

ANIMAL BIOLOGY (JR) J01

Mahnur Bharucha	Institute of Knowledge	Third Place J0106 Split group: –	<i>CAT VS CAT: Prevalence Of Intestinal Parasites In Shelter And Domestic Cats</i>
Benjamin Liu	Dana Middle School	Second Place J0115 Split group: –	<i>Novel Spiral Microfluidic Devices Using the Elasto-Inertial Effect for Urinalysis Year 2</i>
Liam Sherman	Milken Community Schools	First Place J0120 Split group: –	<i>Analyzing the behaviors of <i>Petrogale xanthopus</i> in the Los Angeles Zoo</i>

ANIMAL BIOLOGY (SR) S01

Jessica Hui	Viewpoint School	Third Place S0103 Split group: –	<i>Modulation of Mitochondrial DNA Mutation Frequency & Accumulation by Rapamycin and Caloric Restriction in Aging Mouse Muscle</i>
Dustin Hartuv	Palos Verdes High School	Second Place S0102 Split group: –	<i>Correlation between Habitat Quality and Abundance/Diversity of California Birds</i>
Vick Liu	Flintridge Preparatory School (High School)	First Place S0105 Split group: –	<i>An Acoustic Enhanced Blood Smear Device</i>

ANIMAL PHYSIOLOGY (JR) J02

Joshua Lewis	Pressman Academy	Second Place J0209 Split group: –	<i>Daphnia: Under the Influence</i>
Zoraiz Hashmi	Al-Huda School	First Place J0207 Split group: –	<i>The Battle of Wits</i>

ANIMAL PHYSIOLOGY (SR) S02

Cheyenne Newallis	San Pedro High School - Olguin Campus	Third Place S0203 Split group: –	<i>An Examination of the Factors that Contribute to Egg-laying of Pacific Swell Shark (Cephaloscyllium ventriosum)</i>
Caleb Smith	Palos Verdes Peninsula High School	Second Place S0204 Split group: –	<i>Utilizing a Fluorescent Hsp22 Pathway to Discover Lifespan- Increasing Genes in the Drosophila Melanogaster</i>
Mirna El-khalily	Francisco Bravo Medical Magnet High School	First Place S0201 Split group: –	<i>Abscisic Acid Effects on Cell Proliferation</i>

BEHAVIORAL SCIENCES - NON-HUMAN (JR) J03

Timothy Lindsey	Village Christian Middle School	Second Place J0308 Split group: –	<i>How do Different Colors Affect a Turtle's Movement Throughout a Maze?</i>
Benjamin Hewitt	Portola Middle School & HGM	First Place J0306 Split group: –	<i>Retention of Larval Stage Conditioning in Post-Metamorphic Pieris Rapae Butterflies; Can Butterflies Remember Being a Caterpillar?</i>

BEHAVIORAL/SOCIAL SCIENCES - HUMAN (JR) J04

Joshua Richland	Pressman Academy	Third Place J0431 Split group: –	<i>P vs. No</i>
Justine Encontro	John Muir Middle School	Second Place J0411 Split group: –	<i>Money and the Mind</i>
Manaal Sayed	Institute of Knowledge	First Place J0433 Split group: –	<i>Eating Disorders Comorbid with Depression</i>

BEHAVIORAL/SOCIAL SCIENCES (SR) S03

Ruwanthi Ekanayake	Palos Verdes Peninsula High School	Third Place S0305 Split group: –	<i>Effects of Avatar-Based Virtual Reality on Veracity Perception and Kinetosis</i>
Sam LeFevre	Crescenta Valley High School	Second Place S0311 Split group: –	<i>The Effects of Video Games on Cognitive Function</i>
Alexandra Garcia	Francisco Bravo Medical Magnet High School	First Place S0307 Split group: –	<i>The Neural Limitations of Small Invertebrates: Effects of Electrical Shocks on the Behavior of Brine Shrimp</i>

