214	How does Visualization Affect Academic Performance in Middle Schoolers?	
Ashwin Venkatesh	Julia Landon College Preparatory Middle School	BMED
J0314	Blocking the Blue	
Mithra Vasanthan	Julia Landon College Preparatory Middle School	EAEV
J0628	Climate Change: How are Freshwater Organisms Affected?	
Abigail P Dooley	San Jose Catholic School	EAEV
J0629	Can Saharan Silver Ant Hair Structures Preserve Earth's Polar Ice?	
Lukas A Nye	Julia Landon College Preparatory Middle School	ENEV
J0815	Where Has This Energy Bean? Upcycling Spent Coffee Grounds	
Aaron D Zacharia	Julia Landon College Preparatory Middle School	ENEV
J0815	Where Has This Energy Bean? Upcycling Spent Coffee Grounds	
Viktoriia Galushchak	St. Paul's Catholic School - Riverside	IMRS
J0911	How Can People That Don't Know Sign Language Communicate with People That Use it?	

Senior

Riya Kar	The Bolles School	ANIM
S0115	The Role of VEGF-B and NRP-1 Axis in Regulating Mitochondrial Homeostasis in Ischemic Heart Disease	
Vineet A Khanolkar	Stanton College Preparatory School	BEHA
S0216	White Bears Paradox of thought Suppression : Evaluation of Determinants of Ironic Process Theory	
Claire M Huang	Episcopal High School	ENEV
S0818	The Energy Generation Efficiency and Storage Capability of a Novel Dye-Sensitized Solar Cell, Year 2	

30 awards for Northeast Florida Region

Osceola

Fourth Place Junior

Clara Silva J0215	Bellalago Charter Academy K-8 The Effect of Faith on the Brain	BEHA
Graycin Daly J0718	Canoe Creek K-8 How Strong Is 3-D Printing	ENMS

2 awards for Osceola Region

Palm Beach

Division Grand Award Winner And First Place

Junior

Kasey Tiffany Moore	American Heritage School of Boca/Delray	BMED
J0301	The Effect of Aloe barbenditis miller (Aloe Vera) in Regeneration of Eisenia fetida (Red Wiggler Earthworm) Cultured in a Prodiabetic Environment Using a High Sucrose Solution	

Senior

Maya Mohanty	American Heritage School of Boca/Delray	BMED
S0301	Utilizing Caulobacter crescentus to Target the Bcl-2 Gene and NF-KB to Cause Apoptosis in Nasal Squamous Cell Carcinoma	
Nolan Chen Wen	American Heritage School of Boca/Delray	CHEM
S0501	Development and Characterization of a Novel Instantaneous-Crosslinking Pectin-based Hydrogel	
Deeksha Kumaresh	American Heritage School of Boca/Delray	ENMS
S0702	A Novel Application of Microfluidics to Develop a Rapid and Cost-effective Objective Diagnostic Method for Parkinson's Disease	
Chloe Barreto-Massad	American Heritage School of Boca/Delray	MICR
S1102	In Pursuit of New Soil-based Bacteriophages that Infect Gordonia rubripertincta: Discovering Evergreen	

First Place

Junior

Julian James Cebollero	The Weiss School	ANIM
J0101	Tardigrade Tolerance to Extreme Temperatures	
Dylan Michael Kiesling	The Weiss School	IMRS
J0901	Interactive Virtual Reality Learning Program to Improve the Fractured STEM Pipeline	
Bhav Jain	Don Estridge High Tech Middle School	MICR
J1101	Studying the Antibacterial Properties of Curcumin and the Influence of Piperine	

Senior

Rohith Karthik	American Heritage School of Boca/Delray	BMED
S0302	Investigating the Effects of Vinblastine and Alpha Tocopheryl on A549 Lung Cancer Cells and Prostate Cancer Cells	
Samara Rashid	American Heritage School of Boca/Delray	ENEV
S0801	Effects of Artificial Algal-bacterial Symbioses (E. Coli K-12, C. Fruendii, & E. Coli MC4100) on Microbial Hydrogen Production	

Fourth Place

Junior

Caitlin Josephine O'Sullivan	A.D. Henderson University School	ANIM
J0102	Join the Shark Side: Digital Image Analysis of Shark Denticles to Determine the Effects of Denticle Density and Size on Speed	

