J01 Milken Community Schools	First Place J0120 Split group: –	Analyzing the behaviors of Petrogale xanthopus in the Los Angeles Zoo		
Dana Middle School	Second Place J0115 Split group: –	Novel Spiral Microfluidic Devices Using the Elasto- Inertial Effect for Urinalysis Year 2		
nstitute of Knowledge	Third Place J0106 Split group: –	CAT VS CAT: Prevalence Of Intestinal Parasites In Shelter And Domestic Cats		
Monterey Highlands	Honorable Mention J0110 Split group: –	GMOs: Friend or Foe?		
uther Burbank Math Science and Technology Magnet	Honorable Mention J0107 Split group: –	Does Mating Wild Type Fruit Flies and Mutant Fruit Flies Produce More Wild Type or More Mutated Phenotypes?		
S01				
Flintridge Preparatory School (High School)	First Place S0105 Split group: –	An Acoustic Enhanced Blood Smear Device		
Palos Verdes High School	Second Place S0102 Split group: –	Correlation between Habitat Quality and Abundance/Diversity of California Birds		
Viewpoint School	Third Place S0103 Split group: –	Modulation of Mitochondrial DNA Mutation Frequency & Accumulation by Rapamycin and Caloric Restriction in Aging Mouse Muscle		
Rose and Alex Pilibos Armenian School- High School	Honorable Mention S0107 Split group: –	The Effect of UV Light Range Radiation on the Magnetosensitivity of Fruit Flies		
ANIMAL PHYSIOLOGY (JR) J02				
Al-Huda School	First Place J0207 Split group: –	The Battle of Wits		
Pressman Academy	Second Place J0209	Daphnia: Under the Influence		
	Dana Middle School Dana Middle School Institute of Knowledge Monterey Highlands Luther Burbank Math Science and Technology Magnet So1 Flintridge Preparatory School (High School) Palos Verdes High School Viewpoint School Rose and Alex Pilibos Armenian School- High School IR) J02 Al-Huda School	Milken Community Schools Pirst Place J0120 Split group: — Second Place J0115 Split group: — Institute of Knowledge Monterey Highlands Monterey Highlands Monorable Mention J0110 Split group: — Luther Burbank Math Science and Technology Magnet Honorable Mention J0107 Split group: — Sol First Place S0105 Split group: — Palos Verdes High School Palos Verdes High School Piewpoint School Miewpoint School Miewpoint School Miewpoint School First Place S0102 Split group: — Monorable Mention J0107 Split group: — Palos Verdes High School First Place S0102 Split group: — Monorable Mention S0103 Split group: — Place S0107 Split group: — Place J0207 Split group: — First Place J0207 Split group: — Place J0207 Split group: —		

		Page 2
Village Christian Middle School	Third Place J0204 Split group: –	Now You See! Now You Don't?
St. Timothy School	Honorable Mention J0205 Split group: –	X-Inactivation Marks the Spot
Arroyo Seco Museum Science Magnet School	Honorable Mention J0206 Split group: –	Is Seeing Believing?
GY (SR) S02		
Francisco Bravo Medical Magnet High School	First Place S0201 Split group: –	Abscisic Acid Effects on Cell Proliferation
Palos Verdes Peninsula High School	Second Place S0204 Split group: –	Utilizing a Fluorescent Hsp22 Pathway to Discover Lifespan- Increasing Genes in the Drosophila Melanogaster
San Pedro High School - Olguin Campus	Third Place S0203 Split group: –	An Examination of the Factors that Contribute to Egg-laying of Pacific Swell Shark (Cephaloscyllium ventriosum)
Los Angeles County High School for the Arts (LACHSA)	Honorable Mention S0205 Split group: –	Investigating the Correlation of Duration of Sleep, Meal Times, and Body Temperature on a Person's Circadian Rhythm Affecting Performance Level
Los Angeles County High School for the Arts (LACHSA)	Honorable Mention S0202 Split group: –	Germ Wars: Microbial Components of the Saliva of Felis Domesticus and Canis Familiaris
ICES - NON-HUMAN (JR)	J03	
Portola Middle School & HGM	First Place J0306 Split group: –	Retention of Larval Stage Conditioning in Post- Metamorphic Pieris Rapae Butterflies; Can Butterflies Remember Being a Caterpillar?
Village Christian Middle School	Second Place J0308 Split group: –	How do Different Colors Affect a Turtle's Movement Throughout a Maze?
Fleming Middle School	Third Place J0301 Split group: –	Coffee Buzzz
	Village Christian Middle School St. Timothy School Arroyo Seco Museum Science Magnet School Francisco Bravo Medical Magnet High School Palos Verdes Peninsula High School - Olguin Campus Los Angeles County High School for the Arts (LACHSA) Los Angeles County High School for the Arts (LACHSA) ICES - NON-HUMAN (JR) Portola Middle School & HGM Village Christian Middle School	School St. Timothy School St. Timothy School Arroyo Seco Museum Science Magnet School Francisco Bravo Medical Magnet High School Palos Verdes Peninsula High School San Pedro High School Olguin Campus School for the Arts (LACHSA) Los Angeles County High School for the Arts (LACHSA) Clack Los Angeles County High School for the Arts (LACHSA) Clack Portola Middle School & First Place S0204 Split group: — Honorable Mention S0203 Split group: — Honorable Mention S0205 Split group: — First Place J0306 Split group: — Willage Christian Middle School First Place J0308 Split group: — Village Christian Middle School Third Place J0308 Split group: — Fleming Middle School Third Place J0301