BIOCHEMISTRY & MOLECULAR BIOLOGY (JR) J05

Jad Soucar	New Horizon School Pasadena	Second Place J0521 Split group: –	<i>It's More than a Weed, it's Sunscreen</i>
Elisha Johnston	Youth Science Center	First Place J0511 Split group: –	<i>Organic and Conventional Chicken under the Microscope: A Pilot Study Comparing Protein Quality</i>

BIOCHEMISTRY & MOLECULAR BIOLOGY (SR) S04

Braeden Benedict	Palos Verdes Peninsula High School	Third Place S0402 Split group: –	<i>Pathology and Chemistry of the Brain in Sanfilippo Syndrome Type B</i>
Emily Kim	Palos Verdes Peninsula High School	Second Place S0407 Split group: –	<i>Electrophysiology-based Screen to Discover Genes Involved in Synaptic Homeostasis</i>
Cody Lim	Francisco Bravo Medical Magnet High School	First Place S0408 Split group: –	<i>Optimizing Viral Vectors for Site-Specific Gene Therapy in Hematopoietic Stem Cells</i>

CHEMISTRY - APPLIED (JR) J06

Liam FitzGerald	St. John Fisher School	Third Place J0602 Split group: –	<i>More Water, Please</i>
Chloë Blue Steckart	St. Timothy School	Second Place J0611 Split group: –	<i>The Degradation of Ascorbic Acid: Effects of Electromagnetic Radiation, Convection Currents, and Time (Oh Say Can You See... Vitamin C!)</i>
Faatima Zahra Motala	Institute of Knowledge	First Place J0619 Split group: –	<i>Got Biodiesel?</i>

CHEMISTRY - GENERAL (JR) J07

Larisa Assadourian	St. Gregory A&M Hovsepien School	Third Place J0706 Split group: A	<i>The Effect of Moisturizers on Skin Moisture Retention</i>
Mia Pardo	Ribét Academy Middle School	Third Place J0740 Split group: B	<i>Examination of Tartrate</i>
Sophie Carter Cameron Gomez	Sierra Madre Middle School	Second Place J0714 Split group: B	<i>Kinetics of the Inversion of Sucrose</i>
Erik Mercado	Our Lady of Refuge Catholic School	Second Place J0735 Split group: A	<i>How Does Time Affect the Amount of Vitamin C in Oranges?</i>
Sarah Danon Nicole Dersahakian	Porter Ranch Community School	First Place J0715 Split group: B	<i>Which Blond is Best?</i>
Jessie Ellico Franks	Sierra Madre Middle School	First Place J0717 Split group: A	<i>Anthocyanins as Color Changing Acid Indicators</i>

CHEMISTRY (SR) S05

Diana Palma	Saint Anthony High School	Second Place S0518 Split group: –	<i>Polystyrene and its Effectiveness of Removing Calcium and Magnesium from Water</i>
Taniel Keosseian	Rose and Alex Pilibos Armenian School- High School	First Place S0512 Split group: –	<i>Make Cellphone Spectrophotometer to See Light</i>

EARTH/SPACE SCIENCES (JR) J08

Matas Kulikauskas	South Pasadena Middle School	Second Place J0814 Split group: –	<i>A Puzzling Parallax Perspective</i>
George Khouri	Sierra Canyon School	First Place J0813 Split group: –	<i>Put Your Soil To The Test!</i>

EARTH/SPACE SCIENCES (SR) S06

Zoe Zawol	Pasadena High School	Third Place S0609 Split group: –	<i>The Effect of Strong Magnetic Fields Caused by Broadcast Antennas on the Local Cosmic Ray Flux</i>
Kaitlyn Arst	Daniel Pearl Magnet High School	Second Place S0602 Split group: –	<i>Use of Starch and Biopolymers Aqueous Solutions to Reduce Soil Erosion</i>
Ethan Uetrecht	Palos Verdes Peninsula High School	First Place S0606 Split group: –	<i>Assessing the Practicality of Asteroid Deflection Strategies Using Simulation</i>