Senior

Maya Behura	American Heritage School of Boca/Delray	ANIM
S0103	The Effect of HPI Axis Disruptions on Thrombocyte Production in Zebrafish	
Corynne Gabriella Pereira	Spanish River Community High School	BEHA
S0201	The Effect Of Frequency Changes on Danio rerio Spatial Memory	
Tara Muthuswamy	American Heritage School of Boca/Delray	BEHA
S0202	Determining the Relationship between Item Memory and Source Memory to Examine the Predictiveness of Medial Temporal Lobe Disease Development	

Shelly Ballaish	Spanish River Community High School	EAEV
S0601	The Effect of Water Levels on Danio rerio Reproductive Fitness and Embryonic Development: Year 2	
Siddhartha Gadamsetti	Suncoast Community High School	ENMS
S0703	Using Magnesium and CO2 as a Fuel Source for Future Mars Colonization Attempts	
Samhita Konuru	American Heritage School of Boca/Delray	ENEV
S0802	Repurposing Solar Membrane Distillation Systems as Efficient and Sustainable Irrigation Systems	
Ayush Gowda	Florida Atlantic University High School	IMRS
S0901	A 2D-Based Framework Using Artificial Intelligence for Biomechanical Analysis	
Gavin Anthony Martin	Palm Beach Central High School	PHYS
S1201	Detection of Meteor Activity with Various Lens Types	
Gavin J Emerick	Palm Beach Central High School	PLNT
S1302	The Effect of Predatory Stress on the Production of VOCs in the Roots of Solanum lycopersicum	

Honorable Mention

Junior

Savannah Cipyak	A.D. Henderson University School	CHEM
J0501	Image Analysis of Natural Shibori Indigo Dye on Various Textiles	

Senior

Dylan Thomas McClish	American Heritage School of Boca/Delray	IMRS
S0902	The Integration of a Deep Q Reinforcement Learning Algorithm to Optimize the Exploration Strategy of a Swarm Robot System	

Recognition

Junior

Anik Krish Sahai	A.D. Henderson University School	IMRS
J0902	The Nose Knows	

Senior

Sneha Ann Joseph	Palm Beach Central High School	EAEV
S0602	The Effect of Basalt Rock Dust on CO2 Levels, Proline Levels, and Growth of a Soybean Plant (Glycine max)	
Areesh Manohar Sobhani	American Heritage School of Boca/Delray	ENMS
S0701	The Development of a Hands-Free System to Automate the Control of Instrumental Amplifier Parameters	
Samer Elhoushy	American Heritage School of Boca/Delray	MICR
S1103	The Effect of a Novel Therapy to Optimize the Mechanism of Action in the Inhibition of <i>Staphylococcus aureus</i> Bacteria	
Ava Katherine Tracy	Florida Atlantic University High School	PLNT
S1301	Testing to See PVC Microplastics Effects on Raphanus sativus Plant Structure and Germination Rate	

Second Place

Junior

Michael Alonso Gomez	A.D. Henderson University School	BEHA
J0201	Glossophobia Prevalence in Native vs Non-Native English Speakers	
Tobias Lou White	The Weiss School	ENMS
J0701	Autonomous Boat for Collecting and Testing Water Quality in South Florida's Fresh Water Canals and Lakes	
Ben Liu	A.D. Henderson University School	PLNT
J1301	Ground Basalt Application to Agricultural Land as a Strategy for CO2 Sequestration	

Senior

Lia Lapidot	American Heritage School of Boca/Delray	ANIM
S0102	The Effect of Metformin on Reproduction in the Fruit Fly <i>Drosophila melanogaster</i>	
Sruthi Balasubramanian	American Heritage School of Boca/Delray	BMED
S0303	The Effect of Nicotinamide on the Il-6 Expression and Cell Count of Barrett's Esophagus Expressing Cells	
Isabella Lackner	Florida Atlantic University High School	ENEV
S0803	O.D.O.B.A (Object Detection Of Blood Abnormalities)	

