

Alachua

Division Grand Award Winner And First Place

Senior

Nathan Wei	Buchholz High School	CHEM
S0512	Novel Elastomeric Polystyrene via Photopolymerization and Post-Functionalization of Durable Ultra-High Molecular Weight Perfluorostyrene Copolymers	
Sophia Rong	Buchholz High School	MACO
S1015	The Role of Cell-to-cell Transmission in HIV Infection: Insights from a Mathematical Modeling Approach, Year 2	

First Place

Junior

David Rong	Abraham Lincoln Middle School	MACO
J1009	Mushroom Mystery: Edible or Not?	

Senior

Abhith Kasala	Gainesville High School	EAEV
S0627	Global Microplastic Pollution- The Emerging Health Crisis: The Ecotoxicological Effects of Microplastics on Aquatic Organisms and Translating to Humans via A.I Machine Learning and A Novel Low Cost Water Filtration System	

Fourth Place

Junior

Charlize Moghaddam	Abraham Lincoln Middle School	PHYS
J1218	The Impact of Thickness and Material on Heat Transfer	
Ivan Shorter	Fort Clarke Middle School	PHYS
J1219	The Physics of Roblox	

Senior

James Jiang	Buchholz High School	ENMS
S0720	Engineering Bioinspired Smart Sensors	
Luke Xue	Buchholz High School	MACO
S1016	A Single Image Geometric Reconstruction for Robotics in Assisted Living	

Honorable Mention

Junior

Pranav Mannam	Abraham Lincoln Middle School	ENMS
J0718	The Relationship between Length and Lift	
Jaganesh Ramkrishnan	Abraham Lincoln Middle School	ENMS
J0718	The Relationship between Length and Lift	
Gavin Xie	Abraham Lincoln Middle School	ENMS
J0718	The Relationship between Length and Lift	

Second Place

Senior

Shiven Sharma	Eastside High School	BMED
S0330	Treating Aortic Diseases with Fish Oil Derivatives	

Third Place

Junior

Maggie Gao	Abraham Lincoln Middle School	ENEV
J0817	Removal of Lead from Water by Phosphate Modified Biochar	

J1322 Global Microplastic Pollution - The Emerging Health Crisis: The Ecotoxicological Effects of Microplastics on Aquatic Organisms and Translating to Humans via A.I. Machine Learning and A Novel Low-Cost Water Filtration System

14 awards for Alachua Region

Big Springs

Fourth Place

Junior

Riley O Law J0617	Flip the Norm	Wildwood Middle High School	EAEV
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Senior

Delaney Peterson S0114	Effect of Aggregate Size on Oyster Spat Recruitment	Belleview High School	ANIM
Jose Carvajal-Beltran S1212	Analysis of Optimal Rotor Shape: Year 3	Wildwood Middle High School	PHYS
Ava Ehinger S1317	Ozonated Water's Effect on the Quality of Common Green Beans	The Villages Charter High School	PLNT

Honorable Mention

Junior

Ally Kline J0515	Which AA Battery Brand Lasts the Longest?	The Villages Charter Middle School	CHEM
Nathaniel C Cordes J1214	What's the Point?	The Villages Charter Middle School	PHYS
Dash E Figgins J1315	Does the pH Level in Soil Affect its Plant Growth?	The Villages Charter Middle School	PLNT

Senior

Kadie Mariano S0113	Male Aedes aegypti: Biotic Effects of Chilling Associated with an SIT Program	Wildwood Middle High School	ANIM
Nadia J Cardoso S0211	Bilingual vs Monolingual: Who Has the Most Cognitive Control?	Wildwood Middle High School	BEHA
Miguel Secillano S0911	TALK- An American Sign Language Computer Program	Vanguard High School	IMRS

Recognition

Junior

Elijah R Pyle J0812	What Blade Ends Are most Efficient for Water Turbine Design?	Saint John Lutheran School	ENEV
Maeve Cheshire J1108	Which Liquid Hand Soap Removes the most Bacteria?	The Villages Charter Middle School	MICR
Sophia Hernandez-Rojas J1320	Lima Beans on the Rise	South Sumter Middle School	PLNT
Megan E Hunt J1320	Lima Beans on the Rise	South Sumter Middle School	PLNT

Second Place

Junior

Megha Sandrapaty J0715	Optimizing the Design of a Piezoelectric Hydrophone for Best Underwater Detection	Osceola Middle School, Ocala	ENMS
Abigail M Lightle J1215	Newtonian Orbital Simulation of the Terrestrial Planets	The Cornerstone School	PHYS

Senior

Rishit A Shaquib	Vanguard High School	MICR
S1114	Next-Generation Antibiotics: Isolating and Screening Novel Bacteriocins	

Third Place

Junior

Abigail Byrne	The Villages Charter Middle School	CHEM
J0514	Detergent Designs	

Gerardo Cardoso	Wildwood Middle High School	MICR
J1109	Does the Utilization of Raw Honey, Hot Honey, Garlic and Cayenne have any Effect on Bacterial Inhibition	

Olivia I. Sokol	Wildwood Middle High School	PLNT
J1317	From Soil to Sponge: Harnessing the Power of Substances to Enhance Water Retention	

Jacob A Sokol	Wildwood Middle High School	PLNT
J1317	From Soil to Sponge: Harnessing the Power of Substances to Enhance Water Retention	

Senior

Alynza I McBride	South Sumter High School	EAEV
S0623	Tree Rings as a Potential Monitoring Tool for Saltwater Intrusion	

22 awards for Big Springs Region

Brevard: Intracoastal

Fourth Place

Senior

Julia Cohen-Pinsky S1117	Satellite High School	MICR
Assessing the Antimicrobial Properties of Melittin on <i>Escherichia coli</i> , <i>Staphylococcus epidermidis</i> , <i>Fusobacterium</i> , and <i>Bacillus</i> Strains of Bacteria Creating a Pseudo Microbiome and its Overall Impact on HER2-enriched SK-BR-3 Breast Cancer Cell Spheroids		

Honorable Mention

Senior

Alexander L Ferland S0511	Edgewood Jr/Sr High School	CHEM
Improving The Environmental Sustainability of Launchpad Structures by Understanding How Corrosion Rates of Common Structural Metals are Affected by Realistic Launchpad Environmental Conditions		
Charley Kennedy S0913	Satellite High School	IMRS
Revolutionizing Flood Prediction: Quantum Machine Learning for Spatial Modeling		

Recognition

Junior

Ethan J Landreville J0110	Edgewood Jr/Sr High School	ANIM
The Effects of Hurricanes on Migrating Warblers: a Case of Small Birds Falling Out of The Sky		
Lindsey A Brown J0621	Edgewood Jr/Sr High School	EAEV
Novel Residential Insulation Systems		
Cassis H Kroll J0622	Hoover Middle School,	EAEV
The Effect of Fertilizer Runoff on Pyrocystis		
Isaac S Dalton J1217	Hoover Middle School,	PHYS
The Effect of Zinc and Aluminum Oxide Nanoparticles on Polycrystalline Solar Cells		

Senior

Jayda Holman S0626	Satellite High School	EAEV
Enhancing Coastal Ecosystems and Water Quality: Utilizing Montmorillonite Clay Structures for <i>Crassostrea virginica</i> Restoration and Advanced Filtration Systems		
Arnav Jain S1014	Edgewood Jr/Sr High School	MACO
Using Novel Mathematical and Computer Simulation Methodologies to Develop an Ocular Injury Prevention Apparatus		

Second Place

Junior

Averi B Bourgoin J0717	DeLaura Middle School	ENMS
Knock Knock! Lock		
Wesley P Kettering J1321	Hoover Middle School,	PLNT
Comparing the Effects of Hydrogel and Hydroponics on the Growth of <i>Lactuca sativa</i>		

Senior

Sarah Miller S0329	Satellite High School	BMED
Creation of a Dystrophin Deficient Skeletal Muscle Cell Culture Model to Screen for Treatments for Duchenne Muscular Dystrophy		
Emilee Mangual S0419	Satellite High School	CMBI
NanoFusion: Revolutionizing CRISPR/Cas9 Delivery to MCF-7 Adenocarcinoma Via Exosome-Liposome Synergy		
Cameron J Gehlman S1218	Edgewood Jr/Sr High School	PHYS
Effectiveness of Diurnal Passive Radiative Cooling Paint in Near Space Conditions		

Third Place

Junior

Ella K Drapeau J0111	Hoover Middle School, The Future of Pelican Island as a Sanctuary for <i>Pelecanus occidentalis</i>	ANIM
Ellie M Morrissey J0214	Hoover Middle School, The Effect of Music Tempo on Memory in Children with Autism	BEHA
Evan N Mellor J0815	Hoover Middle School, A Cellulose NanoFibril Water Filtration System	ENEV
Mackenzie D Little J1111	Hoover Middle School, Seagrapes as Our Savior!	MICR

Senior

Megan Hunsaker S0215	Satellite High School Unlocking the Mind: Exploring the Cognitive Effects of 1.3D Fractals on Brain Activity and Emotions in Under 90 Seconds	BEHA
Sharanya S Natarajan S0814	Edgewood Jr/Sr High School An Integrated Algae Mitigation System to Seek & Abate Harmful Algal Blooms (Year 5)	ENEV

20 awards for Brevard: Intracoastal Region

Brevard: Mainland

First Place

Junior

David Raguindin J1112	Pinecrest Academy Space Coast Battling Sepsis at the Source: Creating an Antimicrobial Solution to Be Used on Severe Burn Patients	MICR
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Fourth Place

Junior

Maxwell W Cope J0629	Space Coast Jr/Sr High School A Clearer Solution: Which Subtype of Iron Oxide (Fe ₂ O ₃) Removes the Highest Concentration of Nanoparticles from Polluted Water?	EAEV
Delaney K Hermes J0629	Space Coast Jr/Sr High School A Clearer Solution: Which Subtype of Iron Oxide (Fe ₂ O ₃) Removes the Highest Concentration of Nanoparticles from Polluted Water?	EAEV