SCIENCES - HUMAN (J Institute of Knowledge	First Place	S
	J0433 Split group: –	Eating Disorders Comorbid with Depression
John Muir Middle School	Second Place J0411 Split group: –	Money and the Mind
Pressman Academy	Third Place J0431 Split group: –	P vs. No
Pressman Academy	Honorable Mention J0422 Split group: –	The Effects of Facts Vs. Feelings in Ads.
Al-Huda School	Honorable Mention J0418 Split group: –	I Crave To Behave!
Weizmann Day School	Honorable Mention J0408 Split group: –	The Golden Rule
Institute of Knowledge	Honorable Mention J0402 Split group: –	Intellect Vs Imagination: HowDoes Your Brain Work?
Al-Huda School	Honorable Mention J0403 Split group: –	Chalkboard vs. Whiteboard
SCIENCES (SR) S03		
Francisco Bravo Medical Magnet High School	First Place S0307 Split group: –	The Neural Limitations of Small Invertebrates: Effects of Electrical Shocks on the Behavior of Brine Shrimp
Crescenta Valley High School	Second Place S0311 Split group: –	The Effects of Video Games on Cognitive Function
Palos Verdes Peninsula High School	Third Place S0305 Split group: –	Effects of Avatar-Based Virtual Reality on Veracity Perception and Kinetosis
ECULAR BIOLOGY (JR	R) J05	
Youth Science Center	First Place J0511 Split group: –	Organic and Conventional Chicken under the Microscope: A Pilot Study Comparing Protein Quality
	Pressman Academy Pressman Academy Al-Huda School Weizmann Day School Institute of Knowledge Al-Huda School SCIENCES (SR) S03 Francisco Bravo Medical Magnet High School Crescenta Valley High School Palos Verdes Peninsula High School ECULAR BIOLOGY (JR	John Muir Middle School John Muir Middle School Pressman Academy Pressman Academy Third Place J0431 Split group: — Pressman Academy Honorable Mention J0422 Split group: — Al-Huda School Weizmann Day School Institute of Knowledge Al-Huda School Honorable Mention J0408 Split group: — Institute of Knowledge Honorable Mention J0408 Split group: — Al-Huda School Honorable Mention J0402 Split group: — Al-Huda School First Place S0307 Split group: — Crescenta Valley High School Palos Verdes Peninsula High School Third Place S0305 Split group: — ECULAR BIOLOGY (JR) Youth Science Center First Place J0511

2015 Los Angeles Cou	nty Science Fair Catego	ry Winners	Page 4
Jad Soucar	New Horizon School Pasadena	Second Place J0521 Split group: –	It's More than a Weed, it's Sunscreen
Cindy Xie	Portola Middle School & HGM	Third Place J0525 Split group: –	It's Nutty: Amount of Calories in Different Kinds of Nuts
George Percival	Walter Reed Middle School	Honorable Mention J0517 Split group: –	To Stain Or Not To Stain?
Hagop Chinchinian	AGBU Manoogian- Demirdjian School (Junior Division)	Honorable Mention J0505 Split group: –	Damaged DNA: The Effect of Different Levels of Artificially Induced Glycosylases and AP Endonucleases on Damaged DNA Caused by UV Radiation
Lojain Alshaiji	New Horizon School Pasadena	Honorable Mention J0501 Split group: –	To Brown or Not To Brown
BIOCHEMISTRY & MOL	ECULAR BIOLOGY (SR) S04	
Cody Lim	Francisco Bravo Medical Magnet High School	First Place S0408 Split group: –	Optimizing Viral Vectors for Site-Specific Gene Therapy in Hematopoietic Stem Cells
Emily Kim	Palos Verdes Peninsula High School	Second Place S0407 Split group: –	Electrophysiology-based Screen to Discover Genes Involved in Synaptic Homeostasis
Braeden Benedict	Palos Verdes Peninsula High School	Third Place S0402 Split group: –	Pathology and Chemistry of the Brain in Sanfilippo Syndrome Type B
Brandon Ng	Walnut High School	Honorable Mention S0409 Split group: –	Create a New Target- Specific Cytotoxic RNA and Examine its Viability For Use Against HIV
Aleck Sun	Francisco Bravo Medical Magnet High School	Honorable Mention S0411 Split group: –	Constructing Synthetic Positive Feedback Loops to Reinforce Motor Neuron Fate Commitment
CHEMISTRY - APPLIED	(JR) J06		
Faatima Zahra Motala	Institute of Knowledge	First Place J0619 Split group: –	Got Biodiesel?

2015 Los Angeles Cou	nty Science Fair Catego	ory Winners	Page 5
Chloë Blue Steckart	St. Timothy School	Second Place J0611 Split group: –	The Degradation of Ascorbic Acid: Effects of Electromagnetic Radiation, Convection Currents, and Time (Oh Say Can You SeeVitamin C!)
Liam FitzGerald	St. John Fisher School	Third Place J0602 Split group: –	More Water, Please
Isabella Hoffman	Pressman Academy	Honorable Mention J0618 Split group: –	Salt, Ice, and Everything Nice
Amanda Martinez	El Sereno Gifted Magnet Center	Honorable Mention J0624 Split group: –	The Power of Potatoes
Robert Peltekov	Miraleste Intermediate School	Honorable Mention J0634 Split group: –	Prototyping A More Exact Drug Release Mechanism
CHEMISTRY - GENERA	L (JR) J07		
Jessie Ellico Franks	Sierra Madre Middle School	First Place J0717 Split group: A	Anthocyanins as Color Changing Acid Indicators
Erik Mercado	Our Lady of Refuge Catholic School	Second Place J0735 Split group: A	How Does Time Affect the Amount of Vitamin C in Oranges?
Larisa Assadourian	St. Gregory A&M Hovsepian School	Third Place J0706 Split group: A	The Effect of Moisturizers on Skin Moisture Retention
Jacque Forman	Echo Horizon School	Honorable Mention J0719 Split group: A	Electrolyte Challenge
Angelo Christian Panopio	Magnolia Science Academy Reseda	Honorable Mention J0739 Split group: A	Turn Milk Into Plastic!
Emily Sarte	Our Mother of Good Counsel School	Honorable Mention J0747 Split group: A	Trash to Triumph
Amr Alazali	Sun Valley Magnet School	Honorable Mention J0703 Split group: A	Gel Well: Which additives make the strongest gelatin?
Sarah Danon Nicole Dersahakian	Porter Ranch Community School	First Place J0715 Split group: B	Which Blond is Best?