Third Place

Junior

Arianna Lian	A.D. Henderson University School	CMBI
J0401	Investigating the Effects Of Ocean Acidification On Strombus alatus Conch Shells through Quantitative Image Analysis	
Lenny Jean Hanisko	Don Estridge High Tech Middle School	EAEV
J0601	An Exclamation On Acidification: The Relationship Between CO2 and Algae In Ocean Water	
Mili Mohanty	The Weiss School	EAEV
J0602	Comparing the Effects of Different Concentrations of Microplastics on Daphnia magna	

Senior

Aayushi Ranjan	American Heritage School of Boca/Delray	ANIM
S0101	Analyzing the Effects of Turmeric & Curcumin on Tau Aggregation & Amyloid Beta Plaques on <i>Caenorhabditis elegans</i> and its Further Implications into Alzheimer's Disease	
Ava Allwardt	St. Andrew's School	MACO
S1001	Computational Analysis of Human Antibody Repertoires to Inform Design of HIV-1 Vaccines	
Ruby Lily Aubin	Florida Atlantic University High School	PHYS
S1202	RUBES: Resonators Used in Building Emergency Sensors - Simulated	

39 awards for Palm Beach Region

Pasco

Fourth Place

Junior

Nidhi Kashyap J0403	Beacon of the Sea	Dr. John Long Middle School	CMBI
Aiden Kirkley J0805	Fire Detection Towers	Cypress Creek Middle School	ENEV

Senior

Dikembai Woodfill S0401	A Novel Approach to Mitigate Endoplasmic Reticulum Stress in Yeast by Inducing INO1 and INO2 Expression Pathways Using Lithium	Wiregrass Ranch High School	CMBI
Caroline McHale S1307	An Innovative Approach to Promoting Lignin Biosynthesis in <i>S. lycopersicum</i> Using Sound Waves	Wiregrass Ranch High School	PLNT

Honorable Mention

Junior

Ariana Alicea J1002	3D Distortion	Bishop Larkin Catholic School	MACO
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Senior

Karolina Porcelli S0308	Probiotics: An Innovative Solution to Lactose Intolerance	J. W. Mitchell High School	BMED
Andrew Lambert S0705	Developing a Novel Vehicle Sensor to Improve Driver Performance During Adverse Winter Weather Conditions	Wiregrass Ranch High School	ENMS

Recognition

Junior

Vandana Rajasekar J0703	Operation Cellphone Radiation	Starkey Ranch K-8	ENMS
Gabriel Foote J0903	Smart Sprinkling	Dayspring Academy Middle School	IMRS
Harold Boyce J1001	Watch Your Language	Paul R. Smith Middle School	MACO
Amelia Peeples J1304	The Effect of Different Sound Frequencies on Plant Growth	Raymond B. Stewart Middle School	PLNT

Senior

Kate Niehoff S0307	Developing a Novel Treatment Utilizing Nutraceuticals to Enhance Neuroprotective Benefits Against Stress in Neurodegenerative Diseases	Wiregrass Ranch High School	BMED
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Third Place

Junior

Josiah Mirville J0508	Polystyrene Power Up	Charles S. Rushe Middle School	CHEM
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13 awards for Pasco Region

Pinellas

Fourth Place

Senior

Ella Baum	Saint Petersburg Collegiate High School	ANIM
S0110	Biological Control of Ticks to Prevent Tick-Borne Illness Using Entomopathogenic Fungi	

Honorable Mention

Senior

Erin Glenn	Indian Rocks Christian School	BMED
S0315	The Effectiveness of an Alternative Shunt Design	

Recognition

Junior

Emmaline Gambino	Pinellas Park Middle School	ENMS
J0712	Using Wearable Health Technology	

Camila Vaca Aguirre	Pinellas Park Middle School	ENMS
J0712	Using Wearable Health Technology	

Third Place

Junior

Ella Belvedere Winogradsky	Sanderlin K-8 IB World School	CHEM
J0524	Spherification	

Senior

Aanya Bhandari	Palm Harbor University High School	ENEV
S0813	Calcium Batteries: A Green Alternative	

6 awards for Pinellas Region

Polk

Fourth Place

Junior

Mia Gindlesberger J0519	The Wait Is Killing Me!	Ridgeview Global Studies Academy	CHEM
Matias Quinonez Arguedas J1308	Rise of the Pumpkins	Resurrection Catholic School	PLNT
Ishaan Lakhani J1309	Plants in Outer Space	Lawton Chiles Middle Academy	PLNT