Senior

Dominic A Tosi S0217	Melbourne High School, Pedagogical Labyrinths: Deciphering the Enigma of Effective Instruction	BEHA
Gabriel Sarabjit S0924	Melbourne High School, Developing an Infrastructure to Monitor, Record, and Evaluate the Condition of Storm Drains for the Prevention of Pollutant Runoff	IMRS
Lucas Sarabjit S0924	Melbourne High School, Developing an Infrastructure to Monitor, Record, and Evaluate the Condition of Storm Drains for the Prevention of Pollutant Runoff	IMRS

Honorable Mention

Senior

Kaedin S Delaney S0727	Melbourne High School, Creating a Novel Form of Plasma Jet Engine	ENMS
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Recognition

Junior

Dylan R Morrison J0217	Ascension Catholic School Time: The Ultimate Study Guide	BEHA
Ronald (Trey) E Sturm J0217	Ascension Catholic School Time: The Ultimate Study Guide	BEHA

Senior

Aiden Wright S0126	Satellite High School, The Effectiveness of Superoxide Dismutase BAP1 Mutated <i>Caenorhabditis elegans</i> Year: III	ANIM
Emma P Schaff S0635	Melbourne High School, The Effects of Ocean Acidification on Calanoid Copepods	EAEV

Second Place

Senior

Sophia M Weiner S0728	Holy Trinity Episcopal Academy Detecting Myofascial Tightness in Order to Reduce Undiagnosed Pain - Year 2	ENMS
Aswath Rajesh S0821	Viera High School BioRegen Polymer: Transforming Seafood Industry and Paper Waste into Biodegradable Polymers	ENEV

James W Egdorf	Viera High School	PHYS
S1225	Developing an Applicable Design for Cylindrical Non-Contact Triboelectric Nanogenerators to Harvest Hydraulic Energy for Sensing and Detection (Year 5)	

Third Place

Senior

Alex J Warren	Melbourne High School,	ANIM
S0125	Using an Artificially Mixed Zooxanthellae Solution to Negate the Stress of <i>Xenia elongata</i>	
Enzo B Carter	Melbourne High School,	PHYS
S1226	Comparing the Amount of Noise in Quantum Computers and Entangled Photons Produced by Spontaneous Parametric Down-Conversion when Producing Bell States	
Alina Zaidi	Holy Trinity Episcopal Academy	PLNT
S1327	Silver Armor Against Bacteria: A Battle of Antimicrobial Effectiveness	

17 awards for Brevard: Mainland Region

Brevard: South

First Place

Senior

Rushil S Shah	West Shore Junior/Senior High School	BEHA
S0201	Understanding the Impact of Celebrity Endorsements on the Artificial Growth of Cryptocurrencies Using a Multi-Dimensional Latent Class Analysis and a Software Based Approach (Year 3)	

Fourth Place

Junior

Riya Reddy	West Shore Junior/Senior High School	BMED
J0307	The Effect of Moringa Oleifera Leaf Extract on the Proliferation of <i>Saccharomyces cerevisiae</i> (baker's yeast).	
Henry M Pennington	West Shore Junior/Senior High School	ENMS
J0709	How do Different Bladed Propellers Affect a Drone's Performance	
Jace A. Lauer	Home-School	MACO
J1005	A Novel Analysis of Fibonacci Sequences	

Senior

Pranav Ponnusamy	West Shore Junior/Senior High School	ENMS
S0707	3rd-Eye: A Novel Embedded Suite of Drive Attentiveness Monitoring Tools Using Machine Learning (Year 3)	
Eshan Vipuil	West Shore Junior/Senior High School	MACO
S1002	Designing a Web App to Visualize 3D Blood Flow Patterns in Cerebral Aneurysms	

Honorable Mention

Junior

Ahana A Gonwar	West Shore Junior/Senior High School	BEHA
J0207	How Do Different Types of Brain-Stimulating Games Help Cure Memory and Social Skills	
Preston T Kennedy	West Shore Junior/Senior High School	CMBI
J0403	Investigating the Chemical and pH Effect of Photosynthesis Output of <i>Scenedesmus quadricauda</i> via Sodium Bicarbonate	
Keerthi K Patsamatla	West Shore Junior/Senior High School	IMRS
J0907	Designing a Novel Medicine Tracking System utilizing App-Integration to Enhance Health Monitoring for Patients with Cognitive Impairments	

Senior

Thien-Nhi A Nguyen	West Shore Junior/Senior High School	CMBI
S0404	The Effect of Liposomes on Drug Delivery of Ascorbic Acid	
Julisha I Jean-Jacques	Bayside High School	ENMS
S0706	The Touchless Instrument	
Christopher D Estevez	West Shore Junior/Senior High School	ENEV
S0805	Advancement in Autonomous Research Vessel Technology: Design and Construction of a Shallow Water Collection Model	
Ioana L Silaghi	West Shore Junior/Senior High School	IMRS
S0906	Red Light, Green Light: Adaptive Traffic Signal Preemption for Emergency Vehicles	

Third Place

Junior

Arya S Kulkarni	West Shore Junior/Senior High School	ANIM
J0104	Which Home Found Remedy Kills <i>Amoeba proteus</i> ?	

Sankeerth R Kesireddy	West Shore Junior/Senior High School	ENEV
J0807	Container for Growing Plants with Soil in a Microgravity Environment.	
Claudia G Miranda	West Shore Junior/Senior High School	PLNT
J1308	Will Pre-chilled Seeds Have a Higher Mortality Rate When Frozen Again?	

16 awards for Brevard: South Region

Broward

Division Grand Award Winner And First Place

Senior

Emma M Colarte Delgado	American Heritage School, Plantation	CMBI
S0427	Evaluating the Effect of Anti-inflammatory Sex Hormones to Model the Age and Gender Discrepancy in Alzheimer's Disease Using <i>C. elegans</i> as a Model Organism	
Peter W Lansing	Pine Crest School	PHYS
S1228	Using LTE Modeling to Find Unique Molecular Tracers for Star Formation Processes in the Central Molecular Zone of the Milky Way	

First Place

Senior

Jonah G Ferber	Pine Crest School	BMED
S0345	Discovery of rs887829 as the Genetic Polymorphism Responsible for Reduced UGT1A1 mRNA Expression in a Diverse Cohort	
Calvin T Mathew	American Heritage School, Plantation	ENMS
S0730	Continuous Hemodynamics Monitor: Novel Smart Sensor for Real-Time Postoperative Cardiac Care	

Fourth Place

Junior

Layan Lili Abuelhommos	Alazhar School	BMED
J0330	The Effect of Smoking and Vaping on Daphnia and Daphnia Embryos	
Zara Sheikh	Selah Tawfik	CMBI
J0410	The Effects of Azo Dyes on the Anxiogenic Behavior and Habitual Memory of Planaria Worms	
Sophia L Fatteh-Patil	Alazhar School	EAEV
J0635	The Impact of the Addition of a Living Roof on the Absorption of Heat with Different Colored Concrete Roof Tiles	

Senior

Tyler E Greene	NSU University School	PHYS
S1229	Securing Hydrocephalus Shunt Systems: Investigating the Faraday Cage's Influence on Electromagnetic Field Study	
Sofia E Teifeld	NSU University School	PHYS
S1229	Securing Hydrocephalus Shunt Systems: Investigating the Faraday Cage's Influence on Electromagnetic Field Study	

Honorable Mention

Junior

Karam Abedshakour Hamadadneh	Alazhar School	BMED
J0324	The Effect of the Chemicals in Common Food Items on <i>Daphnia magna</i>	
Nadia Fagien	Alazhar School	EAEV
J0633	The Effect of Sodium Laureth Sulfate on Aquatic Life	
Beatriz Y Assano	American Heritage School, Plantation	EAEV
J0637	The Effects of Population in Different Cities' Tap Water on the Amount of Microplastics	

Recognition

Junior

Ayah Murtada	Alazhar School	BMED
J0326	Preventing Infection: Increasing Circulation in Diabetic Wounds	
Ella M Delgado	American Heritage School, Plantation	ENEV
J0823	The Effect of Different Types of Algae on Biotextiles Elasticity	

Daniel Jitari	Indian Ridge Middle School	PHYS
J1230	The Impact of Boiling on Electrochemical Efficiency in a Potato Battery	

Senior

Rebeca C Greco	Cypress Bay High School	CHEM
S0520	A Novel Approach to Aqueous Nitrate Concentration Detection Using Chromotropes and UV-Visible Spectrophotometry	

Aidan B Lacayo	Cypress Bay High School	CHEM
S0520	A Novel Approach to Aqueous Nitrate Concentration Detection Using Chromotropes and UV-Visible Spectrophotometry	

Second Place

Junior

Ivan A Kalashnykov	American Heritage School, Plantation	ANIM
J0116	Assessing Clove's (<i>Syzygium aromaticum</i>) Neuroprotective Qualities in Zebrafish Embryos Induced with 6-Hydroxydopamine to Model Parkinson's Disease	

Colton J Poppe	American Heritage School, Plantation	EAEV
J0639	The Effects of Different Plant Extracts on the Removal of Microplastics from Salt Water	

Senior

Kamilat B Mustapha	American Heritage School, Plantation	CHEM
S0519	Targeting SLC3A2 Expression with Antisense Oligonucleotides to Overcome Cisplatin Resistance in Head and Neck Squamous Cell Carcinoma	

Iris Fan	American Heritage School, Plantation	CHEM
S0523	A Novel 3D-Printed Nerve Implant for Neuroglial Regeneration: Advancing Central Nervous System Recovery and Repair	

Lorenzo V Pulmano	American Heritage School, Plantation	EAEV
S0638	Improvements to the CNN Ensemble for Predicting Eyewall Replacement Cycles	

William C Wakefield	Pine Crest School	IMRS
S0926	Variational Autoencoder as a Robust Clinical Classification Tool for Dementia	

Annika M Sachdeva	Pine Crest School	MACO
S1022	Utilization of Weighted Normalization to Improve Medical MNIST Disease Classification with a ResNet18	

Anik Bora	American Heritage School, Plantation	PLNT
S1329	Creating a Land Usage Model to Predict Optimal Crop Locations Using Convolutional Neural Networks	

Third Place

Junior

Emi Optekar	NSU University School	BEHA
J0219	Can Improv Be Used to Improve Creativity and Divergent Thinking?	

