

Publications of the Week

Proteogenomic Analysis of Chemo-Refractory High-Grade Serous Ovarian Cancer

First Author: Shrabanti Chowdhury, Jacob Kennedy, Richard Ivey, Oscar Murillo, and Noshad Hosseini
 Senior Authors: Scott Kaufmann, Charles Drescher, Marcin Cieslik, Pei Wang, Michael Birrer, and Amanda Paulovich
 Cell | Fred Hutch and UW



To improve the understanding of chemo-refractory high-grade serous ovarian cancers (HGSOCs), the authors characterized the proteogenomic landscape of 242 HGSOCs, representing one discovery and two validation cohorts across two biospecimen types. They identified a 64-protein signature that predicts with high specificity a subset of HGSOCs refractory to initial platinum-based therapy and is validated in two independent patient cohorts. [Abstract](#)

Observing Inhibition of the SARS-CoV-2 Helicase at Single-Nucleotide Resolution

First Author: Sinduja Marx | Senior Author: Andrew Laszlo (pictured)
 Nucleic Acids Research | UW



The genome of SARS-CoV-2 encodes for a helicase (nsp13) that is essential for viral replication and highly conserved across related viruses, making it an attractive antiviral target. The authors use nanopore tweezers, a high-resolution single-molecule technique, to gain detailed insight into how nsp13 turns ATP-hydrolysis into directed motion along nucleic acid strands. [Abstract](#)

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Awards

Dr. Hans-Peter Kiem Awarded amfAR Grant for Research on HIV Gene Therapy

Fred Hutch



Dr. Hans-Peter Kiem (pictured) is pursuing an HIV cure in the form of *in vivo* gene therapy that confers HIV resistance to a specific subset of a patient's hematopoietic stem cells, the building blocks of our blood and immune systems. He was awarded \$480,000 by amfAR, The Foundation for AIDS Research, to support the next stage of his work. [Read More](#)

Bioengineer Aaron Ring receives Anderson Family Endowed Chair for Immunotherapy

Fred Hutch



Dr. Aaron Ring (pictured) was recently named the new Anderson Family Endowed Chair for Immunotherapy. Endowed by long-time Fred Hutch supporters Ric and Kaylene Anderson, the Chair will provide Ring with sustained support as he untangles the immune system's complexities and uses immuno-pharmacological approaches to develop cancer immunotherapies. [Read More](#)

Shaun Jackson Receives \$3 Million Lupus Research Alliance Team Award

Seattle Children's

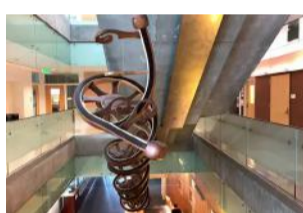


Dr. Shaun Jackson (pictured) from Seattle Children's Research Institute's Center for Immunity and Immunotherapies has been awarded a \$3 million, three-year Global Team Science Award from the Lupus Research Alliance. The grant unites a multidisciplinary research team of experts to identify drivers of kidney involvement in lupus patients with the aim of improving its diagnosis and treatment. [Read More](#)

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Local News

James Mhyre, UW School of Medicine Alum, Creates Sculptures for the Department of Genome Sciences

The Huddle



Dr. James Mhyre, a graduate of the UW School of Medicine, has created and donated two monumental sculptures to the Department of Genome Sciences. In his retirement, Mhyre taught himself the science behind genomics in order to make the sculptures accurate representations of what is studied in the department. They can be viewed from the first floor of the WH Foege Building's south wing. [Read More](#)

Washington State Backs AI-Driven Cancer Diagnostics and Other Startup Projects

GeekWire



Seattle startup Phase Genomics will develop its platform to detect chromosomal aberrations in cancer with \$2.5 million in new funding. The project is fueled with a \$2 million small business award from the U.S. National Cancer Institute and \$500,000 in matching funds from Washington state's Andy Hill CARE Fund. [Read More](#)