Honorable Mention

Junior

Teresa Zamora J0810	Rainwater as Drinking Water	Resurrection Catholic School	ENEV
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Second Place

Junior

Hunter Wilson J0517	Sugar Rush	Resurrection Catholic School	CHEM
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Third Place

Junior

Akshit Ladegaonkar J0645	Spills in Saltwater	Lawton Chiles Middle Academy	EAEV
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6 awards for Polk Region

Sarasota

Division Grand Award Winner And First Place

Junior

Aadi Bhensdadia J0733	Pine View School Utilizing 3D Additive Manufacturing to Develop a Biocompatible, Customizable, and Durable Mechanical Aortic Valve	ENMS
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Fourth Place

Senior

Anja Schwarzbauer S0125	Sarasota High School Evaluating the Effectiveness of the <i>Zophoba satratus</i> Superworm as a Method of Biodegradation for Polyethylene and Polypropylene Plastics Using a Cyanobacterial Supplement Catalyst	ANIM
Jessica Ritchie S0528	Sarasota High School The Effect of BPA and Endocrine Disruptor on Phytohormones in <i>Chlorella vulgaris</i>	CHEM
Anika Sackerlotzky S0634	Sarasota High School The Effect of Varying Oxybenzone Concentrations on Abscisic Acid Levels in <i>Dunaliella salina</i>	EAEV

Honorable Mention

Senior

Tyler Isaacson S0827	Sarasota High School Optimization of Paint Formulation for Antifouling Properties	ENEV
Riley Plank S0827	Sarasota High School Optimization of Paint Formulation for Antifouling Properties	ENEV

Recognition

Junior

Zachary Harshman J0325	Sarasota School of Arts and Sciences Development of a Patch to Protect Central Lines from Water Intrusion in Pediatric Cancer Patients	BMED
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Senior

Anna Davis-Lunardi S0342	Sarasota High School Observing the Effect of Suboptimal Temperature on the Behavior of <i>Escherichia coli</i> Encapsulated Inside Hydrogels	BMED
Rohan Dash S1023	Pine View School Using Novel AI Detection Systems to Identify Skin Abnormalities	MACO

Second Place

Senior

Nicholas Cox S0428	Sarasota High School Wastewater Treatment Chemicals' Effect on <i>Escherichia coli</i> WP2 pKM101 Mutation & Antibiotic Resistance Genes	CMBI
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10 awards for Sarasota Region

Seminole

First Place

Senior

Kevin Perez S1008	Crooms Academy of Information Technology Cryptographic and Empirical Evaluations of Strong Goldbach Conjecture with Sieving Algorithms and Fourier Transformations	MACO
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Fourth Place

Junior

Ethan Bai J0713	Sanford Middle School Solutions to Avoid Obstacles on the Road for an Autonomous Driving Car	ENMS
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Senior

Naman Doad S0213	Oviedo High School Associations between Activity in Frontal Lobe during Command-tasks Directed by Anthropomorphic A.I. and Emotional State, Perception and Efficiency	BEHA
Gargi Paranjape S0814	Oviedo High School Ion Exchange Treatment as an Alternative to Biologically Active Filtration (BAF) for Direct Potable Reuse	ENEV

Honorable Mention

Senior

Alicia Bomhoff S0212	Oviedo High School Recognition and Perceptions of Neural Network and Human Generated Metal Music	BEHA
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Recognition

Junior

Stella Pham J0409	Milwee Middle School Comparing the DNA Mass of Different Fruit Types	CMBI
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Second Place

Junior

Adhip Maitra J0312	Jackson Heights Middle School The Use of Deep Learning to Aid in the Early Detection of Ptosis in the Eye as a Possible Indicator of other Serious Diseases and Disorders	BMED
Shrinidhi Raghavan J0621	Seminole Science Charter School Desalination Innovation - A Foreseeable Solution to Drought	EAEV
Ankan Das J0909	Sanford Middle School A Novel Shape Memory Alloy-based Mobile Robot for Surveillance and Planetary Explorations	IMRS
Hannah Seth J1008	Sanford Middle School Facial Recognition Using Python	MACO