ECOLOGY (JR) J09

Samantha Morris Christina Lee Angela Lee	Mirman School	Third Place J0913 Split group: –	<i>H2O: Hope to Others</i>
Logan Dalton	Portola Middle School & HGM	Second Place J0906 Split group: –	<i>Examining Potential Well Water Contamination</i>
Caroline Choi	South Pasadena Middle School	First Place J0905 Split group: –	<i>Drugs in Our Waters Make Daphnia's Hearts Flutter</i>

ECOLOGY (SR) S07

Lilit Danelyan Siranush Martirosyan Bianca Mirza	Herbert Hoover High School	Second Place S0701 Split group: –	<i>Effect of Plastic on Laysan Albatross</i>
Michael McFarland	Palos Verdes Peninsula High School	First Place S0704 Split group: –	<i>The Potential Impact of Hyperion Treatment Plant's Chlorinated Effluent and West Basin Brine on Marine Organisms</i>

ENGINEERING APPLICATIONS (JR) J10

Jonathan Abrams	Milken Community Schools	Second Place J1002 Split group: B	<i>The Claw Cane; A Cane with a Claw Mechanism for Picking up Dropped Items</i>
Alessandro Villain Jae Won Kwak	Ridgecrest Intermediate School	Second Place J1048 Split group: A	<i>Comparing the Versatility of an Aftermarket Controller from its Standard Counterpart</i>
Heaven Williams	Crawford Academy	Second Place J1049 Split group: A	<i>Solar Water Collector: Effect of Collector Diameter, Tilt, and Cover Material on Efficiency</i>
Grady Morrissey	Flintridge Preparatory School (Middle School)	First Place J1034 Split group: A	<i>How the Shape of a Telescope's Mirror Affects the Size of Image Produced</i>
Jahan Razavi	Mirman School	First Place J1037 Split group: B	<i>PyroVision: A Detection System for Wildfires</i>

ENGINEERING APPLICATIONS (SR) S08

Shannon Chen	Palos Verdes Peninsula High School	Third Place S0803 Split group: –	<i>Design and Construction of a Miniature Helium Airship</i>
Christopher Isozaki	Palos Verdes High School	Second Place S0810 Split group: –	<i>Reducing the Amount of Electricity Used by Computers Utilizing Green Technologies</i>
Rei Landsberger	Palos Verdes Peninsula High School	First Place S0812 Split group: –	<i>Effects of a Fluid-Tracking Design on Solar Panel's Efficiency</i>

ENGINEERING RESEARCH (JR) J11

Jeanie Benedict	St. John Fisher School	Third Place J1103 Split group: –	<i>The Chinchilla - For the Coolest Pet on the Block: Effect of Air Flow Restriction on Evaporative Cooling</i>
Donald MacArthur	American Martyrs School	Second Place J1128 Split group: –	<i>The Effect of a Cooler Condenser in Distilling Freshwater from Saltwater</i>
Max Froch	Milken Community Schools	First Place J1116 Split group: –	<i>Creating Images that Represent both Monocular and Binocular Vision of an Averaged Sized Clydesdale Horse</i>

ENGINEERING RESEARCH (SR) S09

Jasmine Cha	Village Christian High School	Second Place S0902 Split group: –	<i>The Snitch on the Stitch</i>
Raymond Gilmartin	South Pasadena High School	First Place S0904 Split group: –	<i>Characterization of Magnetic Tunnel Junctions to Improve Tunnel Magnetoresistance for Next-Generation Memory Technologies</i>

ENVIRONMENTAL MANAGEMENT (JR) J12

Emily Banno	Portola Middle School & HGM	Second Place J1206 Split group: –	<i>What is the Best Mulch Material to Prevent Soil Water Evaporation?</i>
Katherine Matsukawa	San Gabriel Christian School	First Place J1222 Split group: –	<i>Photobioreactors vs. Raceway Ponds</i>

ENVIRONMENTAL MANAGEMENT (SR) S10

Huws Landsberger	Palos Verdes Peninsula High School	Second Place S1008 Split group: –	<i>The Effect of Temperature on Salt Marsh Plant Growth</i>
Martin Liu Kimberly Fuentes Zoe Parcels	Santa Monica High School	First Place S1011 Split group: –	<i>Cigarette Butt Pollution Abundance Study</i>

