

2016 South Sound Regional Science Fair

High School Awards

Honorable Mention

Project Category	Project Title	Name	School	School District	GR
Animal Sciences	Effect of Cigarettes on Daphnia Heart Rate	Yasmene Hammoud	Wilson High	Tacoma	9
	Monosodium Glutamate affecting the heart beat of Daphnia	Carmen Parra	Wilson High	Tacoma	9
Biomedical and Health Sciences	What is the Effect of Zingiber officinale on the Zone of Inhibition of Staphylococcus epidermis?	Kaija Wilks	Wilson High	Tacoma	9
Earth & Environmental Science	Filtering Out Micro Beads	Chloe Barton	Wilson High	Tacoma	9
	How does temperature effect the feeding rate of barnacles	Violette Lafferty	Wilson High	Tacoma	9
	The oil in your kitchen, now used in your car	Annika Cederstrand	Annie Wright		11
		Abbey Turner	Annie Wright		11
Engineering Mechanics	Using Paper to Test the Strength of Different Shaped Building Elements	Poplar Yang	Annie Wright		10
		Zoe Zheng	Annie Wright		10
Environmental Engineering	Effect of an Earten Filter on biomass of plants	Thomas Jacobs	Wilson High	Tacoma	9
Materials Science	Evaporation - Is It Fast or Slow	Elissa Essman	Home School		10
	Is recycled paper weaker than virgin paper?	Pin-Yu Lien	Annie Wright		10
Microbiology	horse fecal matter vs ryeberries on mycelium growth over time on blue oyster mushrooms	Tristan Sampson	Wilson High	Tacoma	10
	The Effect of Initial Glo Germ Placement on Resulting Glo Germ Spread	Malachi White	Wilson High	Tacoma	9
Plant Sciences	One Greek Disaster	Hanna Bennett	Wilson High	Tacoma	9
	The effect of sweet potato allelochemicals on biomass of opposing plant	LaRae Ellison	Wilson High	Tacoma	9

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Honorable Mention (Continued)

Plant Sciences (Continued)	The effect of different sources of greywater on the biomass of crop	Nathan Sachs	Wilson High	Tacoma	9
	The Effect of Rhizobia Bacteria on Seed Germination Rates	Bryan Vo	Wilson High	Tacoma	9
	The Not So Dynamic Duo: The effect of zinc on moss growth	Hannah Griffin	Wilson High	Tacoma	9

Third Place

Project Category	Project Title	Name	School	School District	GR
Animal Sciences	An Evaluation of Factors That May Influence Olympia Oyster (<i>Ostrea Lurida</i>) Reproduction and Growth	Emily Thomsen	Wilson High	Tacoma	11
Behavioral & Social Sciences	colorization	Katie Looper	Harrison Preparatoty	Clover Park	9
Earth & Environmental Science	How much Matters?	Hina Ramzan	Wilson High	Tacoma	9
Microbiology	Affect of Breast Milk on Bacteria Growth	Arianna Jones	Wilson High	Tacoma	9
	The Effect of Introducing Peanut Oil to <i>Staphylococcus epidermidis</i>	Alisa Glabe	Wilson High	Tacoma	9

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Second Place

Project Category	Project Title	Name	School	School District	GR
Animal Sciences	How does diet affect equine hyperactivity?	Cecilia Black	Annie Wright		12
Behavioral & Social Sciences	Music and Short Term Memory	Jessie Ju	Annie Wright		11
Earth & Environmental Science	Living on Silver: The Effect of adding Nano silver on the lifespan of Daphnia	Jodi Van	Wilson High	Tacoma	9
	The Effect of Antifouling Paint on the Heart Rate of Daphnia	Melina Nguyen	Wilson High	Tacoma	9
Energy: Chemical	Optimization of Fuel Cell Structure for the Commercial Reduction of Carbon Dioxide in Water to Produce Ethanol	Aditi Kumar	Timberline High School	North Thurston	10
Environmental Engineering	Water Filtration	Veronika Pon	Wilson High	Tacoma	9
Materials Science	A Filtration Compilation: The Effect of the Filter on the Amount of Pollutants Remaining in the Water Will be Seen in the Decreased Particulate Mass and Turbidity	Noah Jensen	Wilson High	Tacoma	9
Microbiology	Effect of Smoke on Bacteria	Tucker Buxton	Wilson High	Tacoma	9
Plant Sciences	The Effect of Foliar-Applied and Soil-Applied Calcium Nitrate on Leaching	Victoria Le	Wilson High	Tacoma	9