ISB Researchers Find a Defect in the Armor of Tuberculosis Pathogen

Institute for Systems Biology



Mycobacterium tuberculosis (Mtb) is the pathogen that causes tuberculosis. Mtb is so successful and harmful because it can adapt to different conditions inside our bodies and thus evade treatment. Researchers Dr. Nitiin Baliga (pictured) and Dr. Eliza Peterson at the Institute for Systems Biology have identified a network within Mtb that allows it to tolerate and resist drug therapies. By disrupting this network, Mtb's key defense mechanism can be compromised. [Read More](#)

The Access to Advanced Health Institute Receives \$18 Million Award to Develop a Temperature Stable, Single-Dose Chikungunya RNA Vaccine Through a Phase 1 Clinical Trial

The Access to Advanced Health Institute



The Access to Advanced Health Institute announced that it has received an \$18 million award from the National Institutes of Health to develop a temperature stable, single-dose vaccine candidate for the chikungunya virus. "This project will demonstrate the use of RNA vaccine technology to avoid some of the classic manufacturing challenges in the large-scale manufacture of live-attenuated vaccines," said Dr. Emily Voigt (pictured), principal scientist. [Read More](#)

Brain Expansion Brings Bigger Brains and Clearer Images, with the Help of a Diaper Chemical

Allen Institute



There is something extraordinary about the mouse brain. This small organ holds nearly 85 million neurons — and the potential to better understand our own brains. A team of researchers, including Dr. Naveen Ouellette (pictured), at the Allen Institute for Neural Dynamics is taking a closer look at these mini marvels with the unlikely assistance of a chemical commonly found in disposable diapers. [Read More](#)

SciShots: A Tree-Like Mouse Lung

Allen Institute



An embryonic lung transforms into a tree-like structure through a developmental process known as branching morphogenesis. How these delicate, complex structures form is still not well understood. Dr. Darrell Kotton (pictured), Dr. Wilson Wong, and their teams at Boston University aim to gain insights into lung development and develop strategies to improve lung health. [Read More](#)

CFAR Mourns the Passing of Dr. Stephaun Elite Wallace

Center for AIDS Research



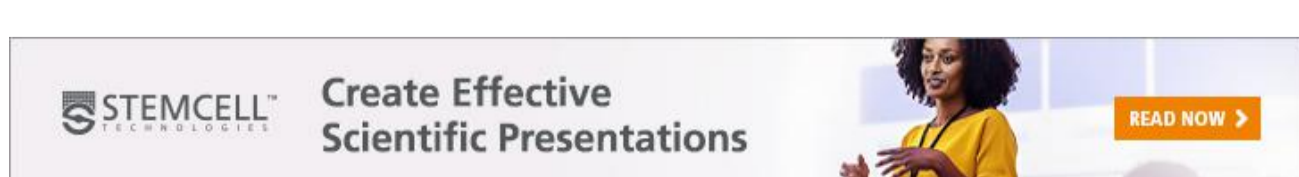
The Center for AIDS Research (CFAR) is deeply saddened to announce the passing of Dr. Stephaun Elite Wallace (pictured), on Saturday, August 5, 2023. Our hearts go out to his family and loved ones across the US and globally. Stephaun touched many through his multi-faceted work addressing the health disparities of HIV and COVID-19, and as a staunch advocate for health equity and social justice. [Read More](#)

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Upcoming Events in Seattle

August 15 10:30 am	Distinguished Seminar Series with Leah Krubitzer Allen Institute
August 17 4:30 pm	Life Science Washington Annual Summer Social 2023 Life Science Washington
August 17 6:30 pm	Lab Skills 101: Extract DNA from Bacteria SoundBio Lab
September 17 - November 21 9:00 am	Lake Conference – Neural Coding and Dynamics Hyatt Regency Lake Washington
September 20 - 24 9:00 am	14th Annual In-Person Comprehensive Hematology and Oncology Review Course Fred Hutch

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