	unty Science Fair Catego		Page 6
Sophie Carter Cameron Gomez	Sierra Madre Middle School	Second Place J0714	Kinetics of the Inversion of Sucrose
		Split group: B	
Mia Pardo	Ribét Academy Middle School	Third Place J0740 Split group: B	Examination of Tartrate
Yulissa Mendez	New Los Angeles Charter School	Honorable Mention J0734 Split group: B	Measuring The Sugar In Different Sodas
Tyler Romero	Aveson Global Leadership Academy	Honorable Mention J0745 Split group: B	To Clean Or Not To Clean
Pawee Akkharachotmongkhol	John Muir Middle School	Honorable Mention J0702 Split group: B	How Does the Amount of White Vinegar Affected the Amount of Casein Plastic can be Produced?
CHEMISTRY (SR) S05			
Taniel Keosseian	Rose and Alex Pilibos Armenian School- High School	First Place S0512 Split group: –	Make Cellphone Spectrophotometer to See Light
Diana Palma	Saint Anthony High School	Second Place S0518 Split group: –	Polystyrene and its Effectiveness of Removing Calcium and Magnesium from Water
Jessica Estrada	King/Drew Magnet High School of Medicine & Science	Third Place S0507 Split group: –	The Effect of Casein on the Strength and Photodegradability of Handmade Recycled Paper
Maria Medrano	King/Drew Magnet High School of Medicine & Science	Honorable Mention S0516 Split group: –	Different Ways to Make Crayon Lipstick
Janet Marie Hernandez	Pomona Unified School District Senior Division	Honorable Mention S0509 Split group: –	Hard Water and Soft Water
Max Brown	The Navigator Academy- High School	Honorable Mention S0504 Split group: –	Shield the Steel: Arresting Rust Insomnia Naturally
EARTH/SPACE SCIEN	CES (JR) J08		
George Khouri	Sierra Canyon School	First Place J0813 Split group: –	Put Your Soil To The Test!
Matas Kulikauskas	South Pasadena Middle School	Second Place J0814 Split group: –	A Puzzling Parallax Perspective

2015 Los Angeles Cou	inty Science Fair Catego	ory Winners	Page 7
Mia Dixon Evelyn Favretto	Mayfield Junior School of the Holy Child Jesus	Third Place J0808 Split group: –	Erosion of Simulated Shorelines
Brady Masih	St. Timothy School	Honorable Mention J0815 Split group: –	The Effect of Acid on Seashells
Dorian Andrei	John Muir Middle School	Honorable Mention J0802 Split group: –	How Does Altitude Affect the Amount of Solar Radiation?
Pamela Cana	Luther Burbank Math Science and Technology Magnet	Honorable Mention J0805 Split group: –	Which Type of Greenhouse Gas is More Effective for Global Warming?
EARTH/SPACE SCIENCE	CES (SR) S06		
Ethan Uetrecht	Palos Verdes Peninsula High School	First Place S0606 Split group: –	Assessing the Practicality of Asteroid Deflection Strategies Using Simulation
Kaitlyn Arst	Daniel Pearl Magnet High School	Second Place S0602 Split group: –	Use of Starch and Biopolymers Aqueous Solutions to Reduce Soil Erosion
Zoe Zawol	Pasadena High School	Third Place S0609 Split group: –	The Effect of Strong Magnetic Fields Caused by Broadcast Antennas on the Local Cosmic Ray Flux
ECOLOGY (JR) J09			
Caroline Choi	South Pasadena Middle School	First Place J0905 Split group: –	Drugs in Our Waters Make Daphnia's Hearts Flutter
Logan Dalton	Portola Middle School & HGM	Second Place J0906 Split group: –	Examining Potential Well Water Contamination
Samantha Morris Christina Lee Angela Lee	Mirman School	Third Place J0913 Split group: –	H2O: Hope to Others
Kyle Newman	Milken Community Schools	Honorable Mention J0914 Split group: –	Determining the Accuracy of Three Methods in Identifying the Presence of Cyanobacteria in the Ballona Wetlands During the Winter Season
Curtis Yun	Village Christian Middle School	Honorable Mention J0926 Split group: –	Purification of Water through Natural Factors. Is it Possible?

2015 Los Angeles Cou	nty Science Fair Catego	ory Winners	Page 8
Ashley Castro	Arroyo Seco Museum Science Magnet School	Honorable Mention J0904 Split group: –	LA River: Concrete Floor vs Natural Floor
Echo Seireeni	Millikan Science Academy School	Honorable Mention J0922 Split group: –	The Mini MixMasters of the Sea: How Copepods Affect Ocean Water Mixing
ECOLOGY (SR) S07			
Michael McFarland	Palos Verdes Peninsula High School	First Place S0704 Split group: –	The Potential Impact of Hyperion Treatment Plant's Chlorinated Effluent and West Basin Brine on Marine Organisms
Lilit Danelyan Siranush Martirosyan Bianca Mirza	Herbert Hoover High School	Second Place S0701 Split group: –	Effect of Plastic on Laysan Albatross
Natachi Onwudiwe	California Academy of Math & Science	Third Place S0705 Split group: –	How does Proximity to the Ocean affect the Conductivity of the L.A. River?
ENGINEERING APPLIC	ATIONS (JR) J10		
Grady Morrissey	Flintridge Preparatory School (Middle School)	First Place J1034 Split group: A	How the Shape of a Telescope's Mirror Affects the Size of Image Produced
Alessandro Villain Jae Won Kwak	Ridgecrest Intermediate School	Second Place J1048 Split group: A	Comparing the Versatility of an Aftermarket Controller from its Standard Counterpart
Heaven Williams	Crawford Academy	Second Place J1049 Split group: A	Solar Water Collector: Effect of Collector Diameter, Tilt, and Cover Material on Efficiency
Allison Lowe	Intellectual Virtues Academy	Honorable Mention J1030 Split group: A	Oh Say Can You See?
Ashley Davy	St. Joseph Long Beach	Honorable Mention J1015 Split group: A	Hot Air Balloon Madness
Ivy Goodwin	Intellectual Virtues Academy	Honorable Mention J1020 Split group: A	Finding Renewable Sources of Paper Fiber
Azrin Khan	El Sereno Gifted Magnet Center	Honorable Mention J1026 Split group: A	Funtional Prosthetic Hand for Everyday Activities