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First Place

Project Category	Project Title	Name	School	School District	GR
Animal Sciences	Bug Off: Analyzing Attractive and Repellent Behaviors of Culex Mosquitos	Hyunjoo Ji	Annie Wright		10
		Sasha Chang	Annie Wright		10
Behavioral & Social Sciences	Does the Knowledge of a Time Limit Affect Performance of a Simple Task?	Daphne Land	Homeschool		9
Biomedical and Health Sciences	Low Cost Alternatives to Diagnose Disease Specifically Designed for Developing Countries Using Fast Lithography Activation of Sheets	Vineethsubbu Somasundaram	Olympia High	Olympia	10
		Rakshith Mullukatte	Olympia High	Olympia	10
Biomedical Engineering	MyHealth: Early Detection, Monitoring, and Control of Parkinsonian Tremor	Surabhi Mundada	Olympia High	Olympia	11
Cellular & Molecular Biology	Drugs and Neural Spike Rates	Zoe Nelson	Harrison Preparatoty	Clover Park	12
Earth & Environmental Science	Surveying biodiversity on Creosote pilings in the Puget Sound through a comprehensive mathematical analysis using DEROS: A diving and exploration remote operated submersible	David Guertin	Tacoma Science and Math Institute	Tacoma	12
		Karun Paul	Tacoma Science and Math Institute	Tacoma	12
Embedded Systems	Alzheimer's Aid: A computer based assistance application for Alzheimer's patients	Sowmya Duddu	Olympia High	Olympia	9
Energy: Chemical	Running on Algae: The Optimum Growth Conditions of Chlorella ellipsoidea for the Production of Biofuel	Kelsey Homan	Wilson High	Tacoma	9

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First Place (Continued)

Engineering Mechanics	The analysis of airfoil technology: The impact of camber on the lift to drag relationship of airfoils at different angles of attack	Raghavendra Bharadwaj	Capital High	Olympia	9
Environmental Engineering	Modeling the Effects of Rain garden Implementation on the Efficiency of Nitrate Filtration in an Urban Landscape	Sarah Dawson	Wilson High	Tacoma	9
Materials Science	The Science of Soundproofing	Aurora Hake	Annie Wright		11
		Cindy Liang	Annie Wright		11
Microbiology	A Novel Approach to the Reduction of Antibiotic Resistant Escherichia coli Present in Livestock Waste Through Use of Plant Extracts	Sarah Strickler	Bonney Lake High	Sumner	12
Physics & Astronomy	Cerumen on Earbuds	Brittain Rhodes	Wilson High	Tacoma	9
Plant Sciences	Are Your Vegetables Poisonous? Testing the Effect of Arsenic Levels in Soil on Plants	Carlie Zinder	Wilson High	Tacoma	9
Robotics & Intelligent Machines	Efficiently Diagnosing Heart Arrhythmia using Machine Learning Algorithms	Abhinav Gundrala	Olympia High	Olympia	9
Translational Medical Science	TOWARDS NEXT GENERATION CANCER TREATMENT MODALITY: In-vivo dosimetry studies of Boron Neutron Capture Therapy using protist models	Nitya Krishna Kumar	Olympia High	Olympia	11
		Veenadhari Kollipara	Interlake High	Bellevue	10