Tasnim Hicham Mabchour	Alazhar School	EAEV
J0632	The Effect of Natural Solutions on the Heart Rate and Survival Rate of <i>Daphnia magna</i> after being affected by an Environmental Pollutant	

Scarlett R Asselta	American Heritage School, Plantation	EAEV
J0636	The Effect of Adenosine Triphosphate on <i>Tenebrio molitor</i> Polystyrene Consumption	

Eliana T Brody	Apollo Middle School	EAEV
J0643	What Puts the Meal in Mealworm? An Experiment of Plastic Eating Worms	

Senior

Akshay Kumar	American Heritage School, Plantation	BEHA
S0219	Use of Pueraria montana Extracts as Novel Treatments for the Dysfunctional Dopaminergic Neurons Seen in ADHD	

Hanna J Zhang	American Heritage School, Plantation	BMED
S0342	The Effect of Intermittent Fasting on Immune Defense to Bacterial Infection in <i>Drosophila melanogaster</i>	
Chloe Rhea	Pine Crest School	BMED
S0346	Analyzing Secreted PDZD2 as a Possible Therapeutic Agent for the Treatment of AML Using a Model of Premalignant Tet2 KO HSPCs	
Noah-Duro C Andre	American Heritage School, Plantation	MICR
S1121	Isolating, Screening, and Identifying Bacteria and Fungi Found Within Mangrove Soil In South Florida for Accessible Antimicrobial Natural Products	
Anagha L Iyer	American Heritage School, Plantation	MICR
S1122	A Novel Approach to Wastewater Spill Remediation: Isolation, Identification, and Encapsulation of Bacteriophages for Pathogen Mitigation	

34 awards for Broward Region

Capital

Fourth Place

Junior

Medha Konda J0619	Maclay School Testing Sustainable Alternatives to Plastic	EAEV
Bleakley Shettle J0619	Maclay School Testing Sustainable Alternatives to Plastic	EAEV

Senior

Himank M Chhaya S0509	James S. Rickards High School Investigation of Kagome-Lattice Magnets of 4f and 3d Metals	CHEM
Raami Abichou S0811	Lawton Chiles High School Detection and Localization of Methan Emissions	ENEV

Honorable Mention

Junior

Joseph B McSoley J0813	Trinity Catholic School How Efficient Are Water Filtration Systems?	ENEV
Landon W Huber J1216	Christ Classical Academy Blocking EMFs: The Most Effective Shielding Materials	PHYS

Recognition

Junior

Nigel Coleman J0313	Elizabeth Cobb Middle School Are You Really Protected While You Are Having Fun in the Sun?	BMED
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Third Place

Senior

Suhani Gawde S0321	Maclay School Does E-cigarette Exposure during Pregnancy Affect GABA Neuron Migration?	BMED
Jonathan George S0322	James S. Rickards High School "Gut Feeling": Exploring <i>Lactobacillus reuteri</i> and its Potential Role in Alleviating Neuroinflammation in Alzheimer's Disease	BMED
Mikhail D Abraimov S0713	Lawton Chiles High School Calculation of Bike Route Distance Using Concept of Fractal Dimension	ENMS

10 awards for Capital Region

Citrus

Fourth Place

Junior

Myles Brennan-Kocher Leazott J1309	Saint John Paul II Catholic School Martian Munchies: The "Poo-tential" of Biosolids in Space Farming	PLNT
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Honorable Mention

Junior

Nikhil John Pasupuleti J0611	Lecanto Middle School Lettuce Talk Hydroponics	EAEV
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Senior

Diya Jayesh Patel S0204	Lecanto High School What Is the Correlation between CVD Death Rates and Universal Healthcare in 50 Countries in 2019?	BEHA
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3 awards for Citrus Region

Clay Rotary

Recognition Senior

Angel Zheng S0723	Ridgeview High School	ENMS
Waterproofing and Experimentation of Servo Motors: Obstructing Water Intrusion in the SG90 Servo Motor and Muizei 25KG Servo Motor in Submarine Robotics Needing to Achieve Angles of 90, 180, and 270 While Utilizing Programming Language C and the Arduino Programming Integrated Development Environment Running on Raspberry Pi		
Austin C Hallett S1222	Clay High School	PHYS
Ionic Wind: A Novel Approach for Generating Thrust Utilizing Electric-Powered Propulsion		

Second Place Senior

Gracelynn R Beckham S0335	Clay High School	BMED
An Evaluation of Potential Advances in Limb Immobilization for Orthopedic Healing		

3 awards for Clay Rotary Region

Collier

First Place

Senior

Colin Briggs	Gulf Coast High School	IMRS
S0904	ArrowHead a Deep Learning Logic, Operationally Improved Standard for Java Space/Time Complexity Throughout Using O Notation Metaphysical Algorithm Derivations	

Fourth Place

Junior

Milo Westberry	Pine Ridge Middle School	PHYS
J1204	Solar Saplings: Solar Tree Size Effect on Photovoltaic Output	

Honorable Mention

Senior

Alexander Ewy	Aubrey Rogers High School	EAEV
S0608	The Green Lungs: Unmasking Plants' CO2 Efficiency by Measuring How Quickly Local Species can Remove CO2	

Recognition

Junior

Harold Hoffmann	Community School, Naples	PLNT
J1307	Does the Coarseness of Hydrogels Affect Plant Growth?	

Senior

Sarah Dabees	Aubrey Rogers High School	CHEM
S0502	Electrolytic Water Splitting Process for the Mitigation of Ocean Acidification and the Harnessing of Hydrogen as a Fuel Source	
Isabella Lala	Gulf Coast High School	MICR
S1106	Bacterial Resistance	

Second Place

Junior

Lily Fletcher	Pine Ridge Middle School	BMED
J0306	Regenerating Planaria with Different LED Lights	

Third Place

Junior

Oliver Schwartz	Pine Ridge Middle School	BMED
J0305	Enhancing Durability Through Stitching: An Investigation into Various Sutures Techniques	
Eva Golian	Oakridge Middle School	CHEM
J0508	Thermal Shield for Hair: A Test of Protection Sprays	
Andrew Laureo	Gulf Coast Charter Academy South	IMRS
J0906	Identification of Brain-Eating Amoeba Using Deep Learning	
Brendan Burns	Pine Ridge Middle School	PHYS
J1203	Which Natural Plant-Based Dye Will Offer the Best Ultraviolet Protection from the Sun?	

11 awards for Collier Region

Dr. Nelson Ying Expo - Orange

Division Grand Award Winner And First Place

Junior

Aakash Manaswi	Lake Highland Preparatory School	ANIM
J0114	A Novel Investigation Using Carbon Dioxide for <i>Varroa mites</i> Treatment in Honey Bee Colonies	

Senior

Atreya Manaswi	Orlando Science High School	ANIM
S0127	Year 5: Engineering a Novel IoT Trapping System with a Multiple Linear Regression Model Towards Eco-Friendly, High-Efficacy, Low-Cost Honey Bee Pest Treatment and Management	

First Place

Junior

Ayaan Patel	Orlando Science Middle School	BEHA
J0218	What Is the Effect of Color on Memory for Ages 60+?	
Anishka Jindal	Orlando Science Middle School	PHYS
J1229	Space Sprout Spectrum: Understanding Germination in Microgravity	

Senior

Dylan Wang	Trinity Preparatory School	BMED
S0339	Quantitative and Qualitative Analysis of a 22-base Pair Insertion in GBM EV NANO GP8 DNA in Different GBM Cell Lines	
Tiffani Gay	Orlando Science High School	ENEV
S0822	Year II: Resistant Electromagnet Propulsion for Petroleum Removal Employing Biocompatible Magnetorheological Fluid in Oil Spill Applications	

Fourth Place

Junior

Anya Bollineni	Orlando Science Middle School	PLNT
J1330	How Do Salinity Levels Impact Plant Growth?	

Senior

Ashna Mathur	Lake Highland Preparatory School	ENMS
S0729	Biodegradable Magnesium-Based Implants for Bone Repair: Corrosion Properties of Different Magnesium-Based Samples (Year 2)	
Mahie Mangesh Patil	Orlando Science High School	MICR
S1120	A Novel Biodegradable Sorbent for Oil Spills, Year 2	
Jerry Chen	Trinity Preparatory School	PHYS
S1227	Fabrication of Superhydrophobic Materials Through Femtosecond Laser Ablation	

Honorable Mention

Junior

Tala Hnaihen	Leaders Preparatory School	CHEM
J0524	Micro Charge	

Senior

Neha Harish Patil	Lake Highland Preparatory School	MACO
S1021	Frequency Domain Analysis of Unipolar Electrograms Identifies Presence of Mid-Myocardial Fibrosis, Year III	

Recognition

Junior

Olivia Ada Gulsoy	Lake Eola Charter School	EAEV
J0630	Making Tea Waste Into Eco-Energy	

Second Place

Junior

Malak Yehai Salem	Leaders Preparatory School	CMBI
J0409	How Does the pH Affect the Activity of the Trypsin in Terms of Reaction Rate and Efficiency?	
Aarit Dixit	Orlando Science Middle School	ENEV
J0821	The Solar-Powered Irrigation System	
Adrian Jose Alvarez	Lockhart Middle School	IMRS
J0918	Year 1: Designing a Plant Disease Suppression Robot	

Third Place

Junior

Sarah Larche	International Community School	BMED
J0323	Wipeout Allergens: An Examination of Best Cleaning Practices	
Anishka Sharma	Orlando Science Middle School	ENMS
J0728	Centrifuge	
Abigail Merchant	Orlando Science Middle School	IMRS
J0917	A Novel Approach for Epileptic Seizure Prediction Using an Artificial Intelligence (AI) and Machine Learning (ML) Algorithm Augmented Brain Computer Interface (BCI) and Electroencephalography (EEG) Data - Year 2	
Gauri Borkar	Orlando Science Middle School	MACO
J1012	Stock Market: The Unpredictable	

Senior

Harris McIntyre Layson	Lake Highland Preparatory School	BEHA
S0218	The Effects of Guilt Induction When Negotiating with Hostile AI Agents Using the Interactive Arbitration Guide Online (IAGO) Program	
Aanvi Mathur	Orlando Science High School	CHEM
S0518	Comparing Plasmonic Properties of Solid and Hollow Gold and Silver Nanoparticles for Early Diagnosis and Disease Detection	

22 awards for Dr. Nelson Ying Expo - Orange Region

East Panhandle

Fourth Place

Junior

Moira K. Reyenga	Okaloosa STEMM Academy	ENEV
J0820	Biorock	

Honorable Mention

Junior

Christopher G. Nicoloff	Okaloosa STEMM Academy	ENMS
J0726	Telescope Tracking	

Senior

Zack J. Hirschinger	Magnet Innovation Center	ENEV
S0819	How the Angle and Indentation of a Hydroelectric Turbine Affects the Power Generated	

Recognition

Junior

Jaylyn B. Contento	Okaloosa STEMM Academy	CHEM
J0521	Filtering Water - Featuring: Graphene	

Caden J. Crawley	Okaloosa STEMM Academy	ENMS
J0725	The Perfect Propeller: The Effect of Drone Propeller Shape on Weight the Drone Can Carry	

Elena R. Henderson	Okaloosa STEMM Academy	IMRS
J0915	How Do You Make and Program a Robot to Avoid Obstacles?	