2015 Los Angeles Cou	nty Science Fair Catego	ory Winners	Page 9
Daniella Spina Sofia Goldschmidt	St. Joseph Long Beach	Honorable Mention J1043 Split group: A	MUAX-UUV (Multi-Axis Unmanned Underwater Vehicle)
Jahan Razavi	Mirman School	First Place J1037 Split group: B	PyroVision: A Detection System for Wildfires
Jonathan Abrams	Milken Community Schools	Second Place J1002 Split group: B	The Claw Cane; A Cane with a Claw Mechanism for Picking up Dropped Items
Melany Arriola Camila Fernandez	Magnolia Science Academy 6	Third Place J1005 Split group: B	Landslides, Soils, and Building Foundations
Jordan Feldman	Pressman Academy	Honorable Mention J1016 Split group: B	"Look Ma No Hands"- On the Path to Programming a Brain-Controlled Vehicle
Lauren Kong	Ridgecrest Intermediate School	Honorable Mention J1027 Split group: B	Projecting A Brighter Future: Placing Reflective Materials On The Interior Of A Lampshade To Increase The Scope And Intensity Of The Projected Light
Ryan Biazzo	Royal Oak Middle School	Honorable Mention J1008 Split group: B	Endure-Boost Exo- Skeleton
Stacey Bedolla	St. Joseph Long Beach	Honorable Mention J1007 Split group: B	Tornado Chamber
Sebastian Cordero	Our Mother of Good Counsel School	Honorable Mention J1014 Split group: B	Floating on Air The Effect of an Air Ventilation System on the Drag Force of a Ship
ENGINEERING APPLIC	ATIONS (SR) S08		
Rei Landsberger	Palos Verdes Peninsula High School	First Place S0812 Split group: –	Effects of a Fluid-Tracking Design on Solar Panel's Efficiency
Christopher Isozaki	Palos Verdes High School	Second Place S0810 Split group: –	Reducing the Amount of Electricity Used by Computers Utilizing Green Technologies
Shannon Chen	Palos Verdes Peninsula High School	Third Place S0803 Split group: –	Design and Construction of a Miniature Helium Airship

2015 Los Angeles C Eric Han	ounty Science Fair Catego Harvard-Westlake School		Page 10 MRI Noise Reduction through Intelligent Data Acquisition
Cheolmin Im	Palos Verdes Peninsula High School	Honorable Mention S0809 Split group: –	Bézier Curve Based 3D Wing Design Tool (BezFoil) Development (YEAR 2)
Michael Culhaoglu	AGBU Manoogian- Demirdjian School (Senior Division)	Honorable Mention S0805 Split group: –	iWalker Prototype
ENGINEERING RESI	EARCH (JR) J11		
Max Froch	Milken Community Schools	First Place J1116 Split group: –	Creating Images that Represent both Monocular and Binocular Vision of an Averaged Sized Clydesdale Horse
Donald MacArthur	American Martyrs School	Second Place J1128 Split group: –	The Effect of a Cooler Condenser in Distilling Freshwater from Saltwater
Jeanie Benedict	St. John Fisher School	Third Place J1103 Split group: –	The Chinchiller - For the Coolest Pet on the Block: Effect of Air Flow Restriction on Evaporative Cooling
Shiv Patel	Ridgecrest Intermediate School	Honorable Mention J1133 Split group: –	This Experiment Tests the Amount of hits a Gold, P.F. M, and E-max Can Take Before Signs of Initial and Complete Failure.
Andrew Karroum	Nativity Catholic School - Torrance	Honorable Mention J1121 Split group: –	The Effect of Bracing Type on Structural Integrity
Kaitlyn Marcarian	Chamlian Armenian School	Honorable Mention J1129 Split group: –	Defying Gravity
Kiyan Lies	St. John Fisher School	Honorable Mention J1125 Split group: –	Building a Hovercraft out of Common Materials and Testing Weight Support
Jon Louis Mbakata	Our Mother of Good Counsel School	Honorable Mention J1130 Split group: –	The Effect of a Pipe's Diameter on the Efficiency of a Hydroelectric Power Plant
John Olson	St. John Fisher School	Honorable Mention J1132 Split group: –	Solar Power

	inty Science Fair Catego	ory Winners	Page 11
ENGINEERING RESEA Raymond Gilmartin	South Pasadena High School	First Place S0904 Split group: –	Characterization of Magnetic Tunnel Junctions to Improve Tunnel Magnetoresistance for Next-Generation Memory Technologies
Jasmine Cha	Village Christian High School	Second Place S0902 Split group: –	The Snitch on the Stitch
Timothy Santos	California Academy of Math & Science	Third Place S0911 Split group: –	What is the Effect of Temperature on the Discharge Rate of Lithium- ion Batteries?
Azad Moazzam-Doulat	Ribét Academy High School	Honorable Mention S0909 Split group: –	Designing an Ideal Radiation Shield, Year 2
Eugene Ko Finley Jacobsen	Grand Arts / Cortines High School	Honorable Mention S0908 Split group: –	tDCS and its Effects on Cognitive Function
ENVIRONMENTAL MAI	NAGEMENT (JR) J12		
Katherine Matsukawa	San Gabriel Christian School	First Place J1222 Split group: –	Photobioreactors vs. Raceway Ponds
Emily Banno	Portola Middle School & HGM	Second Place J1206 Split group: –	What is the Best Mulch Material to Prevent Soil Water Evaporation?
Dania Ansari	Institute of Knowledge	Third Place J1203 Split group: –	Water Does Not Grow On Trees
Madison Dietz	St. Martin of Tours	Third Place J1212 Split group: –	Let There Be Light
Alistair McMillan	New Los Angeles Charter School	Honorable Mention J1223 Split group: –	Are Clovers a Suitable Lawn Alternative to Grass?
Cooper Zell	Robert A. Millikan Middle School	Honorable Mention J1240 Split group: –	Got Clogs? Which Toilet Paper Brand Degrades the Quickest?
Rohan Jayasekara	Blair Middle School	Honorable Mention J1219 Split group: –	Can Mushrooms Clean Polluted Soil?