Senior

Arvid Vaidyanathan S1207	Winter Springs High School Anti-Static and Anti-Reflective Solar Panels for Dust free use on Earth, the Moon, and Mars	PHYS
Jenna Leiss S1312	Oviedo High School Effect of Lunar Highland Simulant Particle Size on <i>Tagetes patula</i> 's Root Structure and Growth	PLNT
Moitri Santra S1313	Oviedo High School Development of Novel Ocimum Sanctum-derived Biotherapeutic Nanoparticles for Potential Drug Delivery Applications	PLNT

Third Place

Junior

Arpita Kumar	Teague Middle School	BEHA
J0210	Age vs Memory (Year 2)	
Aiden Xu	Sanford Middle School	CHEM
J0525	Formulation of a Fragrant and Skin-friendly Mosquito/Insect Repellent and its Effectiveness Validation via Custom-designed Experiments	
Sanjit Prakash	Sanford Middle School	ENMS
J0714	Building a Solar Tracking Energy Estimator	
Priscilla An	Seminole Science Charter School	PHYS
J1218	Electromagnetic Spectrum vs Solar Panels: How Different Parts of the EM Spectrum Affect How a Solar Panel Charges a Battery	

Senior

Ella Pilacek	Oviedo High School	ANIM
S0111	Using Pavlovian Conditioning to Promote Attraction of <i>Apis mellifera</i> to the Endangered Orchid <i>Prosthechea cochleata</i> : Year 2	
Ethan Reshad	Oviedo High School	BMED
S0317	Exploring Tissue Viability and Tubule Formation of 3D Bio-printed MDCK and Canine Smooth Muscle Cells	
Anouska Seal	Hagerty High School	CMBI
S0406	Bone Implant Infection Therapeutics Leveraging a Novel Protein Coating Derived from <i>Lactobacillus acidophilus</i> and Modulating Pro-inflammatory Gene Expression and Osteogenic Activity	
Banmeet Singh	Oviedo High School	ENMS
S0710	Enhanced White Cane Object Detection for Visually Impaired Individuals Using Improved Sensors & Modules: Year 2	

21 awards for Seminole Region

South Florida

Fourth Place

Junior

Trulie Feingold J0636	Pastic Sporks	Ruth K Broad Bay Harbor K-8 Center	EAEV
Magnus Aguila-Roehr J1228	Synchronization	George Washington Carver Middle School	PHYS

Senior

James Cai S0329	Detecting Prostate Cancer from MRI Imaging Using Machine Learning	Miami Palmetto Senior High School	BMED
Jane Zhao S0330	The Identification of SOX7 as a Novel Susceptibility Gene for Autism through the Utilization of Multi-Omics and Human Brain Organoid Analysis	School for Advanced Studies	BMED
Lucas Gutman S1018	A Logistic Regression Model Representing the Genetic Landscape Differences between Bipolar Disorder 1 and Bipolar Disorder 2	iPrep Academy North	MACO

Honorable Mention

Junior

Benjamin Jauregui J1227	Cloudy with a Chance of Cosmic Rays	Archimedean Middle Conservatory	PHYS
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Senior

Luke Yang S0717	The Mini Magnetometer: Portable Alternating Current Magnetometer	Miami Palmetto Senior High School	ENMS
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Second Place

Junior

Alejandra Stephanie Perry J0538	An Alteration of Acidic and Alkaline Adhesives	Paul W. Bell Middle School	CHEM
Sophia Butori J0635	Power of Plastic	Ruth K Broad Bay Harbor K-8 Center	EAEV

Senior

Ethan Thomas S0917	Novel Deep Learning Approach to Assess Cardiac Function	Ransom Everglades School	IMRS
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Third Place

Junior

Elizabeth Dykxhoorn J0413	Plastic on the Brain	George Washington Carver Middle School	CMBI
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Senior

Sunny You S0627	Hurricane Rapid Intensification Convolutional Neural Network: A Novel Deep Learning Model for Predicting Tropical Cyclone Intensification Using Twenty Years of Satellite Rainfall Data	Miami Palmetto Senior High School	EAEV
Isabella Gonzalez S1326	The Effects of Simulated Microgravity on the Cherry Belle Radish (<i>Raphanus sativus</i>)	iMater Preparatory Academy High School	PLNT
Lisandra Lima Dapena S1326	The Effects of Simulated Microgravity on the Cherry Belle Radish (<i>Raphanus sativus</i>)	iMater Preparatory Academy High School	PLNT

