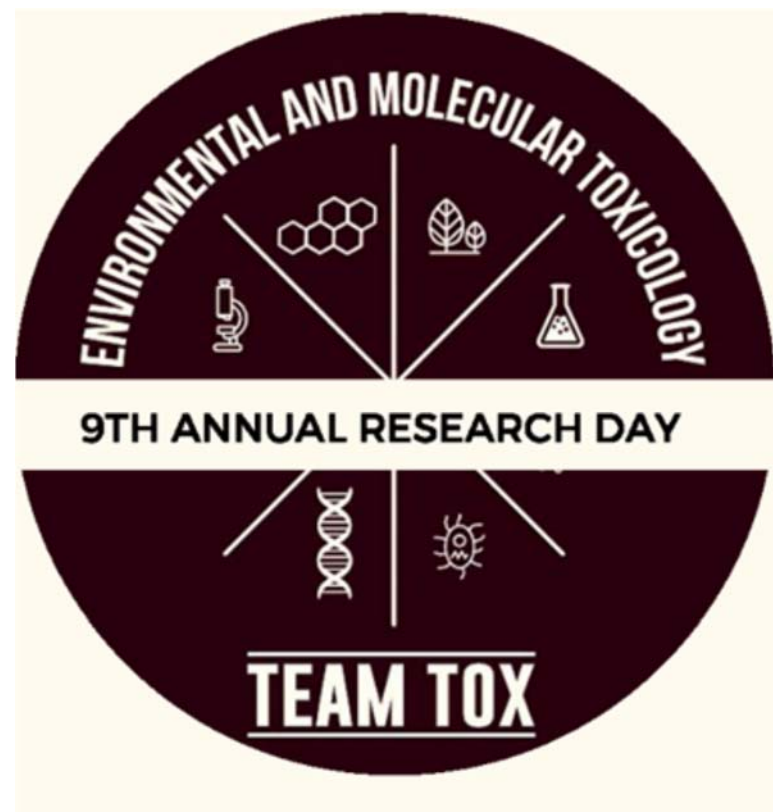


9th Annual Environmental & Molecular Toxicology Research Day

2:55 – 3:15pm	Giustina Gallery	Break
3:15 - 3:45 pm	Faculty Talk Construction and Engineering Hall	Kaci Buhl Pesticide Safety Education Program, OSU • “Curate and Communicate in Context”
3:45 - 4:15pm	Faculty Talk Construction and Engineering Hall	Jeff Nason Chemical, Biological, and Environmental Engineering, OSU • “Elucidating the complex interactions between engineer- ing nanoparticles, (bio)colloids, and naturally occurring macromolecules”
4:15 - 4:30pm	Giustina Gallery	Break
4:30 - 5:00pm	Faculty Talk Construction and Engineering Hall	Aaron Wright Biological Systems Science, PNNL • “Activity-based profiling of xenometabolizing enzyme families and susceptibilities associated with exposures”
5:00 - 5:30pm	Construction and Engineering Hall	EMT Awards presentation
5:30 - 6:30pm	Giustina Gallery	EMT Reception

Our thanks to Holly Hortsch for her help in
photographing this event

Thank you for supporting EMT’s
Research Day!



January 19, 2018
LaSells Stewart Center
Oregon State University

9th Annual EMT Research Day Program

8:00 - 8:45am	Giustina Gallery	Check-in
	Giustina Gallery	Poster Set-up
8:45 - 9:00am	Welcome & Introductions Construction and Engineering Hall	(1) Dr. Craig Marcus , EMT Department Head (2) Dr. Dan Arp , Dean, College of Agricultural Sciences (3) Dr. Cynthia Sagers , Vice President for Research (4) Trainees of EMT
9:00 - 10:00am	Keynote Lecture Construction and Engineering Hall	Dr. George P. Daston Proctor & Gamble, Cincinnati, Ohio <i>"Integrating biotechnology and big data to predict toxicity"</i>
		
