

**2015 South Sound Regional Science Fair  
High School Awards**

**Honorable Mention**

<b>Project Category</b>	<b>Project Title</b>	<b>Name</b>	<b>School</b>	<b>School District</b>	<b>Grade</b>
Animal Sciences	The Effect of Capsaicin as a Repellent on Slugs	Tiffany Nguyen	Wilson High School	Tacoma	9th
	The Effect of Cat Feces In Ground Water on Barnacle Feeding Rate	Mads Sorenson	Wilson High School	Tacoma	9th
Behavioral & Social Sciences	Paper Color and Tests	Alicia Even	Capital High School	Olympia	9th
	Sleep and Your Short Term Memory	Zoe Nelson	Harrison Prep	Clover Park	11th
Biomedical and Health Sciences	The Effect of Bacteria on Mascara and the Human Body	Hope Springer	Wilson High School	Tacoma	9th
Chemistry	Expanding gases	Kyanna Byrd	Clover Park High School	Clover Park	11th
		Alexander Young	Clover Park High School	Clover Park	11th
Computational Biology	The Simulated Effects Of Antibiotic And Bacteriophage Cycling On Antibiotic Resistance In Bacteria	Oscar Christoph	Wilson High School	Tacoma	9th
Earth & Environmental Science	Air Particles	Josh White	Wilson High School	Tacoma	9th
	Polluted rain water vs. mortality/fecundity rate	Trenton Julich	Wilson High School	Tacoma	9th
	The effect of Ibuprofen on Ghost Shrimp	Morgan Greene	Wilson High School	Tacoma	9th
Energy: Physical	Comparative Analysis of Saphonian Wind Turbine	Payton Rothlin	W.F. West High School	Chehalis	12th
Engineering Mechanics	Comparison of Stopping Distances between Foot-Activated Rear and Handle Activated Rear Disc Brakes	Elizabeth Di Loreto	Wilson High School	Tacoma	9th
Environmental Engineering	The Effect of Rain Gardens on Storm Water runoff	Cameron McGregor	Wilson High School	Tacoma	9th
Microbiology	The Effect of a Home Remedy of the Bacteria on Phones	Eve Langlois	Wilson High School	Tacoma	9th
	The Number of Bacteria Colonies on a Microphone	Lindsey Hansen	Wilson High School	Tacoma	9th
Physics & Astronomy	Electrostatic Energy Harvesting	Eric Braun	W.F. West High School	Chehalis	12th
	The Secrets of Long Jump	Justin Wendling	W.F. West High School	Chehalis	12th
Plant Sciences	The Effect of Spent Coffee Grounds on Green Bean Biomass	Abigail Cook	Wilson High School	Tacoma	9th
Systems Software	Car Buddy	Deepak Ganesh	Olympia High School	Olympia	11th

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**Third Place**

<b>Project Category</b>	<b>Project Title</b>	<b>Name</b>	<b>School</b>	<b>School District</b>	<b>Grade</b>
Animal Sciences	Effect of snail replent on the outcome of the gender of the offspring	Parker Portalski	Wilson High School	Tacoma	9th
	Fertilizer Effect on Worms	Kenny Thai	Wilson High School	Tacoma	9th
Behavioral & Social Sciences	Getting Your Hands Dirty: A Study of Personal Hygiene and Germ Transmission	Cecilia Black	Annie Wright Schools	Inde- pendent	11th
		Soojin An	Annie Wright Schools	Inde- pendent	11th
Biomedical and Health Sciences	The Effects of Sanitizers on Bacterial Removal from a Cutting Board	Claire Tollan	Wilson High School	Tacoma	9th
Earth & Environmental Science	An Analysis of Tacoma Area Lakes	Tiffany Shields	Wilson High School	Tacoma	9th
	The Effect of Lead Concentration on the Remediation Rate of Kale	Jeremy Sacks	Wilson High School	Tacoma	9th
Microbiology	Green Goo We Slim	Yana Myslyk	Wilson High School	Tacoma	9th
	Petite Allegro, Grand Bacteria	Tatiana Cueva	Wilson High School	Tacoma	9th
	The Effect of Quaternary Ammonium Compounds on Bacteria on Football Gloves	Caleb Howard	Wilson High School	Tacoma	9th
Plant Sciences	The Salinity Effect on Plant Growth of Grass	Tran Nguyen	Wilson High School	Tacoma	9th