2015 Los Angeles Cor	unty Science Fair Catego	ory Winners	Page 12
James Monroe	The Navigator Academy Middle School	Honorable Mention J1224 Split group: –	pHarming Smart: Soil Additives in Drought Conditions
Jeffrey Shen	Millikan Science Academy School	Honorable Mention J1236 Split group: –	Dun(g) With Fossil Fuels: The Study of Biogas
Alexa Nesic	Millikan Science Academy School	Honorable Mention J1225 Split group: –	Ancient Bacteria for the Future: Spirulina Solar Cell
Kate Reilly	American Martyrs School	Honorable Mention J1232 Split group: –	Acid Bath
Lauren Harris	Millikan Science Academy School	Honorable Mention J1217 Split group: –	Solar Solution for Clean Water
Muhammad Ali	Institute of Knowledge	Honorable Mention J1202 Split group: –	Disappearing Bioplastic
ENVIRONMENTAL MA	NAGEMENT (SR) S10		
Martin Liu Kimberly Fuentes Zoe Parcells	Santa Monica High School	First Place S1011 Split group: –	Cigarette Butt Pollution Abundance Study
Huws Landsberger	Palos Verdes Peninsula High School	Second Place S1008 Split group: –	The Effect of Temperature on Salt Marsh Plant Growth
Sarah El-khalily	Francisco Bravo Medical Magnet High School	Third Place S1006 Split group: –	Testing Different Plants for Filtration of Nitrates
Rachel Hood	Palos Verdes High School	Honorable Mention S1007 Split group: –	Watering Amounts in Coastal Los Angeles Grasses
MATERIALS SCIENCE	(JR) J13		
So-Jung An	Walter Reed Middle School	First Place J1304 Split group: –	Playing With Pencils
Jennifer Hritz	Portola Middle School & HGM	Second Place J1312 Split group: –	How do Various Materials and Methods for Creating Static Electricity Affect the Ability to Generate and Store Static Electricity?
Nicholas Rivelle	Flintridge Preparatory School (Middle School)	Third Place J1326 Split group: –	Relative Strength of Five Common Wood Joints

	unty Science Fair Catego		Page 13
Maia Sung	Ridgecrest Intermediate School	Honorable Mention J1330 Split group: –	The Effects of Color on the Performance of Thermobimetal under Radiant Heat
Samantha Bevers	South Pasadena Middle School	Honorable Mention J1306 Split group: –	Which Material Will Save Us From Radiation?
Claire Schmidt	Holy Angels School	Honorable Mention J1329 Split group: –	Pykrete: Super Ice!
Ryan Cartledge	Our Lady of Refuge Catholic School	Honorable Mention J1308 Split group: –	Fed Up With Wi-Fi?
Hannah Gansert	Sierra Canyon School	Honorable Mention J1310 Split group: –	Aluminum Composite Horseshoe
Emilie Nunn Alexa Zuch	Mayfield Junior School of the Holy Child Jesus	Honorable Mention J1323 Split group: –	Edible Water Bottles
Alexander Matiossian	Chamlian Armenian School	Honorable Mention J1318 Split group: –	The Effect of Acids in Various Drinks on Limestone
MATHEMATICS & CON	IPUTER SCIENCES (JR)	J14	
Andrew Shaheen	St. Joseph Long Beach	First Place J1409 Split group: –	Basketball: The Geometry of Banking a Basket
Kaylen Ng	Ridgecrest Intermediate School	Second Place J1407 Split group: –	Experimental Theory of Using Bubbles as a Sustainable Source of Air Underwater
Evan Vail	St. Joseph Long Beach	Third Place J1410 Split group: –	The Groovy Gratings Experiment: Using Diffraction Patterns to Measure Data Track Spacing on CDs and DVDs
Albert Liu	Portola Middle School & HGM	Honorable Mention J1406 Split group: –	Can Morphological Noise Removal Algorithms be Optimized in Order to Lower the Standard Deviation and Average Error?
Jack Pearce	St. Joseph Long Beach	Honorable Mention J1408 Split group: –	Finding the Viscosities of Liquids

2015 Los Angeles Cou	nty Science Fair Catego	ory Winners	Page 14	
Youssef Zerroug	New Horizon School Pasadena	Honorable Mention J1412 Split group: –	Do you know your Wi-Fi?	
MATHEMATICS & COM	PUTER SCIENCES (SR)	S11		
Sanath Devalapurkar	West High School	First Place S1101 Split group: –	The K-Theory of Symmetric Monoidal ∞- Categories of Modules	
George Hou	Arcadia High School	Second Place S1103 Split group: –	Separating Mixed Signals in a Noisy Environment Using Global Optimization	
Raam Tambe	Palos Verdes Peninsula High School	Third Place S1108 Split group: –	The Effects of Neutral Agents on the Expansion of Ideology in a Hypothetical Social Space	
Emon Sahaba Rony Contreras	Francisco Bravo Medical Magnet High School	Honorable Mention S1107 Split group: –	Decoding the Patterns in Brain Activity: A Multi- fractal Investigation of Actions and Intentions	
MICROBIOLOGY (JR)	J15			
Tai Michaels	Portola Middle School & HGM	First Place J1512 Split group: –	Which Virus is Better at Killing Bacteria?	
James Bowden	Portola Middle School & HGM	Second Place J1502 Split group: –	Antibiotic Resistance By Repeated Exposure	
Tess Robertson-Neel	Flintridge Preparatory School (Middle School)	Third Place J1515 Split group: –	Can SODIS Compete?: Is solar distillation a reliable water purification method?	
Luke Quezada	South Pasadena Middle School	Honorable Mention J1514 Split group: –	Meat Mystery	
Anushka Mukhey	St. Martin of Tours	Honorable Mention J1513 Split group: –	Can You Resist Me?	
MICROBIOLOGY (SR) S12				
Elan Filler	Palos Verdes High School	First Place S1202 Split group: –	Transcriptional Regulators as Drug Targets for Treatment of C. glabrata Infection	
Sophia Hewitt	North Hollywood High School	Second Place S1203 Split group: –	Optimizing Chromosomal Exposure for Florescence In Situ Hybridization in Tetrohymena thermophila	