Senior

Zoe E. Orange	Paxton High School	ENEV
S0820	επαναφ?ρω A Natural and Cost-Effective Process of Bioremediation for Contaminated Soils.	

Second Place

Junior

Emmalynn L Otzenberger	Okaloosa STEMM Academy	PHYS
J1227	Cooler House, Less Material	

Third Place

Junior

Ian W. Allen	Okaloosa STEMM Academy	PHYS
J1226	Shining bright: Exploration of Phosphorescent Materials under Different Conditions	

Senior

Aurora J. Mendenhall	Niceville High School	MACO
S1020	International Math Sign Language (IMSL): Standardizing a "Universal Language" for the Deaf Community	

10 awards for East Panhandle Region

Heartland

Fourth Place

Senior

Jackson W. Holcomb	Okeechobee High School	EAEV
S0613	Growing More With Less: Determining the Application Frequency of Microbes on Sod - 2-Year Study	

Honorable Mention

Junior

Makenna C. Nolte	Yearling Middle School	EAEV
J0612	Does Prescribed Burning Have an Effect on Lovebugs?	
Laurel G. Ryan	Osceola Middle School	PLNT
J1313	Magnetic Miracle Gro!	

Recognition

Senior

Ashton T. Ponzo	Okeechobee High School	BEHA
S0205	Testing Chocolate?	
Alana N. Wyckoff	Hardee Senior High School	MICR
S1110	Do Natural Antibiotics Work Better than Synthetic Antibiotics?	
Emma Jane Johnson	Hardee Senior High School	PLNT
S1309	Does the Concentration of Molasses Affect the Brix in Watermelons (<i>Citrullus lanatus</i>)? Year 4	

Second Place

Junior

Caroline C. Cornell	Hardee Junior High School	CHEM
J0509	Do Surfactants Increase Coverage of Spray Applications on Young Citrus Trees in Individual Protective Coverings (IPC)?	

Third Place

Junior

Lainey K. Johnson	Hardee Junior High School	PLNT
J1312	Does the pH Level in Soil Affect the Growth of <i>Imperata cylindrica</i> (Cogon grass)?	

Senior

Brady J. Williamson	Okeechobee High School	PLNT
S1311	Money In the Bag: Investigating the Effectiveness of Oxytetracycline in Individual Tree Protectors vs Open Air Protection Against Huanglongbing In Four-Year-Old Valencia Orange Trees-A Three-Year Study	

9 awards for Heartland Region

Hernando

Recognition Senior

Harsh Mehta S1216	F. W. Springstead High School Stastical Analysis to Determine the Correlation Between Exoplanet's Metallicities and Parameters	PHYS
Brennan Butler S1320	F.W. Springstead High School Evaluation of Soil pH Change Surrounding Halophytes in Pithlachascotee Estuarine Mangrove Forests	PLNT

2 awards for Hernando Region

Hillsborough

Fourth Place

Senior

Abriham Gogineni S0331	Strawberry Crest High School Multimodal Brain Pathology Assessment (MBPA): A Reinforcement Learning Approach	BMED
Pranav Verma S0331	Strawberry Crest High School Multimodal Brain Pathology Assessment (MBPA): A Reinforcement Learning Approach	BMED
Claire Sun S0420	Hillsborough High School Mitigation of Hypoxia-Induced Cell Death Through Inhibition of Protein Phosphatase 1 Regulatory Subunit 3G	CMBI
Shreyashi Bodaka S1017	Strawberry Crest High School CoMPHI: A Novel Composite Machine Learning Model Utilizing Multiple Feature Representation to Predict Hosts of Bacteriophages	MACO
Casey Ayres S1118	Newsome High School Using Locally Sourced Microbes to Develop a Novel Method of Sustainable Treatment	MICR
Michael Hemingway S1118	Newsome High School Using Locally Sourced Microbes to Develop a Novel Method of Sustainable Treatment	MICR
Savin Karki S1118	Newsome High School Using Locally Sourced Microbes to Develop a Novel Method of Sustainable Treatment	MICR
Summer Kaylyn Davies S1323	Strawberry Crest High School The Effects of <i>Glomus intraradices</i> on Root Growth and Nitrogen Consumption of Italian Genovese Basil in the Kratky System	PLNT

Honorable Mention

Senior

Swara Patel S0629	Carrollwood Day School Experimental Investigation of Phytodesalination and Growth Rate of Duckweed (<i>Lemna minor</i>) in Salt Water Hydroponics	EAEV
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Recognition

Junior

Nitin Kurup J0317	Williams Middle Magnet School Broken Hearted? Evaluating the Chance for Heart Disease	BMED
Jeronimo Marulanda Echever J0719	Kids Community College Southeast Middle School Aerodynamics of a Paper Airplane	ENMS

Senior

Youssef Alhamzawi S0815	American Youth Academy Automated Hydration: An Intelligent System for Optimizing Plant Growth through Soil Moisture	ENEV
Zainulabdeen Al-Qassab S0815	American Youth Academy Automated Hydration: An Intelligent System for Optimizing Plant Growth through Soil Moisture	ENEV
Ibrahim Mohammad S0815	American Youth Academy Automated Hydration: An Intelligent System for Optimizing Plant Growth through Soil Moisture	ENEV

Second Place

Junior

Ishanvi Sabniveesu	Sunlake Academy of Math and Science	PHYS
J1221	Detecting Impurities in Wine with Sound Pattern Analysis	

Senior

Darren Lau	Berkeley Preparatory School	IMRS
S0915	Enhancing Color Contrast and Perception via Novel Dynamic Augmented Reality and Deep Learning Systems to Develop an Adaptable Aid for Color Vision Deficiencies	

Tanishka Aglave	Strawberry Crest High School	PLNT
S1324	Advancing Sustainable Citrus Greening Disease Management: A Comprehensive Eco-friendly Approach for the Management of <i>Candidatus Liberibacter asiaticus</i> Using Trunk Injection of <i>Murraya koenigii</i> Derived Biological Extract and its Validation through Precision Agriculture Tools	

Third Place

Junior

Mahi Patel	Liberty Middle School	BMED
J0318	Spatial Analysis of T-Cell Infiltration in Orthotopic Bladder Tumors: Evaluating Hypoxia's Impact Through Digitalized Histology Images	

Sahil Patel	Martinez Middle School	EAEV
J0623	Flourishing Soil Microbiota - The Impact of Fertilizers	

Chinmay Gujar	Williams Middle Magnet School	IMRS
J0913	SignSwift: Using AI Visual Recognition For Optimal ASL Translation Efficiency	

Senior

Daniel Park	King High School	CMBI
S0421	Bioremediation Implications: A Novel Simulation of Perchlorate Docking with pcrABCD Proteins	

Rudra Patel	Middleton High School	IMRS
S0916	RYDRAfold: A Novel End-to-End Deep Learning Pipeline for Ab Initio Coarse-Grained RNA Tertiary Structure Prediction from Single Sequence Input	

Anika Prasad	Strawberry Crest High School	MACO
S1018	Automatic Diagnosis of Breast Cancer Using Deep Learning	

Deshna Pal	Strawberry Crest High School	PHYS
S1220	Unleashing Mysterious Waves: An Approach toward Gravitational Waves' Parameter Estimation Using Bayesian Inference and Deep Neural Networks	

24 awards for Hillsborough Region

Indian River

First Place

Junior

Ariana S. Bolton	Storm Grove Middle School	EAEV
J0604	Global Warning! The Effects of CO2 on Temperature and the Development of a Standardized Unit of Measurement to Compare Climate Change Solutions	

Fourth Place

Junior

Uma Q. Crisafulli	Gifford Middle School	CMBI
J0402	The Efficiency of Energy Density in Various Water Content Biofuels	
Harper G. Hall	Sebastian River Middle School	MICR
J1101	Un"lock"ing River Bacteria Secrets	
Gianna L. D'Elia	Storm Grove Middle School	MICR
J1102	Evaluating Millipede Extracts for Antimicrobial Properties	

Senior

Ella R. Kilman	Vero Beach High School	EAEV
S0605	How Do Microplastics Affect the Germination of <i>Rhizophora mangles</i> ?	
Jaya R. Vernese	Vero Beach High School	EAEV
S0605	How Do Microplastics Affect the Germination of <i>Rhizophora mangles</i> ?	

Honorable Mention

Junior

Alice R. Cheriton	St. Edward's Middle School	MICR
J1103	How Does the Temperature of the Indian River Lagoon Affect the Oxygen Production Rate of Blue-Green Algae?	
Jacquelyn D. Perrin	St. Edward's Middle School	MICR
J1103	How Does the Temperature of the Indian River Lagoon Affect the Oxygen Production Rate of Blue-Green Algae?	

Senior

Jay C. Sullivan	St. Edward's High School	BMED
S0305	Arthroscopic Grading System for Internal Impingement of the Shoulder	
Addison M. Logemann	St. Edward's High School	PLNT
S1304	Biodiversity Index of Species on Native Versus Non-native Milkweed Species	

10 awards for Indian River Region

Lake

Fourth Place

Junior

Ethan Sheckler	Umatilla Middle School	ENMS
J0723	Another Life Saved	

Honorable Mention

Senior

Sana Shukkoor Mannuthoduvil	Tavares High School	ANIM
S0122	Effects of Holistic Drugs as Adderall Replacements for ADHD Treatment	

Fatima Bourgi	Tavares High School	EAEV
S0631	What Is the Effect of Zinc Oxide in Sunscreen on Aquatic Life?	

