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**Events** 

First Author: Armin Rashidi | Senior Author: Stephanie Lee (pictured)

Jobs

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#### Publications of the Week

Analysis of Antibiotic Exposure and Development of Acute Graft-vs-Host Disease Following Allogeneic Hematopoietic Cell Transplantation

JAMA Network Open | UW and Fred Hutch

Are antibiotics and antibiotic exposure timeframes associated with acute graft-vshost disease (aGVHD) after allogeneic hematopoietic cell transplantation (allo-HCT)? In this cohort study including 2023 patients and using three orthogonal approaches applied to antibiotic use between seven days before and 30 days after allo-HCT procedures, several antibiotics and exposure timeframes were found to be associated with aGVHD disease rates. Abstract

#### Metrologically Traceable Quantification of Three Apolipoprotein E Isoforms in Cerebrospinal Fluid

First Author: Huu-Hien Huynh | Senior Author: Andrew Hoofnagle (pictured) Clinical Chemistry | UW



Researchers aimed to develop, validate, and standardize a new measurement procedure using liquid chromatography-mass spectrometry. Purified recombinant apolipoprotein E protein standards were thoroughly characterized and used to assign the concentration of a matrix-matched calibration material that contained each apoE isoform, which ensured the metrological traceability of results. Abstract

#### The Unfolded Protein Response Components IRE1α and XBP1 Promote **Human Coronavirus Infection**

First Author: Jessica Oda | Senior Author: Susan Fink (pictured) mBio | UW



Investigators found that the human coronaviruses HCoV-OC43 and SARS-CoV-2 both robustly activate the IRE1α-XBP1 branch of the unfolded protein response in cultured cells. Using IRE1 $\alpha$  nuclease inhibitors and genetic knockdown of IRE1 $\alpha$ and XBP1, they found that these host factors are required for optimal replication of both viruses. Abstract

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### Awards

#### Eric Chudler's BrainWorks Receives a Northwest 2023 Emmy® Award UW Department of Bioengineering



at the UW on winning a 2023 Northwest Regional Emmy Award for the program, "BrainWorks – Vision and the Brain." BrainWorks takes viewers on a journey inside the human brain and aims to educate children about the wonders of neuroscience. The program won an Emmy in 2017 for "BrainWorks: Exercise and the Brain" in the Science and Health – Program/Special category. Read More

Congratulations to UW Bioengineering's Dr. Eric Chudler (pictured), and his team

#### **UW** Department of Bioengineering

**UW Bioengineering Awards 2023** 



The UW Department of Bioengineering recognizes the commendable contributions of notable faculty, staff, and students to the department and the broader university community over the past year. This includes undergraduate student Alan Levinson (pictured, left), studying cardiovascular tissue engineering research, and graduate student Karam Khateeb (pictured right), working across multiple disciplines. **Read More** 

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## Local News

## Why 2,400 University of Washington Researchers Are Now on Strike



reach agreements on their respective contracts after months of negotiations. The strike will "effectively grind research to a halt," organizers said, given that striking postdoctoral researchers and research scientists and engineers are responsible for much of the work that grants UW its distinction as a top research institution. **Read More** 

About 2,400 University of Washington researchers went on strike after failing to

#### Allen Institute Using technology originally designed for defect detection in electronics

A New, Custom-Built Microscope Is Capturing Stunning Views of the Brain

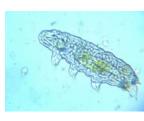


manufacturing, the newly built "ExA-SPIM" microscope is showing scientists the mouse brain as it's never been seen before. ExA-SPIM, the brainchild of scientist Dr. Adam Glaser (pictured), is a one-of-a-kind microscope built for capturing images of the entire mouse brain at incredible resolution. Read More

#### — Trehalose The Access to Advanced Health Institute

Tardigrades Provide Key Ingredient to Remove the Cold Chain for Biologics

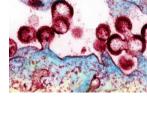
Vaccines are difficult to access in some areas because of the complex, expensive



cold chain required to store and distribute the life-saving health solutions. Researchers are studying novel formulations of vaccines, to improve the stability of vaccine drug products to reduce the cold chain requirements, ensuring equitable access to vaccines. The sugar called trehalose, found in tardigrades, is a key incredient in stabalizing vaccines. Read More