2015 Los Angeles Cour	nty Science Fair Catego	ory Winners	Page 15
Claire Muscat Danielle Castillo	Village Christian High School	Honorable Mention S1204 Split group: –	How to Disinfect Water- Effective Methods of Disinfecting Water
Adam Oshan	California Academy of Math & Science	Honorable Mention S1205 Split group: –	The Effect of Circadian Rhythm on Bioluminescence in Pyrocystis Fusiformis
Christine Ausherman	Village Christian High School	Honorable Mention S1201 Split group: –	Climate Dependent Analysis of Airborne Microbes
PHARMACOLOGY (JR)	J16		
Aiman Soomro	Institute of Knowledge	First Place J1605 Split group: –	Constant Constipation
Aliyah Dost	Institute of Knowledge	Second Place J1602 Split group: –	Operation Combat Cholesterol
Mahmoud Alamad	Al-Huda School	Third Place J1601 Split group: –	Relieve My Stress!
Jack Lulich	American Martyrs School	Honorable Mention J1603 Split group: –	"Bayer"ing the Pain
Hayat Owainat	New Horizon School Pasadena	Honorable Mention J1604 Split group: –	Organic vs Inorganic
PHARMACOLOGY (SR)	S13		
Edward Park	Larchmont Charter School	First Place S1398 Split group: –	Hybrid Biosensor Capable of Early Diagnosis and Rapidly Monitoring Breast Cancer
Rebecca Sine	Francisco Bravo Medical Magnet High School	Second Place S1303 Split group: –	Allopregnanolone Site of Action for Promoting Regeneration of Human Neural Stem Cells: Uncovering the Path for the Detection of Neurogenesis
Eunice Padilla	Francisco Bravo Medical Magnet High School	Third Place S1302 Split group: –	The Effect of Pseudoephedrine on the Cardiovascular System of the California Blackworms
Emilee Hall	Village Christian High School	Honorable Mention S1301 Split group: –	The Heart of the Problem: A Comparison and Analysis of Various Heartburn Remedies

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Dennis Chen	Palos Verdes Peninsula High School	Honorable Mention S1399 Split group: –	Testing the Simulation of AChE Inhibitors on BChE to Improve Upon the Design of Existing Drugs and Procedures
PHYSICS - AERODYNA	MICS/HYDRODYNAMIC	S (JR) J17	
Dylan Lee	Portola Middle School & HGM	First Place J1721 Split group: –	What is the Most Efficient Angle of Attack of an Airplane's Wing?
Nicholas Tan	Mayfield Junior School of the Holy Child Jesus	Second Place J1732 Split group: –	Planes, Birds and V- Shapes
Ethan Kita	San Gabriel Christian School	Third Place J1719 Split group: –	Tangle of the Flight Angles
Victoria Benefield	Classical Conversations Long Beach	Honorable Mention J1703 Split group: –	Lowering the Use of Fossil Fuels by Container Ships through Friction Reduction
Nicolas Winwood Xavier Haesly Donovan Ballard	Intellectual Virtues Academy	Honorable Mention J1799 Split group: –	Hovercraft
Austin Tran	American Martyrs School	Honorable Mention J1733 Split group: –	Propeller Design
Narek Kurkjian Marco Antonyan	Rose & Alex Pilibos Armenian School- Middle School	Honorable Mention J1720 Split group: –	Wave After Wave
Kami Arabian	Chamlian Armenian School	Honorable Mention J1701 Split group: –	Bloat. My Unsinkable Balloon-Supported Boat.
PHYSICS - ELECTRICIT	Y & MAGNETISM (JR)	J18	
Matthew Prata Jacob Passalaqua	Holy Name of Mary School	First Place J1819 Split group: –	Just Charge It
Iliana Kleiner	Millikan Science Academy School	Second Place J1814 Split group: –	Power of Shields
Samuel Wentzel	St. Mel School	Third Place J1829 Split group: –	The Utilization of Thermal Couplers
Jayden Kemanian	South Pasadena Middle School	Honorable Mention J1813 Split group: –	The "MAG"nificent Gaussian Rifle

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Conrad Davis	St. Cyril of Jerusalem School	Honorable Mention J1807 Split group: –	Reading at the Right Angle
PHYSICS - GENERAL	_(JR) J19		
Chloe Brandon	Sierra Madre Middle School	First Place J1911 Split group: A	What is the Effect of Color on Solar Water Heating?
Drew Quishenberry	Aveson Global Leadership Academy	Second Place J1971 Split group: A	The Visualization of Sound
Gabriela Mercado	Our Lady of Refuge Catholic School	Third Place J1956 Split group: A	How Does the Shape of an Eggshell's Arch Affect the Amount of Weight It Can Support?
Fatima Eyadat	Al-Huda School	Honorable Mention J1929 Split group: A	What Will Fall First?
Ariana Stiles	Sierra Canyon School	Honorable Mention J1980 Split group: A	Energetic Nuts
Armen Ghazarian	St. Gregory A&M Hovsepian School	Honorable Mention J1934 Split group: A	Does More Energy in a Spring Make the Ball Go Farther?
Caralynn Connolly	American Martyrs School	Honorable Mention J1919 Split group: A	Does a Balloon Retain Helium Better Indoors or Outdoors?
Eden Endewardt Hansy Zhang	Robert A. Millikan Middle School	Honorable Mention J1927 Split group: A	Egg-Tastic! The Study of Non-Newtonian Fluids
Gage Detchemendy	Mayfield Junior School of the Holy Child Jesus	Honorable Mention J1923 Split group: A	How Does the Type of Rollercoaster Affect the Amount of G-Forces Produced?
Jiamin Xu Jaemyung Choi	South Pasadena Middle School	Honorable Mention J1988 Split group: A	Top Vertex Angle In The Warren Truss Bridge Design
Christine Aghjayan Aleen Kuyumjian	Holy Martyrs Ferrahian Middle School	Honorable Mention J1901 Split group: A	How Can You Resist?
Jocelyn Chang Michael Chan Audrey Lim	San Gabriel Christian School	Honorable Mention J1917 Split group: A	Base Race