Recognition

Junior

Khamil Alvarez Arroyo	Windy Hill Middle School	PHYS
J1225	No Pressure!	

Senior

Jasmin Gaines	East Ridge High School	IMRS
S0922	Manage Your Pet's Data From Any Device, Anywhere In The Cloud with Pet Tracker ID (Year 2)	

Third Place

Junior

Chelsea Lawson	Eustis Middle School	ENMS
J0724	Trash Collecting RC Boat	

Aarav Patel	Eustis Middle School	ENMS
J0724	Trash Collecting RC Boat	

7 awards for Lake Region

Manatee STEM Competition

Fourth Place

Junior

Kinley McCaw	Dr. Mona Jain Middle School	ANIM
J0105	How Is The Longevity of Drosophila melanogaster Impacted By Branched-Chain Amino Acid Consumption?	

Honorable Mention

Junior

Juanita Gomez	Dr. Mona Jain Middle School	ENEV
J0808	Biodegradable Hydrogels Can Help to Conserve Water in Farming	

Recognition

Junior

Sylvia Lebron	Dr. Mona Jain Middle School	BEHA
J0208	Does Note Taking Affect Topic Recollection	
Sebastian Lemke	Dr. Mona Jain Middle School	BEHA
J0208	Does Note Taking Affect Topic Recollection	

4 awards for Manatee STEM Competition Region

Martin

Fourth Place

Junior

Brian George Wang J0529	Hidden Oaks Middle School Where Are You, Vitamin C?	CHEM
Elliana McKenzie Lovatt J0824	Stuart Middle School St. Lucie Inlet Sand Deposition 2nd Year	ENEV
Samuel Calhoun J0825	Saint Joseph Catholic School The Power of Water	ENEV

Senior

Nina Goyal S0128	Martin County High School Control of Fall Armyworm, a Global Pest, Using RNA interference and Antisense Oligonucleotides	ANIM
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Honorable Mention

Senior

Aahan Asthana S1332	South Fork High School Uncovering: Seasonal Variation In Algal Growth	PLNT
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Recognition

Junior

Madeline Virginia Tuma J1333	Hidden Oaks Middle School Lettuce Talk about Greenhouses	PLNT
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Second Place

Senior

Nira Goyal S0221	Martin County High School A Review of the Use and Promotability of Mental Health Apps by Teenagers	BEHA
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Third Place

Junior

Kira Lawless J0118	Saint Joseph Catholic School Poly Eliminated Insecta	ANIM
Matthew Jarrell J0733	Stuart Middle School Aerodynamics of Airfoils in a Wind Tunnel	ENMS
Ethan Timmerman J0733	Stuart Middle School Aerodynamics of Airfoils in a Wind Tunnel	ENMS

Senior

Varun Singh S0930	South Fork High School A Novel Approach to Waste Recycling with Robotic Force Sensing and Image Processing Using Deep Convolutional Neural Network	IMRS
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11 awards for Martin Region

Monroe

Honorable Mention

Junior

J0315	Jacobo Gutierrez Sports, Calories, Science	Treasure Village Montessori School	BMED
J0315	Carlos Cosme Smith Sports, Calories, Science	Treasure Village Montessori School	BMED

Recognition

Junior

J0716	Parks Meadow Dunn Electromagnetic Mass Driver	Plantation Key School	ENMS
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Senior

S1321	Malia Brooke Alana The Effect of Wastewater Treatment Plants Biprodukt, Sludge, on Growth of <i>Rhizophora mangle</i> : A Scientific Exploration	Coral Shores High School	PLNT
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Second Place

Junior

J0620	Taylor Pennington Thomason The Environmental Cost of Convenience: How Polyethylene Plastics Contribute to Ocean Acidification and Affect Marine Life	Sugarloaf School	EAEV
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5 awards for Monroe Region

Northeast Florida

Division Grand Award Winner And First Place

Junior

Viktoriia Galushchak	St. Paul's Catholic School - Riverside	IMRS
J0911	Adoption of Computer Vision to Create Interactive Learning Experiences	

Senior

Anabella Platt	Episcopal School of Jacksonville	EAEV
S0625	3D-Printed Hemp-based Artificial Coral Reefs as Biodegradable Solution for Marine Restoration	

Fourth Place

Senior

Lilly J McCoy	Episcopal School of Jacksonville	ANIM
S0117	Locomotor Effects of <i>Rhodiola rosea</i> Supplement on Parkinson's <i>D. melanogaster</i>	
Alan M Alwakeel	Stanton College Preparatory School	BMED
S0324	Introducing AIDx, The Physician's AI Copilot	
Krish A Patel	The Bolles School	BMED
S0327	Evaluating Polycaprolactone to Deliver Nanovesicles from Biliary Stents as a Therapeutic against CCA	
Aoi Kanekiyo	Stanton College Preparatory School	CMBI
S0414	Characterization of Apolipoprotein E Particles from Immortalized Astrocyte Cultures	
Christina Dovellos	The Bolles School	CMBI
S0416	The Effects of Mutated MPRIP On Glioblastoma Cell Shape, Migration, Growth, and Overall Invasiveness	
Isabella D Villano	Episcopal School of Jacksonville	CHEM
S0510	Propolis as a Hydrogel Sunscreen	
Marco A Chua	Stanton College Preparatory School	EAEV
S0624	Wave Force Dissipation: Year Three	
Lillian Thoburn	Episcopal School of Jacksonville	ENEV
S0812	Hole Transport Materials in Perovskite Solar Cells	

Honorable Mention

Senior

Alexander Chindris	Episcopal School of Jacksonville	ENMS
S0714	Hollow Organ Simulator for In-Vitro Testing	
William R Rosenberg	Episcopal School of Jacksonville	MACO
S1013	Utilizing Stochastic Differential Equations to Model and Predict Temperature Fluctuations	
Alice I Largen	Episcopal School of Jacksonville	PLNT
S1319	Effects of Zinc Sulfate on Tomato and Pinto Plants Infected With Tobacco Mosaic Virus	

Recognition

Senior

Sophia Rubiano	Episcopal School of Jacksonville	ANIM
S0118	Paraben Impact on Fruit Flies' Reproductivity	
Joshua G Inocencio	Bishop Kenny High School	BEHA
S0213	The Effect of Second Guessing on Academic Performance	
Prithish R Shan	Stanton College Preparatory School	BMED
S0325	Characterizing Novel Splicing for Clinical Prediction in ALS and FTLN Using Machine Learning	

Simran Naval	The Bolles School	CMBI
S0417	Dual Drug Loaded Liposomal Nanoparticles To Target Metabolic Pathways Against NSCLC	
Everett M Dumolien	Episcopal School of Jacksonville	ENMS
S0715	An Investigation of Forward Swept Variable Sweep Wings for Use on Military Unmanned Aerial Vehicles	
Elizabeth N Butterfield	Episcopal School of Jacksonville	MACO
S1012	Using a Random Forest Regression Method to Predict the Movement of Mangrove Trees in Florida	

Second Place

Junior

Mithra Vasanthan	Julia Landon College Preparatory Middle School	ENEV
J0814	Oil Spills: Finding Efficient Methods for Cleanup and Their Effect on the Aquatic Ecosystem	
Christopher J Trinidad	Saint Joseph Catholic School	MICR
J1110	A Novel Approach to Combat Amebiasis: Testing Natural Solutions on <i>Paramecium multimicronucleatum</i>	

Senior

Emma C Lee	Stanton College Preparatory School	BEHA
S0214	Using Electroencephalogram and Neurofeedback Methodology as a Noninvasive Treatment for ADHD	
Sarah C Park	The Bolles School	CMBI
S0418	Establishing Disease Modeling of CADASIL using Human Induced Pluripotent Stem Cell-Derived Pericytes	

Third Place

Senior

Grace T Massey	Episcopal School of Jacksonville	ANIM
S0116	The Effects of Combining Different Vitamins with Antihistamine on Planaria Regeneration	
Dylan L Schwartz	The Bolles School	ENMS
S0716	3D Printed Micro-Optics: A Low-Cost Method to Produce High-Resolution Microscopy	

25 awards for Northeast Florida Region

Osceola

Fourth Place

Junior

Benicio Montebugnoli	Neptune Middle School	IMRS
J0904	Intelligent Moneymaking	

Second Place

Junior

Nitesh Rampersad	Neptune Middle School	MACO
J1002	Analyzing the Brocard-Ramanujan Problem	

2 awards for Osceola Region

Palm Beach

First Place

Junior

Anik Sahai	A.D. Henderson University School	BMED
J0301	Eye Don't Lie: A Visual Diagnosis for Diabetic Retinopathy	
Lenny Hanisko	Don Estridge High Tech Middle School	EAEV
J0602	The Carbon Blues: Sequestering CO ₂ with Submerged Aquatic Vegetation (SAV) through Blue Carbon Farming	
Adia Agarwal	Bak Middle School of the Arts	ENMS
J0701	Investigating the Efficiency of the Hydrogen Energy Cycle	

Fourth Place

Junior

Colin Michael Sullivan	Polo Park Middle School	CHEM
J0501	Explosive Sweets!	
Anya Rani Gupta	A.D. Henderson University School	MACO
J1001	Machine Learning (ML) Model For Predicting E-Waste Toxicity [ML-PET]: Studying the Effect of Metallic Toxicants on <i>Daphnia magna</i>	
Gabriel Hosein Mikati	American Heritage School of Boca/Delray	PHYS
J1201	Testing the Efficacy of Nickel-Zinc Batteries in Picosatellites	