15 awards for South Florida Region

St. Johns

Honorable Mention

Senior

Manish Kota	Creekside High School	CMBI
S0422	Investigating Cellular Localization and Aggregation Properties of Chimeric Dipeptide Repeat Proteins in C9ORF72-associated FTD/ALS	

Recognition

Senior

Hazel Parent	Ponte Vedra High School	BMED
S0335	Targeted Gold Nanoparticles Enhance Radiosensitivity of Pancreatic Cancer Cells in Vitro	

Kathryn Shapiro	Ponte Vedra High School	BMED
S0336	Sex Differences in Cardiac Energetics During Viral Myocarditis	

Third Place

Junior

Emma York	Freedom Crossing Academy	ENMS
J0728	Testing the Number of Thermoelectric Coolers (TEC) on a Solar Cell to Improve the Solar Cell Efficiency	

Senior

Benjamin York	Creekside High School	ENMS
S0719	Designing and Testing Heat Exchanger Types for Solar Preheating of Gas Turbine Combustion Air	

Lalit (Sailalit) Mudunuri	Ponte Vedra High School	IMRS
S0921	A Novel Approach to Electric Vehicle Battery Protection from Floods	

Aadithyaa Vishegu	Ponte Vedra High School	IMRS
S0921	A Novel Approach to Electric Vehicle Battery Protection from Floods	

7 awards for St. Johns Region

St. Lucie

Fourth Place

Senior

Dominique Thomas	Treasure Coast High School	CHEM
S0506	Color Wave - Investigating the Impact of Organic Dyes on Dye Sensitized Solar Cell Performance	

Honorable Mention

Junior

Aiden Hong	Pal Pointe Educational Research School	PLNT
J1310	Algae-rific	

Recognition

Junior

Camila Salcedo-Lind	West Gate K-8 School	BMED
J0308	Trendy Low Sugar Diets: What Is the Impact on Yeast Colonization in the Gut Biome?	

Second Place

Junior

Camilla Nieves-Rivera	Oak Hammock K-8 School	ENMS
J0708	Water Saver	

4 awards for St. Lucie Region

Suwannee Valley

First Place

Junior

Cyler Robinson	Fort White High School	CHEM
J0535	How Can The Dissolved Oxygen Concentration Be Increased In A Hydroponic Solution?	

Fourth Place

Junior

Cody Andrews	Lake Butler Middle School	CHEM
J0534	The Rubber Rivalry	

Honorable Mention

Junior

Kiley-Jo Harrison	Lake Butler Middle School	CHEM
J0533	Perplexed by Porous Paper Towels	

3 awards for Suwannee Valley Region

Thomas Alva Edison

Fourth Place

Junior

Emma Efenbein J0643	L. A. Ainger Middle School Which Compost Is the Best Plant food?	EAEV
Thor Wikman J0732	Charlotte Virtual School Improving Air Flight Fuel Efficiency: Percent Infill Of 3D Printed Airfoils vs Their Strength	ENMS
Shourigna Madishetty J1231	Paul Laurence Dunbar Middle School Dented Versus Non-Dented Instruments: Do Dents Matter on an Instrument?	PHYS

Senior

Aum Dhruv S0340	Fort Myers High School Development of a Low-Cost Machine Learning Diagnostic Device and Medical IoT Application as a Novel Approach to Combating Retinal Diseases	BMED
Yusef Mujtaba S0527	Fort Myers High School Tackling the Global E-Waste Problem: Constructing and Testing the Efficiency of Sustainable Cellulose-Derived Batteries	CHEM
Caroline Guerra S0722	Community School Naples Transforming Corn Husks and Plantain Peels into Eco-Friendly, Resourceful Bioplastics, 2nd Year	ENMS

Honorable Mention

Junior

Charlie Della-Luna J0544	Oak Hammock Middle School Rise Above the Rest! Which Sugar Substitute Reacts the Best?	CHEM
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Senior