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Neil Hoffmann	St. John Fisher School	First Place J1938 Split group: B	The Tarzan Problem
Nicholas Sercel	St. Bede The Venerable	Second Place J1976 Split group: B	A Ballistic Pendulum Study of How Clothing Fabric Properties Effect Momentum and Energy Transfer of Paintballs to Simulated Human Flesh
Justin Delgado	Magnolia Science Academy 6	Third Place J1921 Split group: B	Flying High: How Ambient Temperature Affects the Buoyancy of Helium-filled Latex Balloons
Robert Wakefield-Carl	Ridgecrest Intermediate School	Honorable Mention J1987 Split group: B	Utilization of Ultrasonic Waves to Measure Temperature of Different Materials
Julia Demer	St. Timothy School	Honorable Mention J1922 Split group: B	The Yin and the Yang of the Ding
Rachel Lu	South Pasadena Middle School	Honorable Mention J1952 Split group: B	When Words Fail, Pianos Sing
Patrick Hastings	Flintridge Preparatory School (Middle School)	Honorable Mention J1936 Split group: B	Desalination
Nicholas Mihranian	AGBU Manoogian- Demirdjian School (Junior Division)	Honorable Mention J1957 Split group: B	Robotics VS Soundwaves
Kai Taylor	Aveson Global Leadership Academy	Honorable Mention J1981 Split group: B	The Science Behind Tsunamis
Nicholas Semenov	Robert A. Millikan Middle School	Honorable Mention J1975 Split group: B	Hitting the Mark: An investigation on the effects of angle to distance of a projectile
Noah von der Linden	Intellectual Virtues Academy	Honorable Mention J1986 Split group: B	The Effect of Weight Distribution on a RC Plane
Kiera Gonzalez-Lyons	Robert A. Millikan Middle School	Honorable Mention J1935 Split group: B	Sound Matters - A Study in Cymatics, the Science of How Sound Affects Matter
Saya Sarma	Flintridge Preparatory School (Middle School)	Honorable Mention J1974 Split group: B	iDROPPED

School Split group: — Classical Explanations for the Non-Interference of Orthogonally-Polarized Light Waves Third Place School Split group: — Newton Second Law School Split group: — Honorable Mention Split group: — Honorable Mention Split group: — Honorable Mention Split group: — Split group: — Honorable Mention Split group: — Split		nty Science Fair Catego	ry Winners	Page 19
School Split group: — Classical Explanations for the Non-Interference of Orthogonally-Polarized Light Waves Jack Sun Ribét Academy High School School School School Statt2 Split group: — Newton Second Law Statu2 Split group: — Honorable Mention Statu2 Split group: — Honorable Mention Statu2 Split group: — Statu2 Split group: — Statu3 Althony Castillo Our Lady of Refuge Catholic School Split group: A Johan Thuen Sierra Madre Middle School School School School School School School School Split group: A Honorable Mention Seeds Affect Bioluminescence? Third Place Jack School Split group: A Why are Leaves' Colors Different? Split group: A Honorable Mention Jack Secience and Technology Magnet Honorable Mention Jack Split group: A Honorable Mention Split group: A Honorable Mention Jack Split group: A Honorable Mention Split group:	• •		S1408	Transfer Dynamics in Multiheme Cytochrome
School S1412 Split group: -	Clement Decker		S1404	Orthogonally-Polarized
School (High School) S1402 Split group: — PLANT BIOLOGY (JR) J20 Anthony Castillo Our Lady of Refuge Catholic School Slerra Madre Middle School Johan Thuen Sierra Madre Middle School School School St. Timothy School Third Place J2039 Split group: A St. Timothy School First Place J2012 Split group: A Watermelon Seeds Mon-GMO Diploid Yemen Watermelon Seeds J2050 Split group: A Third Place J2039 Split group: A St. Timothy School First Place J2039 Split group: A Honorable Mention J2030 Split group: A Alesandro Mier Luther Burbank Math Science and Technology Magnet Josiah Rattay El Sereno STeM Magnet Milken Community Schools Milken Community Schools First Place Germinating a mixture of	Jack Sun		S1412	Newton Second Law
Anthony Castillo Our Lady of Refuge Catholic School Pirst Place J2012 Split group: A Second Place J2050 Split group: A Camille Paquette St. Timothy School St. Timothy School St. Timothy School Split group: A St. Timothy School Third Place J2039 Split group: A Isabella Kimbrough St. Timothy School Honorable Mention J2030 Split group: A Alesandro Mier Luther Burbank Math Science and Technology Magnet Luther Burbank Math Science Stem Magnet El Sereno STem Magnet First Place J2012 Split group: A Honorable Mention J2037 Split group: A First Place Milken Community Schools Milken Community Schools First Place Germinating a mixture of	Naomi Berhane		S1402	Motion: The Investigation
Catholic School J2012 Split group: A Split group: A Second Place Lights From The Sea: Ho Do Light/Dark Cycles Affect Bioluminescence?	PLANT BIOLOGY (JR)	J20		
School School J2050 Split group: A Camille Paquette St. Timothy School Third Place J2039 Split group: A Isabella Kimbrough St. Timothy School Honorable Mention J2030 Split group: A Alesandro Mier Luther Burbank Math Science and Technology Magnet Honorable Mention J2037 Split group: A Honorable Mention J2042 Split group: A Megan Kohanarieh Milken Community Schools First Place Germinating a mixture of	Anthony Castillo		J2012	Is Less More?: The Effect of Fertilizer Microdosing on Non-GMO Diploid Yemeni Watermelon Seeds
J2039 Split group: A Isabella Kimbrough St. Timothy School Honorable Mention J2030 Split group: A Alesandro Mier Luther Burbank Math Science and Technology Magnet Honorable Mention J2037 Split group: A Honorable Mention J2037 Split group: A Honorable Mention J2037 Split group: A Honorable Mention Salinization? Honorable Mention Salinization? First Place Germinating a mixture of	Johan Thuen		J2050	
J2030 Split group: A Alesandro Mier Luther Burbank Math Science and Technology Magnet El Sereno STeM Magnet Honorable Mention J2037 Split group: A Honorable Mention J2037 Split group: A Honorable Mention Salinization? Cut Flower Power J2042 Split group: A Megan Kohanarieh Milken Community Schools First Place Gardening Alternative Gardening Alternative Cut Flower Power Salinization?	Camille Paquette	St. Timothy School	J2039	
Science and Technology Magnet J2037 Split group: A First Place Science and Technology Magnet to Salinization? Are More Resilient to Salinization? Are More Resilient to Salinization? Cut Flower Power Split group: A First Place Germinating a mixture of	Isabella Kimbrough	St. Timothy School	J2030	
J2042 Split group: A Megan Kohanarieh Milken Community Schools First Place Germinating a mixture of	Alesandro Mier	Science and Technology	J2037	
	Josiah Rattay	El Sereno STeM Magnet	J2042	Cut Flower Power
J2031 Lolium perenne and Poa pratensis L.: Grey Water Split group: B vs. Tap Water	Megan Kohanarieh	Milken Community Schools	J2031	Lolium perenne and Poa pratensis L.: Grey Water
Raquel Kaufman New Los Angeles Charter School School Second Place J2029 Split group: B What Type of Grass Has the Largest Amount of Biomass?	Raquel Kaufman		J2029	the Largest Amount of