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**Second Place**

<b>Project Category</b>	<b>Project Title</b>	<b>Name</b>	<b>School</b>	<b>School District</b>	<b>Grade</b>
Animal Sciences	Bacteria's effect on zebrafish	Rachel McAmis	Wilson High School	Tacoma	9th
Behavioral & Social Sciences	Voice Matters: How Important Is Intonation in Communicating Emotions	Jessie Ju	Annie Wright Schools	Independent	10th
		Cindy Liang	Annie Wright Schools	Independent	10th
Biomedical and Health Sciences	Determining in vitro the Effectiveness of Combination Small-Molecular Target Therapy in CRC	Daniel Burke	Lakes High School	Clover Park	11th
Chemistry	Electrolyte Concentration	Camden Roberts	Life Christian Academy	Private	10th
Earth & Environmental Science	Polycyclic Aromatic Hydrocarbon Uptake into Blue Mussel ( <i>Mytilus Edulis</i> ) Tissue From Derelict Pili	Julianne Werner	Bellarmine Preparatory School	Private	12th
		Margaret Gardner	Bellarmine Preparatory School	Private	12th
	The Affect of the Presence of Plants on the Amount of Insecticide in Water Environments	Carolyn Biddle	Wilson High School	Tacoma	9th
Environmental Engineering	Identification of Replacement Materials for Creosote Pilings at Maury Island Barges	Miranda Ross	Bellarmine Preparatory School	Private	12th
		Laura Staeheli	Bellarmine Preparatory School	Private	12th
Microbiology	Sulfide oxidizing bacterial growth on crabs and rocks in a marine anthropogenic sulfide seep	Halley Egnew	Bellarmine Preparatory School	Tacoma	12th
Plant Sciences	Affect of added fertilizer to young apple trees grafted to EMLA 26 rootstock	Kathleen (Lena) Flanagan	Wilson High School	Tacoma	9th
Systems Software	Developing a Lung Cancer Pre-Screening Model to Lower Lung Cancer Mortality Rates	Aditi Kumar	Timberline High School	North Thurston	9th

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**First Place**

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Animal Sciences	Cricket Repellent: Sound frequency, an alternative to pesticides	Michael Benitez	Wilson High School	Tacoma	9th
Behavioral & Social Sciences	The Effects of Viewpoint on Cueing on Object Recognition Speed	Kiana Lindsay	Bellarmine Preparatory School	Private	12th
Biochemistry	Designing a non-invasive method for measuring glycemic concentrations using surface conductivity	Vineethsubbu Somasundaram	Olympia High School	Olympia	9th
Biomedical and Health Sciences	Antibacterial Activity of Herbal Extracts on Ampicillin Resistant Escherichia coli	Liam Stevens-Holeman	Bonney Lake High School	Sumner	11th
		Sarah Strickler	Bonney Lake High School	Sumner	11th
		Christopher Clymore	Bonney Lake High School	Sumner	12th
Cellular & Molecular Biology	Global Protein Analysis of a Preterm Murine Gastrointestinal Tract	Vivek Ramachandran	Bellarmine Preparatory School	Private	12th
Chemistry	Is Copper an Efficient Catalyst for the Production of Hydrogen Gas?	Hyunjoo Ji	Annie Wright Schools	Independent School	9th
Computational Biology	Bioinformatics in Alzheimer's Disease Research:Case Study of a Key Pharmacological target In Silico	Kartik Anand Iyer	Interlake High School	Bellevue	10th
		Veenadhari Kollipara	International Community School	Private	9th
		Nitya Krishna Kumar	Olympia High School	Olympia	10th
Earth & Environmental Science	Takeout CO2: Measuring Emissions from Incinerating Takeout Containers	Annika Cederstrand	Annie Wright Schools	Independent	10th
		Elle Hansen	Annie Wright Schools	Independent	10th
Embedded Systems	NapX-Safety Alert Mobile Application To Detect Drowsy Drivers	Mehar Nallamalli	Capital High School	Olympia	11th
Engineering Mechanics	Optimal Speed of Turntable Motor in Microwave	Jeonghyeon Kim	W.F.West High School	Chehalis	12th
Environmental Engineering	A Novel Biotechnological approach to Isolate and Identify bacteria in soil that degrades polyethylene	Rakshith Mullukatte	Olympia High School	Olympia	9th

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**First Place (continued)**

2015 South Sound Regional Science Fair High School Awards					
First Place (continued)					
Mathematics	What kind of password is strongest?	John Campbell	Lakes High School	Clover Park	9th
Microbiology	Comparative analysis of Bacteriophages, natural antibacterials and pharmaceutical agents	Anjali Vasisht	Olympia High School	Olympia	10th
Physics & Astronomy	The Physics of Baseball	JT Yarter	W.F. West High School	Chehalis	12th
Plant Sciences	Effect of Polarized Light on Plant Growth	Aurora Hake	Annie Wright Schools	Independent School	10th
Robotics, Intelligent Machines	MyGlove: Assisting Hand Movements, Grip and Tremor Detection	Surabhi Mundada	Olympia High School	Olympia	10th