#### **Generation HIV Therapeutic Options** A-Alpha Bio via Cision

A-Alpha Bio Announces Collaboration with Gilead to Advance Next-



engineers protein-protein interactions, has announced a collaboration with Gilead Sciences that aims to advance the design of HIV therapies. A-Alpha Bio will leverage its platforms to characterize binding affinities between potential therapeutic proteins and various viral protein variants that Gilead may incorporate into potential future long-acting combination HIV therapy options. Read More

A-Alpha Bio, a synthetic biology and machine learning company that measures and

#### Lee Hood & Nathan Price On the Future of Medicine Armchair Expert



authors of "The Age of Scientific Wellness: Why the Future of Medicine Is Personalized, Predictive, Data-Rich, and in Your Hands". Lee and Nathan join the Armchair Expert to discuss how artificial intelligence is changing the medical industry, how infectious disease has impacted our world, and the effectiveness of prescriptions. Read More

World-renowned biologist Dr. Lee Hood (pictured) and Dr. Nathan Price are the

#### Institute for Systems Biology The Hadlock lab is an interdisciplinary team that aims to accelerate translational research by integrating clinical data into systems biology at scale. Dr. Jennifer

Dr. Jennifer Hadlock Promoted to Associate Professor



**CNBC** 

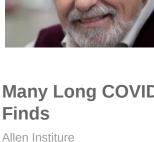
Hadlock's (pictured) goal is to improve the lives of people with immune-mediated inflammatory diseases such as rheumatoid arthritis, inflammatory bowel disease, multiple sclerosis, and others. Read More Allen Institute Teams Up with AWS to Build First-Ever Map of the Brain

#### Just as the periodic table is foundational to chemistry and the Human Genome Project revolutionized modern genetics, researchers at the Allen Institute for Brain Science have teamed up with Amazon Web Services (AWS) to create what could



become a "transformative" new resource for the field of neuroscience. AWS announced its technology will support the Allen Institute as it builds a map of the human brain, called the Brain Knowledge Platform. Read More PNRI Mourns the Loss of David J. Galas, PhD Pacific Northwst Research Institute (PNRI)

#### Pacific Northwest Research Institute mourns the loss of Dr. David J. Galas (pictured), who passed away on May 27, 2023, after a hard-fought battle with cancer. Dr. Galas was a world-renowned expert in molecular biology and genetics



whose long and distinguished career led to contributions in the fields of physics, mathematics, and biology. Read More Many Long COVID Patients Suffer from Persistent Inflammation, Study

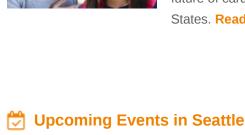
#### Looking at proteins circulating in the blood, scientists found a set of molecules associated with inflammation that were present only in a subset of patients with long COVID and were not seen in those who recovered from their disease. The



researchers, including Dr. Juliana McElrath (pictured), published an article describing their findings in the journal Nature Communications. Read More BioE Graduates Gain Hands-On Experience in Cardiovascular Science and

Five UW graduate students were selected for the 2022/2023 Bioengineering

#### Cardiovascular Training Program. The five trainees—Savannah Bifulco (pictured, left), Ariana Frey, Kerry Kao, Casey Kiyohara (right), and Hao Zhou - will participate in a one or two-year program to enrich their research and support the



future of cardiovascular-related research and technology development in the United States. Read More View All Articles 🔵 | Submit an Article 😜

2023 Neuropixels and OpenScope Workshop

#### June 21 - 23 8:00 am Allen Institute June 25 **Defeat Multiple Myeloma 5K**

8:30 am

June 28 **Summer Nights Happy Hour** 5:30 pm Pacific Science Center

Alliance of Angels Panel: Trends and Capital Raising for Life July 7 **Science Startups** 12 pm The Pacific Northwest Mission Acceleration Center

Magnuson Park

July 13 2023 Allen Institute Modeling Software Workshop 8:30 am Allen Institute View All Events 🔵 | Submit an Event 😜

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# Zymeworks

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Science Jobs in Seattle

**Senior Staff Scientist** Fred Hutchinson Cancer Center

Senior Scientist, Analytical Development

Postdoctoral Scholar, Neurology University of Washington

**Associate Director, Cell Therapy** Bristol Myers Squibb

Senior Research Associate, Vector Biology

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