Dhruva Sharma S1022	Fort Myers High School Optimizing Traffic Flow: Implementing Neural Networks And Deep RL Machine Learning Algorithms To Make Traffic Management More Effectual	MACO
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Recognition

Junior

Sephora Esperance J0219	Saint Andrew Catholic School The Rashomon Effect	BEHA
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Senior

Megan D'Souza S0427	Community School Naples Determining the Effect of Acetic Acid on Alginate Bead Membrane Permeability to Aid the Implementation of Allogeneic Transplantation without Immunosuppression	CMBI
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Second Place

Senior

Sonia Patel S0341	Community School Naples Corneal Applanation Scleral Buckling Model (C.A.S.B.M)	BMED
Morgan Barnes S0633	Canterbury School Utilizing Nutrient Enriched Biologically Activated Bioremediation Units as a Soil Amendment in a Cyclic Remediation System, 5th Year	EAEV
Adrian Deonarine S1119	Community School Naples The Effect of <i>Chaetomorpha linum</i> on Oxygen, Nitrogen, and Phosphorus Levels in a Hypoxic Environment	MICR

Kurukulasuriya Fernando	Dunbar High School	PLNT
S1334	Phytochemical Analysis and Comprehensive Evaluation of Antimicrobial and Antioxidant Properties of Six Native Plant Species: Innovations for Novel Drug Discovery	

**Third Place
Senior**

Advaith Menon	Dunbar High School	IMRS
S0927	LesionGAN: A Generative Adversarial Network-based Image Augmentation Algorithm to Improve CNN Performance in Lesion Detection	
Mason Huffman	Cape Coral High School	PHYS
S1219	Data Analysis of Gravitational Wave Signals Using Python	

16 awards for Thomas Alva Edison Region

Tomoka

Fourth Place

Junior

Layne Keeran J0509	Roasting Rainbow	New Smyrna Beach Middle School	CHEM
Tej Patel J0608	Which Produces More Electricity in a Microbial Fuel Cell? Mud vs Compost?	David C. Hinson Middle School	EAEV
Kaden Janania J1210	How Different Materials Affect Sound Absorption	River Springs Middle School	PHYS

Senior

Amy King S0605	Recycling Polyethylene Terephthalate to Reduce Plastic Waste	Burns Science and Technology Charter School	EAEV
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Honorable Mention

Senior

Alexander Mikheyenko S0105	Effects of Varied Concentrations of Polyvinyl Chloride Microplastics on the Early Embryonic and Post-Hatching Development of <i>Danio reirio</i> as a Model Organism	Spruce Creek High School	ANIM
Gabrielle Flynn S0205	How Does Verbal Positive Reinforcement Improve Student Performance Academically?	Spruce Creek High School	BEHA

Recognition

Junior

Rani Gupta J0609	Does the Conversion of Florida Marginal Land into Biomass Producing <i>Panicum virgatum</i> Change Soil Quality?	David C. Hinson Middle School	EAEV
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Senior

Ahmed Eldeeb S0604	Utilizing a Novel Two-Step Method of Ultraviolet Photocatalytic Oxidation with the Addition of Reusable Magnetic Nanoparticles for the Removal of Microplastics in Aquatic Environments	Spruce Creek High School	EAEV
Jacob Friedman S0604	Utilizing a Novel Two-Step Method of Ultraviolet Photocatalytic Oxidation with the Addition of Reusable Magnetic Nanoparticles for the Removal of Microplastics in Aquatic Environments	Spruce Creek High School	EAEV

Second Place

Junior

Ethan Muller J0510	Extracting Hydrogen Out of Water to Utilize as an Alternative Energy Source	Creekside Middle School	CHEM
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Third Place

Junior

Lilly Downs J0704	Optimal Gear Ratio of a Gravity Battery	Galaxy Middle School	ENMS
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11 awards for Tomoka Region

West Panhandle

Honorable Mention

Junior

Lilyana Durham J0204	Fear Factor	Holley Navarre Middle School	BEHA
Kyle Galloway J0303	Do Blue Light Filtering Glasses Improve Sleep Quality?	Saint Paul Catholic School	BMED
Kate Aldridge J0512	What's in Your Water	Saint Paul Catholic School	CHEM

3 awards for West Panhandle Region