MATERIALS SCIENCE (JR) J13

Jennifer Hritz	Portola Middle School & HGM	Second Place J1312 Split group: –	<i>How do Various Materials and Methods for Creating Static Electricity Affect the Ability to Generate and Store Static Electricity?</i>
So-Jung An	Walter Reed Middle School	First Place J1304 Split group: –	<i>Playing With Pencils</i>

MATHEMATICS & COMPUTER SCIENCES (JR) J14

Evan Vail	St. Joseph Long Beach	Third Place J1410 Split group: –	<i>The Groovy Gratings Experiment: Using Diffraction Patterns to Measure Data Track Spacing on CDs and DVDs</i>
Kaylen Ng	Ridgecrest Intermediate School	Second Place J1407 Split group: –	<i>Experimental Theory of Using Bubbles as a Sustainable Source of Air Underwater</i>
Andrew Shaheen	St. Joseph Long Beach	First Place J1409 Split group: –	<i>Basketball: The Geometry of Banking a Basket</i>

MATHEMATICS & COMPUTER SCIENCES (SR) S11

Raam Tambe	Palos Verdes Peninsula High School	Third Place S1108 Split group: –	<i>The Effects of Neutral Agents on the Expansion of Ideology in a Hypothetical Social Space</i>
George Hou	Arcadia High School	Second Place S1103 Split group: –	<i>Separating Mixed Signals in a Noisy Environment Using Global Optimization</i>
Sanath Devalapurkar	West High School	First Place S1101 Split group: –	<i>The K-Theory of Symmetric Monoidal ∞- Categories of Modules</i>

MICROBIOLOGY (JR) J15

James Bowden	Portola Middle School & HGM	Second Place J1502 Split group: –	<i>Antibiotic Resistance By Repeated Exposure</i>
Tai Michaels	Portola Middle School & HGM	First Place J1512 Split group: –	<i>Which Virus is Better at Killing Bacteria?</i>

MICROBIOLOGY (SR) S12

Sophia Hewitt	North Hollywood High School	Second Place S1203 Split group: –	<i>Optimizing Chromosomal Exposure for Florescence In Situ Hybridization in Tetrohymena thermophila</i>
Elan Filler	Palos Verdes High School	First Place S1202 Split group: –	<i>Transcriptional Regulators as Drug Targets for Treatment of C. glabrata Infection</i>

PHARMACOLOGY (JR) J16

Aliyah Dost	Institute of Knowledge	Second Place J1602 Split group: –	<i>Operation Combat Cholesterol</i>
Aiman Soomro	Institute of Knowledge	First Place J1605 Split group: –	<i>Constant Constipation</i>

PHARMACOLOGY (SR) S13

Eunice Padilla	Francisco Bravo Medical Magnet High School	Third Place S1302 Split group: –	<i>The Effect of Pseudoephedrine on the Cardiovascular System of the California Blackworms</i>
Rebecca Sine	Francisco Bravo Medical Magnet High School	Second Place S1303 Split group: –	<i>Allopregnanolone Site of Action for Promoting Regeneration of Human Neural Stem Cells: Uncovering the Path for the Detection of Neurogenesis</i>
Edward Park	Larchmont Charter School	First Place S1398 Split group: –	<i>Hybrid Biosensor Capable of Early Diagnosis and Rapidly Monitoring Breast Cancer</i>

PHYSICS - AERODYNAMICS/HYDRODYNAMICS (JR) J17

Ethan Kita	San Gabriel Christian School	Third Place J1719 Split group: –	<i>Tangle of the Flight Angles</i>
Nicholas Tan	Mayfield Junior School of the Holy Child Jesus	Second Place J1732 Split group: –	<i>Planes, Birds and V-Shapes</i>
Dylan Lee	Portola Middle School & HGM	First Place J1721 Split group: –	<i>What is the Most Efficient Angle of Attack of an Airplane's Wing?</i>