Senior

Samer Elhoushy	American Heritage School of Boca/Delray	CMBI
S0401	The Effect of Adult Mesenchymal Stem Cells as a Novel Treatment of Rheumatoid Arthritis through Matrix Metalloproteinase Regulation by the TGF- β Signaling Pathway	
Maiah Sofia Ahrens	Palm Beach Central High School	EAEV
S0602	A Comparison of Catalyst and Bioremediation for Perchlorate Removal in Martian Regolith	
Samhita Konuru	American Heritage School of Boca/Delray	ENEV
S0802	A Novel Application of Microfluidics and Coral for the Development of a Carbon Capture and Storage Device	
Eoghan McIvor	Florida Atlantic University High School	IMRS
S0901	Optimizing Thruster Layout on an Underwater ROV	
Kayli Harris	American Heritage School of Boca/Delray	MICR
S1103	The Effect of Telomerase Inhibitor IX in Conjunction with <i>Bacillus subtilis</i> and/or <i>Escherichia coli</i> k-12 on Pancreatic Cancer Cells as a Cancer Therapy	
Nicholas Alexander Bondar	Alexander W. Dreyfoos School of the Arts	PHYS
S1204	Dipole Tension: The Impact of Source Positional Uncertainties	
Devesh Kumaresh	American Heritage School of Boca/Delray	PLNT
S1302	The Effect of <i>Cladophora glomerata</i> on the Aggregation of Microplastics in Various Aquatic Environments	
Joshua Reynolds	Florida Atlantic University High School	PLNT
S1303	Exploring the Effectiveness of <i>Chenopodium quinoa</i> on Minimizing the Effects of Salt Stresses on <i>Brassica oleracea</i>	

Honorable Mention

Senior

Sanvi Shankar	Florida Atlantic University High School	ANIM
S0104	Soaring Impact: Investigating the Influence of Air Pressure on <i>Drosophila melanogaster</i> Behavior and Reproduction Rate	
Dylan Nguyen	Alexander W. Dreyfoos School of the Arts	BMED
S0304	High-Resolution Supersampling of BASP-ORCA Contrast Agents in Magnetic Resonance Imaging	

Siddhartha Gadamsetti	Suncoast High School	ENMS
S0702	Optimizing Flash Graphene Manufacturing Technology for the Harvesting and Utilization of the Martian Atmosphere: An In-SITU Resource Utilization Study.	
Tanzeela Tasneem	Florida Atlantic University High School	PHYS
S1202	Solar Sailing: Effects of Photophoretic and Optical Propulsion on the Movement of Mylar Based Compounds	

Recognition

Junior

Paxton Makai Cava	A.D. Henderson University School	ENMS
J0702	Aerial Access: Building a Drone Prototype for Seed Dispersal over Inaccessible Terrain	
Benjamin Edward Slive	A.D. Henderson University School	ENMS
J0702	Aerial Access: Building a Drone Prototype for Seed Dispersal over Inaccessible Terrain	

Senior

Maya Behura	American Heritage School of Boca/Delray	BMED
S0301	The Effect of Casein Kinase 2 Inhibitors on Anti-apoptotic Gene Expression in Acute Myeloid Leukemia Cells	
Maya Mohanty	American Heritage School of Boca/Delray	BMED
S0302	Utilizing <i>Caulobacter crescentus</i> to Target NOXA, BIM, and PUMA to Induce Apoptosis via Caspase-3 in Nasal Squamous Cell Carcinoma	
Jennifer Grace Han	Palm Beach Central High School	MICR
S1102	The Effect of Phycocyanin on the Bio-fabrication of Antibacterial Performance of Silver Nanoparticles	
Ruby Lily Aubin	Florida Atlantic University High School	PHYS
S1201	RUBES: Resonators Used In Building Emergency Sensors - Factoring in Quality	

Second Place

Junior

Cameron Nikole Klopfer	A.D. Henderson University School	ANIM
J0101	Beneath the Surface: Exploring How Angles in Shark Vertebrae Contribute to Aquatic Locomotion	
Lilia Andrea Shalaurov	American Heritage School of Boca/Delray	BMED
J0302	The Effect of <i>Ocimum sanctum</i> Linn on Blood Pressure Levels with <i>Daphnia magna</i>	
Luke William Bourns	The Weiss School	EAEV
J0601	Is CFRP a Viable Material for Hurricane Shutters?	
Genevieve Johnson	Boca Raton Christian School	ENMS
J0703	Surface Area Optimization: A Study in Energy Savings	
Dylan Michael Kiesling	The Greene School	IMRS
J0901	VisionaryBot: Bridging Python and Object Detection Algorithm for Intelligent Robotics	
Gabriella Sophia Sagebien	The Weiss School	PLNT
J1301	Do Different Substrate Materials Affect the Growth of Plants in Microgravity Climates?	

Senior

Lahari Challa	American Heritage School of Boca/Delray	ANIM
S0101	Elucidating the Impact of <i>Lactobacillus casei</i> ATCC 393 on Amyloid Plaque Generation in Alzheimer's Model <i>Caenorhabditis elegans</i> GRU102	
Aayushi Ranjan	American Heritage School of Boca/Delray	ANIM
S0103	Analyzing the Effects of Curcumin and Turmeric on the Accumulation of Tau Amyloid Protein and its Further Implications into Alzheimer's Disease	
Yashwin Adusumilli	Florida Atlantic University High School	EAEV
S0601	Implementation of <i>Gracilaria</i> as a Biofilter for Nutrient Pollution	

Dishika Parikh	American Heritage School of Boca/Delray	ENMS
S0703	A Novel Application of a Lateral Flow Immunoassay to Develop a Non-Invasive and Rapid Whole Blood Diagnostic Method for Alzheimer's Disease	

Third Place

Junior

Ben Liu	A.D. Henderson University School	CMBI
J0401	Extension of Life: Investigating the Effects of Astragalus on the Lifespan of <i>Drosophila melanogaster</i>	

Senior

Kasey Tiffany Moore	American Heritage School of Boca/Delray	ANIM
S0102	The Effect of <i>Uncaria tomentosa</i> (Cat's Claw) in Locomotion of <i>Caenorhabditis elegans</i> Transgenic Strain NL5901 and its Potential Association with Alpha Synuclein Aggregation in an Animal Model of Parkinson's Disease	
Aishwarya Deshpande	American Heritage School of Boca/Delray	CHEM
S0501	Developing a Polyethylene Glycol Hydrogel Based Controlled Delivery System Using the Alkyl Radical Initiator AIPH as an Antitumor Therapy	
Nakul Balaji	Florida Atlantic University High School	EAEV
S0603	Exploring the Effects of Aquatic Phytoremediation on Excessive Nutrients Using <i>Lemna minor</i>	
Bhav Jain	American Heritage School of Boca/Delray	ENEV
S0801	Synthesizing and Testing a Cost and Energy-efficient Bioplastic out of <i>Sargassum bacciferum</i> seaweed algae, Glycerin, and Ethyl Cyanoacrylate (Superglue).	
Chloe Barreto-Massad	American Heritage School of Boca/Delray	MICR
S1101	Isolating and Annotating Novel Bacteriophages that Infect <i>Gordonia rubripertincta</i> : A Comparison between Evergreen22 (Frib8) and KayGee	
Catherine Xinyi Zhao	American Heritage School of Boca/Delray	PHYS
S1203	Chlorine-emulsified PDMS for Water Droplet Based Energy Harvesting	

41 awards for Palm Beach Region

Pasco

First Place

Junior

Aiden Kirkley J0819	Angeline Academy of Innovation Locating a Fire: Remote Sensing Towers Year 2	ENEV
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Fourth Place

Junior

Arshiya Ghosh J0319	Starkey Ranch K-8 An Ayurvedic Approach to Aortic Stenosis	BMED
Johnny Powers J0720	Starkey Ranch K-8 Pool System Hydroelectric Production	ENMS
Mary Farag J1323	Seven Springs Middle School Increasing the Effects of Carbon Capture in <i>Dracaena sandariana</i> by Increasing Efficiency of Ribulose-1	PLNT

Senior

Gwendolyn Pender S0121	Wiregrass Ranch High School Developing a Novel Incubation System to Protect the Giant Swallowtail Life Cycle from Florida Carpenter Ant Predation	ANIM
Tristan Pasquale S0630	Wiregrass Ranch High School ForestCast: Developing a Novel Convolutional Neural Networks to Enhance Prevention of Fragmentation in the United States	EAEV
Andrew Lambert S0721	Wiregrass Ranch High School Developing a Modified Quasi-Z Source Inverter with a Widened Triple Port to Decrease Voltage Loss Between Electric Vehicle Lithium-Ion Batteries and Electric Stability Control Systems: A Year Two Approach	ENMS
Ian Kim S1221	Wiregrass Ranch High School A Re-Engineering of the PID Controller Using a Novel 10-MF Fuzzy Logic Module for Regulating the Electromagnetic Force in Magnetic Levitation (Maglev) Vehicles	PHYS

Honorable Mention

Senior

Aleah Diaz S0422	Wiregrass Ranch High School Using Iron-Oxide Nanoparticles as a Novel Diagnosis Method for Endometriosis by Detecting Cytokine CA-125	CMBI
Sydney Ficks S0513	Wiregrass Ranch High School Optimization of the Ethylene Vinyl-Acetate (EVA) Dissolution Process for c-Si Model Solar Panels with Monocrystalline Cells	CHEM

Recognition

Junior

Saksham Batra J0624	Dr. John Long Middle School Can Liquid Magnets Save the Ocean?	EAEV
Pranshu Shah J1010	Seven Springs Middle School Decoding Air Quality: Intense Data Analysis To Uncover Influential Factors Affecting Breathable Air	MACO
Landon Edwards J1222	Dayspring Academy Middle School Amazing Fuel Cells	PHYS
Nolan Zapata J1324	Seven Springs Middle School Plants in Space: At Home	PLNT

Senior

Calina Levy	Wiregrass Ranch High School	ENEV
S0816	Innovative Nonmicrobial Reduction of Nitrate into O2 and N2 for Commercial Availability	
Rohil Agarwal	Land O'Lakes Senior High School	IMRS
S0918	Assessing Academic Performance: Personalized Federated Learning for Identifying Overperforming and Underperforming Schools and Individual-Level Implications	
Madeleine Grussing	Wiregrass Ranch High School	PLNT
S1325	Optimizing a Novel Chitinase Induction Method as a Form of Natural Fungicide	

Third Place

Junior

Grady Wildt	Seven Springs Middle School	CHEM
J0520	Water 2 Fuel	
Randall Quinones	Centennial Middle School	ENMS
J0721	Custom Phone App	

