

Publications of the Week

The Alzheimer's Gene SORL1 Is a Regulator of Endosomal Traffic and Recycling in Human Neurons

First Authors: Swati Mishra (pictured, left) and Allison Knupp (center) | Senior Author: Jessica Young (right) | Cellular and Molecular Life Sciences | Institute for Stem Cell and Regenerative Medicine and UW



Loss of the Sortilin-related receptor 1 (SORL1) gene seems to act as a causal event for Alzheimer's disease (AD). The authors hypothesized that SORL1 plays a broader role in neuronal endosomal recycling and used human induced pluripotent stem cell-derived neurons to test this hypothesis. They examined endosomal recycling of three transmembrane proteins linked to AD pathophysiology. [Profile](#) | [Abstract](#)

Mechanical Forces Govern Interactions of Host Cells with Intracellular Bacterial Pathogens

First Author: Effie Bastounis | Senior Author: Julie Theriot (pictured) | Host-Microbial Interactions | Howard Hughes Medical Institute and UW



While the molecular and biochemical basis of host-pathogen interactions has been extensively explored, relatively less is known about mechanical signals and responses in the context of those interactions. The authors review recent findings on how mechanical forces generated by host cells can promote or obstruct the dissemination of intracellular bacterial pathogens. [Abstract](#)

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Awards

Dr. David M. Hockenbery, Recipient of the 2022 Dr. Ali Al-Johani Award

UW Division of Gastroenterology



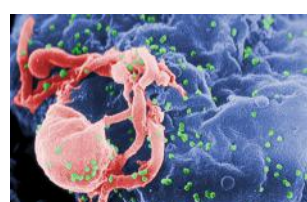
Dr. David M. Hockenbery (pictured), a clinical researcher, Professor, and Head of the Gastroenterology Section of Fred Hutch and the Seattle Cancer Care Alliance, was named the recipient of the 2022 Dr. Ali Al-Johani Award. Dr. Hockenbery's research focuses on cell-death processes that are defective in many cancer cells, allowing them to grow unchecked. His team explores how cell metabolism is used to control programmed cell death in both normal and cancer cells. [Read More](#)

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Local News

Testing Cord Blood Transplants as a Cure for Leukemia — and HIV

Fred Hutch



When the news came out last month that a New York woman was likely cured of HIV/AIDS by the same cord blood transplant she had received to save her from leukemia, Dr. Filippo Milano's telephone at Fred Hutch began to ring. As Director of the Hutch's Cord Blood Transplant Program, he also had been working for years to launch a clinical trial of a similar approach that might cure patients of both leukemia and HIV. [Read More](#)

'Roadmap' Tracks Trajectories of Embryo Development

UW Medicine



Scientists in Dr. Jay Shendure's (pictured) lab have mapped out the key molecular changes that orchestrate how embryonic mouse cells differentiate into the diverse cell types that will ultimately form all the different tissues and organs of the adult animal. This "roadmap" of mouse embryogenesis will help researchers understand the molecular programs that control how different specialized cell types emerge from less differentiated cells as an embryo grows and develops. [Read More](#)

Seagen and Sanofi Announce Collaboration to Develop and Commercialize Multiple Novel Antibody-Drug Conjugates

Seagen



Seagen and Sanofi announced an exclusive collaboration agreement to design, develop, and commercialize antibody-drug conjugates (ADCs) for up to three cancer targets. The collaboration will utilize Sanofi's proprietary monoclonal antibody technology and Seagen's proprietary ADC technology. ADCs are antibodies engineered to deliver potent anti-cancer drugs to tumor cells expressing a specific protein and Sanofi currently has one ADC in development. [Read More](#)

Q&A: UW STEM Leader on Her Presidential Award and Supporting Women Faculty

GeekWire



At UW, the number of women faculty in STEM fields has outpaced growth nationally in the last 20 years. Dr. Joyce Yen (pictured), Director of the UW ADVANCE Center for Institutional Change, says her organization's mission to help support faculty is behind some of that progress. Others agree. Last month Dr. Yen was recognized as one of 12 individuals to receive the \$10,000 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring. [Read More](#)

Novo Nordisk Foundation, Open Philanthropy, and Bill & Melinda Gates Foundation Launch Initiative to Support New Antiviral Medicines for Future Pandemics

Novo Nordisk



The Novo Nordisk Foundation, Open Philanthropy, and the Bill & Melinda Gates Foundation announced an initial commitment of up to \$90 million of coordinated funding toward Pandemic Antiviral Discovery (PAD), a new initiative to catalyze discovery and early development of antiviral medicines for future pandemics. The goal of PAD is to help researchers worldwide identify and develop Phase II-ready antiviral drug candidates that target pandemic threat viruses. [Read More](#)

A Day in the (Neuroscience) Life: Tissue Processing

Allen Institute



For Brain Awareness Week 2022, the Allen Institute dropped in on five Allen Institute teams working to understand the brain. Get a glimpse into the tissue processing team's workday, who prepare brain tissue for several other teams at the Allen Institute. The hardest part of their job? The paperwork, Windy Ho (pictured) jokes. Their days are generally about half brain-slicing and half data entry. Slicing is by far the more exciting part. [Read More](#)

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Interesting Articles

The US Just Created a Big New Biomedical Research Agency, But Questions Remain

ScienceInsider



President Joe Biden got his wish for a new agency to fund high-risk, cutting-edge biomedical research when Congress created the Advanced Research Projects Agency for Health (ARPA-H) and gave it a \$1 billion startup investment. The 2022 spending bill does not resolve, however, a debate over whether to make ARPA-H a standalone agency within the Department of Health and Human Services or part of the National Institutes of Health. [Read More](#)

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Upcoming Events in Seattle

- March 22 9:00 AM Science Says – Special Edition with Trevor Noah Online
- March 22 4:00 PM SEP Virtual Field Trip: Campbell Lab Online
- March 24 10:30 AM Distinguished Seminar Series – Kenneth D. Harris Online
- March 25-26 4:00 PM SEP School Year Workshop: Elephants and Cancer Unit Online
- April 8 12:00 PM Science Friday Online

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Science Jobs in Seattle

- Scientist I, AAV Gene Therapy, Preclinical Animal Models Allen Institute
- Research Technician I-II Benaroya Research Institute at Virginia Mason
- Research Scientist I, NEX Seattle Children's
- Research Associate II, Cancer Target Discovery Seagen
- Research Technician IV Fred Hutch

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