PHYSICS - ELECTRICITY & MAGNETISM (JR) J18

Samuel Wentzel	St. Mel School	Third Place J1829 Split group: –	<i>The Utilization of Thermal Couplers</i>
Iliana Kleiner	Millikan Science Academy School	Second Place J1814 Split group: –	<i>Power of Shields</i>
Matthew Prata Jacob Passalaqua	Holy Name of Mary School	First Place J1819 Split group: –	<i>Just Charge It</i>

PHYSICS - GENERAL (JR) J19

Drew Quishenberry	Aveson Global Leadership Academy	Second Place J1971 Split group: A	<i>The Visualization of Sound</i>
Nicholas Sercel	St. Bede The Venerable	Second Place J1976 Split group: B	<i>A Ballistic Pendulum Study of How Clothing Fabric Properties Effect Momentum and Energy Transfer of Paintballs to Simulated Human Flesh</i>
Chloe Brandon	Sierra Madre Middle School	First Place J1911 Split group: A	<i>What is the Effect of Color on Solar Water Heating?</i>
Neil Hoffmann	St. John Fisher School	First Place J1938 Split group: B	<i>The Tarzan Problem</i>

PHYSICS (SR) S14

Clement Decker	St. Monica Academy - High School	Second Place S1404 Split group: –	<i>Comparing Quantum and Classical Explanations for the Non-Interference of Orthogonally-Polarized Light Waves</i>
Clarence Nakano	Flintridge Preparatory School (High School)	First Place S1408 Split group: –	<i>Biological Electron-Transfer Dynamics in Multiheme Cytochrome Complexes</i>

PLANT BIOLOGY (JR) J20

Sadie Huntley	Arroyo Seco Museum Science Magnet School	Third Place J2025 Split group: B	<i>Water From Its Roots</i>
Raquel Kaufman	New Los Angeles Charter School	Second Place J2029 Split group: B	<i>What Type of Grass Has the Largest Amount of Biomass?</i>
Johan Thuen	Sierra Madre Middle School	Second Place J2050 Split group: A	<i>Lights From The Sea: How Do Light/Dark Cycles Affect Bioluminescence?</i>
Anthony Castillo	Our Lady of Refuge Catholic School	First Place J2012 Split group: A	<i>Is Less More?: The Effect of Fertilizer Microdosing on Non-GMO Diploid Yemeni Watermelon Seeds</i>
Megan Kohanarieh	Milken Community Schools	First Place J2031 Split group: B	<i>Germinating a mixture of Lolium perenne and Poa pratensis L.: Grey Water vs. Tap Water</i>

PLANT BIOLOGY (SR) S15

Adaeze Oduma	King/Drew Magnet High School of Medicine & Science	Second Place S1506 Split group: –	<i>The Effect of Wind Speed on Seed Dispersal</i>
Heather Robinson Amelia Dibbo	Palos Verdes High School	First Place S1508 Split group: –	<i>Effects of Temperature Manipulation on Vitamin C Levels</i>

PLANT PHYSIOLOGY (JR) J21

Muhammad Abd-Allah	New Dimensions Middle School	Third Place J2101 Split group: –	<i>The Impact of Vitamins in Negating Hydrogen Peroxide Oxidant Effects on Seed Germination</i>
Safiyah Lakhany	Institute of Knowledge	Second Place J2109 Split group: –	<i>Holy Spinach</i>
Isaiah O'Neal	Portola Middle School & HGM	First Place J2112 Split group: –	<i>Plant Electrophysiology - How Does the Stimulation of Trigger Hairs Affect the Generation of Action Potentials in a B52 Venus Flytrap?</i>

PRODUCT SCIENCE (JR) J22

William Labrador	Chandler School	Second Place J2218 Split group: –	<i>How Quickly do Tortilla Chips Become Stale?</i>
Annaliese Rupp	Holy Trinity Catholic School	First Place J2233 Split group: –	<i>"Mom, Do I Have to Rinse/Scrub The Plates Before I Put Them in The Dishwasher?"</i>