Senior

Meghna Manjith	Wiregrass Ranch High School	MACO
S1019	Investigating Biofilm-Related Biomarkers to Predict Therapy Response in Colorectal Cancer Tumors: Year 2	

20 awards for Pasco Region

Pinellas

Honorable Mention

Junior

Sierra Beal	Carwise Middle School	ANIM
J0108	Effect of Different Species of Milkweed on Monarch Transformation	
Christos Glynatsis	Carwise Middle School	BEHA
J0211	Music for Thought: The Effects of Music Genres on the Brain	
Rhett Skelton	Carwise Middle School	BEHA
J0211	Music for Thought: The Effects of Music Genres on the Brain	

Recognition

Junior

Ella Belvedere Winogradsky	Sanderlin K-8 IB World School	CHEM
J0513	Spherification in Medicine	

Senior

Madeleine Lile-Delfino	Countryside High School	CMBI
S0410	Bioluminescence In Plants	
Carson Granese	Shorecrest Preparatory School	IMRS
S0908	Overcoming Microgravity's Effects on the Lymphatic System During Long Term Space Travel	

Second Place

Senior

Erin Glenn	Indian Rocks Christian School	BMED
S0313	The Effectiveness of an Alternative Shunt Design: Year Two	
Ella Baum	Saint Petersburg Collegiate High School	PLNT
S1314	Biological Control of Pests Using Entomopathogenic Fungi	

Third Place

Senior

Ann Parry	Countryside High School	PLNT
S1315	Hydroponic vs. Soil: The Optimal Growth Environment	

9 awards for Pinellas Region

Polk

Honorable Mention

Junior

Mattison Phillips J0512	Ridgeview Global Studies Academy How Dark Beverages Affect the Color of Your Teeth	CHEM
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Senior

Alexandra Beatriz Eary S1210	Haines City High School IB East What Is the Ringing?: Does the Density of Water in a Glass and the Glass Shape Affect Its Resonant Frequency	PHYS
Isabella Wenxiu Wang S1313	Haines City High School IB East Should Trees Melow-Tone-In for Citrus Greening?	PLNT

Third Place

Junior

Megan Riley Heter J1213	Dundee Ridge Academy Run, Hide, Fight	PHYS
Savannah Kay Watts J1213	Dundee Ridge Academy Run, Hide, Fight	PHYS

Senior

Syed Imtiaz Rob S0409	Haines City High School IB East Investigating Neurotransmitter Precursor Amino Acid Stability at Different Human Body Temperatures	CMBI
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6 awards for Polk Region

Sarasota

Fourth Place

Junior

Zachary Harshman	Sarasota School of Arts and Sciences	BMED
J0327	The Effect of Temperature on a Hydrogel on Degradation Rate for use in a Drug Delivery System?	

Senior

Wyatt Wrigley	Sarasota High School	CHEM
S0521	Screening of Surface Soils for R.C.R.A. 8 Heavy Metal Concentrations in Varying Socioeconomic Status Census Tract Block Groups within the City of Sarasota, Florida	
Selena Shen	Pine View High School	IMRS
S0927	Detection of Diabetic Retinopathy with a Deep Learning Algorithm	
Curt Wheeler	Sarasota High School	IMRS
S0928	Collaborative Neural Networks for Enhanced Anomaly Detection in Surveillance	

Honorable Mention

Senior

Sarah Gutierrez	Sarasota High School	MICR
S1123	The Comparative Effect of Differing Minerals Against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i>	

Recognition

Senior

Jack Vanden Heuvel	Sarasota High School	CHEM
S0522	The Effects of Electroplating a Nickel Copper Layer onto a Photopolymer Resin 3D Print	

Third Place

Senior

Annika Schnetker	Sarasota High School	EAEV
S0639	The Ideal Light Cycle for <i>Dunaliella salina</i>	
Katherine McCracken	Sarasota High School	EAEV
S0640	The Effect of ABA Exposure to <i>Karenia Brevis</i> on Brevetoxin Production	
Anika Sackerlotzky	Sarasota High School	EAEV
S0640	The Effect of ABA Exposure to <i>Karenia Brevis</i> on Brevetoxin Production	
Aadi Bhensdadia	Pine View High School	ENMS
S0731	Utilizing 3D Additive Biomanufacturing to Develop a Biocompatible, Customizable, and Durable Mechanical Aortic Valve - Year 2	

10 awards for Sarasota Region

Seminole

Division Grand Award Winner And First Place

Junior

Aiden Xu J0511	Sanford Middle School AI-assisted Mosquito Repellent Solution Invention and Experiment Validation	CHEM
Steven Goodman J1334	Milwee Middle School The Impacts of Gravitropism & Phototropism on Plant Growth	PLNT

Senior

Jai Amit Gupta S1127	Seminole High School Combating Superbugs: Natural Compounds as Downregulators of Biofilm Formation by ESKAPE Pathogens - An In Silico Study	MICR
Avi Amit Gupta S1127	Seminole High School Combating Superbugs: Natural Compounds as Downregulators of Biofilm Formation by ESKAPE Pathogens - An In Silico Study	MICR
Moitri Santra S1312	Oviedo High School Combatting Huanglongbing Using Innovative Detection and Treatment Tools: Year 2	PLNT

Fourth Place

Junior

Caesin Ray McShane Davis J0713	Teague Middle School Can a supersonic compression electric jet engine be the future of propulsion systems?	ENMS
Snehansh Nanda J1211	Lawton Chiles Middle School How Does the Weight Distribution on a Train Affect its Stability?	PHYS
Ruishi Wang J1211	Lawton Chiles Middle School How Does the Weight Distribution on a Train Affect its Stability?	PHYS

Honorable Mention

Junior

Nevaeh Hernandez J0810	Sanford Middle School Sea Erosion Barrier	ENEV
Ankan Das J0908	Sanford Middle School An Intelligent Walking Robot with Automated Actuation and Sensing for Surveillance and Space Exploration	IMRS

Senior

Swathi Subramanian S0311	Winter Springs High School Green Additive Manufacturing of Muscle Analogs (GAMMA)	BMED
Krish Manoj Sejpal S0408	Seminole High School Rosmarinic Acid Attenuates Malignant Phenotypes in vivo via DNMT1 Gene Pathway: Implications for Cancer Therapeutics	CMBI
Luis Angel Villalobos S0408	Seminole High School Rosmarinic Acid Attenuates Malignant Phenotypes in vivo via DNMT1 Gene Pathway: Implications for Cancer Therapeutics	CMBI
Arvid Vaidyanathan S1209	Winter Springs High School Dust-Repellent and Self-Cleaning Coatings for Solar Panels on Earth, the Moon, and Mars (Year Two)	PHYS

Recognition

Junior

Johnie Hanley J0107	Jackson Heights Middle School Red Tailed Sharks Response To Shark Deterrents	ANIM
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Senior

Victoria Marie Krupica	Oviedo High School	ANIM
S0110	From Canopies to Crypts: an Ecological Survey of Zombie Ant Cadavers in the Little Big Econ State Forest	

Second Place

Junior

Rowan Fedorka	Jackson Heights Middle School	BEHA
J0209	The Impact of Artificial Intelligence on Middle School Education	
Hyewon Kim	Lawton Chiles Middle School	EAEV
J0614	Soaking In The Hardships of Farming and Extreme Climate!	
Emma Norena	Jackson Heights Middle School	PLNT
J1314	How Different Colors of LED Lights Affect the Growth of Viola tricolor var. hortensis	

Senior

Kevin Perez	Crooms Academy of Information Technology	EAEV
S0617	Optimized Predictive Model for Sea Surface Anomalies; Predicting El Niño Occurrences Using Neural Networks	

Third Place

Junior

Prerona Sarkar	Jackson Heights Middle School	BEHA
J0210	Does Spatial Visualization Help Improve Mathematical Ability? - an AI Approach	
Aarush Balakrishnan	Jackson Heights Middle School	EAEV
J0613	Effectivity of Carbon Filters on Capturing Gaseous Fumes	
Abhiti Maitra	Jackson Heights Middle School	PHYS
J1210	A Novel Approach to Calculate Interstellar Distances with Precision by Applying Geometric Properties of a Square	

Senior

Adhip Shankar Maitra	Oviedo High School	CMBI
S0407	Predicting the Severity of Human Coronavirus Strains through Computer Based Analysis of the Evolution of the Spike Protein	
Anya Boga	Oviedo High School	CHEM
S0506	In vitro Hexokinase and α -amylase Inhibitory Activity of Gymnema sylvestre Extract to Identify Potential Anti-Diabetic Properties	
Rhea Bagchee	Seminole High School	EAEV
S0616	Evaluating Microplastic Pollution in the St. John's River: A Multi-County Analysis and Exploring Novel Ferrofluid Remediation Approaches	
Gargi Sudhanva Paranjape	Oviedo High School	ENEV
S0808	Coagulation & Flocculation Coupled with Ion Exchange (IX) as an Alternative to Biologically Active Filtration (BAF) & Ozone for Direct Potable Reuse	
Meghna Vikram	Hagerty High School	IMRS
S0907	Who Makes the Rules?: Using Generative Artificial Intelligence to Write Novel Rules to Effectively Find Previously Unnoticed Security Vulnerabilities in Open Source Code	

28 awards for Seminole Region

South Florida

First Place

Junior

Sarah Schurer J0407	George Washington Carver Middle School Predicting POI and E3 Ligase Complexes Using Alpha Fold Multimer	CMBI
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Fourth Place

Senior

Janie Cai S0314	Miami Palmetto Senior High School Machine Learning for Predicting Cancer Patients' Response to Immune Therapy Using Gene Expression Value	BMED
Neelesh Pandey S0315	Gulliver Preparatory School The Effect of Somatic Mutations in Glioblastoma Multiforme on Patient Survival	BMED
Trisha Chapagain S0316	Archimedean Upper Conservatory Characterization of Exosomes Involved in Vascular Calcification Using Multifunctional Nanopipettes	BMED
Isabella Gonzalez S1316	iMater Preparatory Academy High School The Use of an Autonomous Sensing and Watering System to Optimize Water Use and Biomass Production in Misome (<i>Brassica campestris var.narinosa</i>)	PLNT
Leonardo Ravelo S1316	iMater Preparatory Academy High School The Use of an Autonomous Sensing and Watering System to Optimize Water Use and Biomass Production in Misome (<i>Brassica campestris var.narinosa</i>)	PLNT

