

Publications of the Week

Human *De Novo* Mutation Rates from a Four-Generation Pedigree Reference

First Author: David Porubsky (*pictured*) | Senior Author: Evan Eichler Nature | Blue Marble Space Institute of Science and UW



Understanding the human *de novo* mutation rate requires complete sequence information. Here, using five complementary short-read and long-read sequencing technologies, researchers phased and assembled more than 95% of each diploid human genome in a four-generation, twenty-eight-member family. These near-telomere-to-telomere familial genomes provide a truth set to understand human genetic variation. [Abstract](#) | [Press Release](#)

Enhancer AAVs for Targeting Spinal Motor Neurons and Descending Motor Pathways in Rodents and Macaque

First Author: Emily Kussick | Senior Author: Tanya Daigle (*pictured*) Cell Reports | Allen Institute, Washington National Primate Research Center, and UW



Experimental access to cell types within the mammalian spinal cord is severely limited by the availability of genetic tools. To enable access to spinal motor neurons (SMNs) and SMN subtypes, researchers generated single-cell multiome datasets from mouse and macaque spinal cords and discovered putative enhancers for each neuronal population. [Abstract](#) | [Press Release](#)

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Awards

Dr. Mazyar Shadman Receives Distinguished Faculty Award

UW Medicine



Dr. Mazyar Shadman (*pictured*), an Associate Professor of Hematology and Oncology at UW Medicine, is the 2025 recipient of the Binaytara Distinguished Faculty Award for improving cancer care access and education. Binaytara's mission is to improve healthcare in resource-poor communities and enhance cancer care worldwide. [Read More](#)

Transforming Systems of Care to Address HIV, HIV Risk, and Substance Use Disorders in Prisons

UW Medicine



Dr. Helen Jack (*pictured*) is the Principal Investigator of an National Institute of Health Director's New Innovator Award, "Transforming Systems of Care to Address HIV, HIV Risk, and Substance Use Disorders in Prisons". The four-year, \$2.3 million National Institute on Drug Abuse Avenir grant supports early career researchers conducting high-risk, high-reward research on HIV and substance use. [Read More](#)

Dr. Daniel Lam Receives Distinguished Clinical Service Award

UW Medicine



Dr. Daniel Lam (*pictured*) has received the Distinguished Clinical Service Award from the American Society of Nephrology. This midcareer award recognizes individuals who exemplify leadership and excellence in the practice of nephrology and combine the art of medicine with the skills demanded by the scientific body of knowledge in service to patients. [Read More](#)

Fred Hutch Cancer Center Announces 2025 Evergreen Fund Awardees

Fred Hutch



Nine researchers at Fred Hutch Cancer Center will receive a total of \$1.175 million in funding for early-stage research projects as part of Fred Hutch's Evergreen Fund, an internal grant program designed to accelerate translational science and foster strategic industry collaborations. Among this year's cohort is Dr. Jim Boonyaratanakornkit (*pictured*). [Read More](#)

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Local News

New Postdoc Fellowship Program Builds on Innovative SeattleHub Research

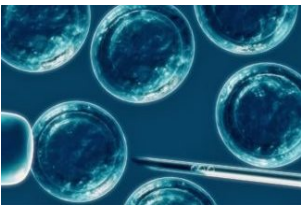
Brotman Baty Institute



Applications are now open for the new SeaBridge postdoctoral fellowship program which partners with the Seattle Hub for Synthetic Biology. It will recruit and train approximately forty postdocs over five years to advance SeattleHub's technologies, leveraging academic strengths with host laboratories including the UW, Fred Hutch, and Seattle Children's. [Read More](#)

What Constitutes Appropriate Scientific Justification in Stem Cell Research?

UW Institute for Stem Cell & Regenerative Medicine



Scientists today have access to increasingly sophisticated research tools, including capabilities that allow them to culture embryos and create embryo models. Recently, a team led by Dr. Erica Jonlin from UW published a paper that offers a detailed set of practical recommendations to help review boards, regulators, and researchers around the world evaluate and justify the application of these powerful new technologies. [Read More](#)

From Data to Diagnosis: BBI Survey Reveals Roadblocks and Opportunities for Using Functional Evidence in Variant Classification

Brotman Baty Institute



A new survey of nearly 200 genetics professionals indicates there is a strong demand for a comprehensive database with standardized metrics to support using functional evidence in clinical variant interpretation. In addition, respondents voiced the need for clear guidelines on how to handle conflicting functional data in variant classification. This study was led by Drs. Andrew Stergachis, Lea Starita, and Runjun Kumar (*pictured*). [Read More](#)

ACT Research Symposium Meets Virtually to Discuss Brain Aging Science

Kaiser Permanente Washington Health Research Institute



In May, the Adult Changes in Thought (ACT) 12th Research Symposium occurred over the course of 2 days. Researchers and interested individuals gathered online to discuss research related to the ACT Study and brain aging science. The ACT Study is a long-running cohort study that follows older adults who receive care as Kaiser Permanente Washington members. [Read More](#)

Empowering the Next Generation Through Open Science

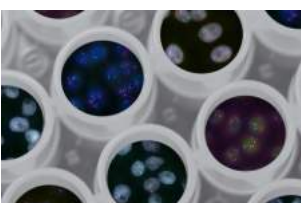
Allen Institute



Science is not just for scientists, it's for everyone and the Allen Institute is helping pave the way. The Allen Institute's Education and Engagement Program is designed to open the doors of discovery to all. This new program supports access to real-world open science resources, research, and data for students, educators, and scientists. [Read More](#)

Pioneering Cancer Plasticity Atlas Will Help Predict Response to Cancer Therapies

BusinessWire



The Wellcome Sanger Institute, Parse Biosciences, and the Computational Health Center at Helmholtz Munich announced a collaboration to build the foundation of a single-cell atlas, focused on understanding and elucidating cancer plasticity in response to therapies. The collaboration will catalyze an ambitious future phase to develop a cancer plasticity atlas encompassing hundreds of millions of cells. [Read More](#)

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Upcoming Events in Seattle

June 23
6:00 PM

A Virtual RECOVER Town Hall Event

Online

June 24
12:00 PM

Research Roundtable with Dr. Jim Heath: Generative AI and the Secrets of Your Immune System

Online

June 27
8:00 AM

Dr. Rainer Storb Symposium

Fred Hutch

July 9 - 11
8:00 AM

2025 Neuropixels and OpenScope Workshop

Allen Institute

July 21 - 24
8:00 AM

Developing Open Neuroscience Teaching Tools Workshop

Allen Institute

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Science Jobs in Seattle

Principal Scientist, Discovery Biology, Oncology

Bristol Myers Squibb

Postdoctoral Fellow, Franks Lab

Seattle Children's

Research Associate I, Brain-Wide Electrophysiology

Allen Institute

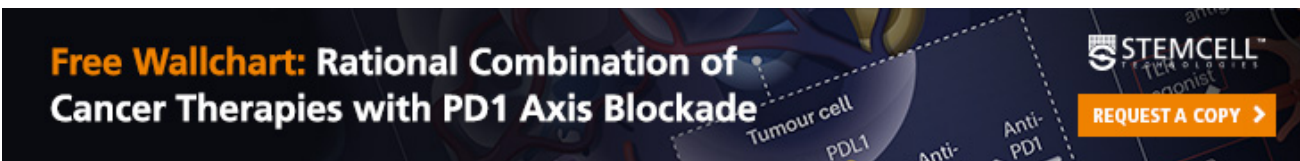
Clinical Assistant, Associate or Full Professor, Non-Malignant Hematology

Fred Hutch

Medical Laboratory Scientist

UW

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