10:00 - 10:15am	Giustina Gallery	Break
10:15 - 10:45am	Lightning Talks Construction and Engineering Hall	<ul style="list-style-type: none"> • Amber Kramer—The presence of oxidized polycyclic aromatic hydrocarbons (PAHs) in organic aerosol particles • Courtney Roper—Beyond Inhalation: Addressing Research Gaps in Fine Particulate Matter Exposures • Holly Dixon—Comparing chemical exposures across diverse communities using silicone wristbands • Raymmah Garcia—Homologous series to detect Hydrocarbon Surfactants in AFFFs and AFFF Impacted Groundwater • Carolyn Poutasse—Feline Hyperthyroidism and Household Chemical Exposures • Christine Ghetu—Detecting and Monitoring Contaminants in the Environment using Passive Samplers • Justin Rewerts—Volatile Polyfluorinated Alkyl Substances in Papers and Textiles: New Methods and Discovery • Phil Janney—A Systems Approach for Assessing Agrochemical Fate and Exposure at the Watershed Scale • Serhan Mermer—Residue of insecticides and their metabolites in food commodities • Elaine Jennings—Designing a fluorine free fire fighting foam • Mary Leonard—Analysis of Hydroxylated Polycyclic Aromatic Hydrocarbons Using High-Resolution Mass Spectrometry Coupled to High-Performance Liquid Chromatography
10:45 - 11:20am		
11:20 - 11:35am	Giustina Gallery	Break

11:35 - 12:05pm	Lightning Talks Construction and Engineering Hall	<ul style="list-style-type: none"> • Bach Duc Nguyen—Mitotic recombination as a potential cause of p53 loss of heterogeneity • Matthew Slattery—Encapsulated Pesticides: Analytical and Toxicological Nuances • Lindsay Denluck—Reactive oxygen species generation is likely a driver of copper-based nanomaterial toxicity • Hyo Sang Jang—Identification of a raloxifene analog that promotes AhR-mediated apoptosis in cancer cells • Michael Garland—Identifying miRNA targets in the regenerating zebrafish fin using parallel RNA and miRNA sequencing • Yvonne Chang—Evaluating PAH Toxicity in the 3D Human Bronchial Epithelium • Daniel J. Elson—The cell-cycle inhibitor p27 as a novel target of AhR, and the therapeutic opportunity in triple-negative breast cancer • Prarthana Shankar—Classification of PAHs based on their mechanisms of toxicity • Martin Pearce—Targeting therapy resistant cancer through Bcl-2 functional conversion • John Gamble—Quantification of Cancer Progression and Invasion Using Zebrafish Xenografts
12:05 - 12:35pm		
12:35 - 1:45pm	Giustina Gallery	Lunch (Undergraduate Posters, Professional Photos for Trainees)
1:45 - 2:15pm	Lightning Talks Construction and Engineering Hall	<ul style="list-style-type: none"> • Veronica Puig Sanvicens—Activation of AhR in breast cancer 3D tumor-like spheroids • Stephanie Krail—Utilizing environmental DNA to analyze the presence, absence, and abundance of native macroinvertebrates as an indication of stream health • Claudia Santillan—Differential regulation of lncRNA by PAHs in 3D human bronchial epithelial cells • Brianna Rivera—Using Personal Passive Sampling Devices and Zebrafish to Identify Environmental Contaminants from Everyday Exposure • Jeremy Larson—Advancing greener nanoscience: defining bioactivity of diverse nanomaterials using zebrafish
2:15 - 2:55pm	SRP Talks Construction and Engineering Hall	<ul style="list-style-type: none"> • Laura Magana—Characterizing Developmental Toxicity of Formaldehyde Using Zebrafish • Erica Dashner—Arsenic and uranium interference with zinc-dependent functions of immunomodulatory protein targets • Jorge Gonzalez-Estrella—Mechanisms of uranium and arsenic sorption in limestone • Trishna Chandarana—Toxicity Reduction via Bioremediation of Triazine Herbicides and Polycyclic Aromatic Hydrocarbons at Superfund Sites • Hao Wang—Genetic and conditional stimulations of adult neurogenesis rescues cadmium-induced impairments of hippocampus-dependent memory and olfactory memory in mice • Joseph Dempsey—Gut-Liver Axis during Development in Mice • Mallory Little—Regulation of the gut microbiome by xenobiotic-sensing nuclear receptors