Honorable Mention

Junior

Noah Gutman J1008	iPrep Academy North The Impact of Font Characteristics for Individuals with Dyslexia and ADHD: A Cluster Analysis Algorithm	MACO
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Senior

Sunny You S0619	Miami Palmetto Senior High School An Artificial Intelligence Tool for Intensity Estimation of Global Tropical Cyclones	EAEV
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Recognition

Junior

Ishaan Mauskar J0406	George Washington Carver Middle School No Stain, No Gain	CMBI
Thai Durham J0811	Maritime and Science Technology Academy Living Bricks	ENEV

Senior

Jade Lubin S0317	American Senior High School Impact of RagA and RagB on Osteoclastogenesis	BMED
Isabella Medina S0620	TERRA Environmental Research Institute Assessing the Potential of Mosquitofish and Aquaponic Farming	EAEV

Second Place

Junior

Nikol Tsiros J0212	Archimedean Middle Conservatory Picking into the Brain of Future Decision Makers/How New Technologies Calibrate the Brain and Determine our Attitudes.	BEHA
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Third Place

Senior

Ethan Thomas

Ransom Everglades School

IMRS

S0909

Syncardia: AI at the Heart of Early Cardiovascular Disease Detection

14 awards for South Florida Region

St. Johns

Fourth Place

Junior

Kate Hurford J0616	Landrum Middle School Analyzing the Effects of Aeration on Retention Pond Water Quality	EAEV
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Senior

Nat Bagnall S0809	Ponte Vedra High School Green Synthesis of a ZnO@ZIF-90 Nanozyme for CO2 Capture	ENEV
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Recognition

Junior

Nikit Chitteti J0910	Fruit Cove Middle School Scanscription-An App that Scans Prescriptions to Create Reminders	IMRS
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Senior

Mira Bhutani S0318	Ponte Vedra High School Sex Differences in Hypermobility Ehlers-Danlos Syndrome	BMED
Shubhangi Maitra S0411	Allen D. Nease High School Decreased Levels of the Metabolite Nicotinamide Adenine Nucleotide (NAD) as a Driver of the Aging Process	CMBI
Benjamin Burk S0621	Ponte Vedra High School Testing the Effects of Ethephon on Bacteria in Fresh Surface Water	EAEV
Joshua Kim S0621	Ponte Vedra High School Testing the Effects of Ethephon on Bacteria in Fresh Surface Water	EAEV
Emaad Rahmathulla S0621	Ponte Vedra High School Testing the Effects of Ethephon on Bacteria in Fresh Surface Water	EAEV
Joseph Hadad S0712	Creekside High School Cyclic Ionic Propulsion Design for Improved Thrust to Area Capacity	ENMS
Manish Kota S0712	Creekside High School Cyclic Ionic Propulsion Design for Improved Thrust to Area Capacity	ENMS

Third Place

Senior

Carter Magnano S0319	Ponte Vedra High School The Role of Neuropilin-1 in Regulating Inflammation Following Ischemic Heart Injury	BMED
Aneesh Sattiraju S0711	Creekside High School Design of an Axial Flux-Modulated Magnetic Coupler for Efficient Energy Conversion	ENMS

12 awards for St. Johns Region

St. Lucie

Honorable Mention

Junior

Georgianna Hlewicki	Westgate K-8 School	ENMS
J0730	Arm You Ready?	

Senior

Kayla Washington	Treasure Coast High School	BMED
S0341	Phage vs Affliction	

Recognition

Junior

Phoenix Krier	Samuel S. Gaines Academy	CHEM
J0525	Which Filtration Works Best on City Water?	
Lochlan Treadwell	St. Lucie West K-8 School	MACO
J1013	AI Wars	

4 awards for St. Lucie Region

Suwannee Valley

Fourth Place

Junior

Joseph Deming	Fort White High School	PLNT
J1328	Plant Growth and Light Wavelength	

Luke McKinney	Fort White High School	PLNT
J1328	Plant Growth and Light Wavelength	

Senior

Gloria Gilliam	Branford High School	ANIM
S0124	How Do Moon Phases Affect Calving Rates in Dairy Cattle? Part 2	

Honorable Mention

Junior

Caleb Davis	Lake Butler Middle School	PHYS
J1224	A Little Bit Rusty	

Recognition

Junior

Jack Scopellite	Fort White High School	EAEV
J0628	In Search of Radon Gas	

Gavin Starling	Fort White High School	EAEV
J0628	In Search of Radon Gas	

6 awards for Suwannee Valley Region

Thomas Alva Edison

Fourth Place

Junior

Penelope Serantes J0329	Mariner Middle School The Best Pad. Period...	BMED
Layla Turner J0527	Charlotte Preparatory School Is Your Water Contaminated? City vs Well	CHEM
Dhira Sharma J0732	Canterbury School Aerodynamic Explorations: Unveiling the Efficiency of Varied Airfoil Designs in Wind Tunnel	ENMS
Mallory Mizell J1331	Charlotte Preparatory School Effect of Salt in Water on Plant Health	PLNT

Senior

Mehereen Chowdhury S0220	Canterbury School A Novel Approach to the Effect of Bisphenol A on the Neurodevelopment of <i>Drosophila melanogaster</i> Larvae	BEHA
Megan D'Souza S0430	Community School of Naples Revolutionizing Diabetes Care: Optimizing Hydrogel Beads for Pancreatic Islet Viability	CMBI
Bianca Trope S0732	Community School of Naples Developing an Oil Spill Remediation System that Utilizes Ferrofluids' Polar-Incongruencies to Bind to Petroleum and Integrate it into a System Primed for Magnetic Removal versus Bagasse, Coconut Coir, and Pine Shaving Remediation Systems for Sustaina	ENMS
Dhruva Sharma S0929	Fort Myers High School Intelligent Urban Transportation Revolution: A Comprehensive Approach Integrating Vision-based Traffic Analysis, SPSA-NN Traffic Signal Optimization, Distracted Driver Detection, and Enhanced Road Signaling	IMRS

Honorable Mention

Junior

Elena Centeno J0328	Charlotte Preparatory School How Effective Is Your Sunscreen?	BMED
Sonali Anderson J1332	Evangelical Christian School Liquid Gold: Picking the Perfect Plant Hydration	PLNT

Senior

Deep Patel S0348	Fort Myers High School Leveraging Hyper-parameter Optimization in Multimodal Convolutional Neural Networks to Detect Skin Lesion Subtypes	BMED
Tyler Tocket S0348	Fort Myers High School Leveraging Hyper-parameter Optimization in Multimodal Convolutional Neural Networks to Detect Skin Lesion Subtypes	BMED
Ivan Yu S0348	Fort Myers High School Leveraging Hyper-parameter Optimization in Multimodal Convolutional Neural Networks to Detect Skin Lesion Subtypes	BMED
Josephine Byers S1124	Community School of Naples Developing Homeopathic Solutions to Minimize Antibiotic Resistance to Tetracycline Through the tetB and tetM Genes Along With 3 Other Commonly Used Antibiotics (2nd Year Study)	MICR

Recognition

Junior

Maria Travisano J0411	Power in Planaria	Bonita Springs Middle School Center for the Arts	CMBI
Suditi Chandra J1114	The Delicious Work of Bacteria	Canterbury School	MICR

Second Place

Junior

Alyssa Liu J0526	Green Hydrogen	Paul Laurence Dunbar Middle School	CHEM
Andrew Sareh J0526	Green Hydrogen	Paul Laurence Dunbar Middle School	CHEM

Senior

Amaya Etcheverry S0825	Utilizing a Consortium of <i>Haematococcus</i> , <i>Spirulina</i> , and <i>Chlorellavulgaris</i> to Create an Open System Photobioreactor that Generates Electricity, Reduces Galvanic Corrosion of the Electrodes, And Maintains the Ability of the System to Purify Air (A 4th Year Study)	Community School of Naples	ENEV
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Third Place

Senior

Kurukulasuriya Fernando S1331	Comprehensive In Vitro and In Vivo Evaluation of Antidiabetic, Antifungal, Antioxidant, Larvicidal, Bioelectricity and Anticancer Activity of Six Native Plant Species: Innovations for Novel Drug Discovery	Dunbar High School	PLNT
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20 awards for Thomas Alva Edison Region

Tomoka

First Place

Junior

Lilly A Downs J0707	Galaxy Middle School	ENMS
What Is the Optimal Number of Magnets for an Ocean Wave Electricity Generator to Produce the Peak Voltage?		

Fourth Place

Junior

Kaysha K Patel J0605	David C. Hinson Middle School	EAEV
How Much Focculant is Needed to Reduce the Total Suspended Solids in Murky Water from the Tomoka River?		

Senior

Salsabeel Eldeeb S0606	Spruce Creek High School	EAEV
Enhancing Carbon Sequestration of Sedium Acre by Integrating Silica-Composited Biochar: A Sustainable Approach to Mitigate Climate Change		
Ahmed Eldeeb S0606	Spruce Creek High School	EAEV
Enhancing Carbon Sequestration of Sedium Acre by Integrating Silica-Composited Biochar: A Sustainable Approach to Mitigate Climate Change		

Honorable Mention

Senior

Jordan Platt S0803	Spruce Creek High School	ENEV
An Investigation of an Alternative Method of Mangrove Propagation to Facilitate Phytoremediation and Maximize Carbon Sequestration		

5 awards for Tomoka Region

West Panhandle

Fourth Place

Junior

Henry Merritt	Beulah Middle School	ANIM
J0103	Superworm Supereater	
Olivia Miller	Holley Navarre Middle School	BEHA
J0204	Illusions through the Ages!	
Richard Wilderman	St. Paul's Catholic School	CHEM
J0507	Acidic and Alkaline: The Effect of pH Levels on Fruit	

Honorable Mention

Junior

Elisabeth Collins	Ransom Middle School	EAEV
J0609	Of Monarchs and Milkweed	

4 awards for West Panhandle Region