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Arroyo Seco Museum Science Magnet School	Third Place J2025	Water From Its Roots
	Split group: B	
Monterey Highlands	Honorable Mention J2003 Split group: B	How Environmental Changes Affect a Plant's Greenhouse Gas Production
New Los Angeles Charter School	Honorable Mention J2024 Split group: B	The Prosperous Environments of Plants
City of Knowledge Middle School	Honorable Mention J2046 Split group: B	Does Vitamin B12 affect Seed Germination?
Holy Angels School	Honorable Mention J2010 Split group: B	Effect of Allelopathy on Plants
New Horizon School Pasadena	Honorable Mention J2016 Split group: B	Solvents and Their Effects on Chlorophyll Extraction in Leaves
St. Gregory A&M Hovsepian School	Honorable Mention J2004 Split group: B	Do Different Containers Affect Plant Growth?
S15		
Palos Verdes High School	First Place S1508 Split group: –	Effects of Temperature Manipulation on Vitamin C Levels
King/Drew Magnet High School of Medicine & Science	Second Place S1506 Split group: –	The Effect of Wind Speed on Seed Dispersal
California Academy of Math & Science	Third Place S1502 Split group: –	The Effect of Different Water Temperatures on Boseila Orbigniana Red Algae Photosynthesis, Respiration, and Growth
Palos Verdes High School	Honorable Mention S1504 Split group: –	Greywater Irrigation
Huntington Park High School	Honorable Mention S1503 Split group: –	Plant Germination
Don Bosco Technical Institute	Honorable Mention S1511	Productive Solutions
	Arroyo Seco Museum Science Magnet School Monterey Highlands New Los Angeles Charter School City of Knowledge Middle School Holy Angels School New Horizon School Pasadena St. Gregory A&M Hovsepian School S15 Palos Verdes High School King/Drew Magnet High School of Medicine & Science California Academy of Math & Science Palos Verdes High School Huntington Park High School Don Bosco Technical	Arroyo Seco Museum Science Magnet School Science Magnet School Monterey Highlands Split group: B Honorable Mention J2024 Split group: B Honorable Mention J2016 Split group: B Honorable Mention J2010 Split group: B Honorable Mention J2016 Split group: B St. Gregory A&M Hovsepian School Pasadena St. Gregory A&M Hovsepian School Palos Verdes High School King/Drew Magnet High School of Medicine & Science California Academy of Math & Science Palos Verdes High School First Place S1508 Split group: — Second Place S1506 Split group: — Third Place S1502 Split group: — Palos Verdes High School Honorable Mention S1504 Split group: — Huntington Park High School Honorable Mention S1503 Split group: — Honorable Mention S1503 Split group: — Honorable Mention S1503 Split group: —

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PLANT PHYSIOLOGY (JR) J21 Portola Middle School & HGM	First Place J2112 Split group: –	Plant Electrophysiology - How Does the Stimulation of Trigger Hairs Affect the Generation of Action Potentials in a B52 Venus Flytrap?
Safiyah Lakhany	Institute of Knowledge	Second Place J2109 Split group: –	Holy Spinach
Muhammad Abd-Allah	New Dimensions Middle School	Third Place J2101 Split group: –	The Impact of Vitamins in Negating Hydrogen Peroxide Oxidant Effects on Seed Germination
Eric Xue	Monterey Highlands	Honorable Mention J2119 Split group: –	CO2 Absorbtion Through Different Species of Algae
Talia Toutounjian	AGBU Manoogian- Demirdjian School (Junior Division)	Honorable Mention J2117 Split group: –	Effects of Biosolid Combinations on Seedling Germination and Growth
PRODUCT SCIENCE (J	R) J22		
Annaliese Rupp	Holy Trinity Catholic School	First Place J2233 Split group: –	"Mom, Do I Have to Rinse/Scrub The Plates Before I Put Them in The Dishwasher?"
William Labrador	Chandler School	Second Place J2218 Split group: –	How Quickly do Tortilla Chips Become Stale?
Nicholas Hammons	Parras Middle School	Third Place J2213 Split group: –	Kitchen Synthesized Magnetite Nanocrystals
Aileen Keane	Holy Trinity Catholic School	Honorable Mention J2215 Split group: –	The Stay of the Spray
Rahma Nur	Al-Huda School	Honorable Mention J2228 Split group: –	Decaffeinated Tea
Hamna Khan	Al-Huda School	Honorable Mention J2216 Split group: –	Natural vs. Synthetic Fertilizer on the Germination of Corn
Dylan Drake	Mayfield Junior School of the Holy Child Jesus	Honorable Mention J2206 Split group: –	Batter Up

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Lily Fotovat	St. Martin of Tours	Honorable Mention J2208 Split group: –	Wash It Away
Samantha Gonzalez Madison Laughlin	Pomona Unified School District Junior Division	Honorable Mention J2211 Split group: –	What's the Scoop?
Brendan Pernecky	Mayfield Junior School of the Holy Child Jesus	Honorable Mention J2230 Split group: –	Which Football Helmet Best Prevents a Concussion?