

Publications of the Week

Predicting Epistasis Across Proteins by Structural Logic

First Author: Michelle Tang (*pictured*) | Senior Author: Aimée Dudley
Proceedings of the National Academy of Sciences | Pacific Northwest Research Institute and UW



Accurately predicting the phenotypic consequences of genetic variation is a major challenge for precision medicine. The problem is exacerbated by epistatic interactions, nonadditive effects between genetic variants that produce unexpected phenotypes. Here, researchers explore an understudied form of positive epistasis: intragenic complementation, in which pairs of loss-of-function variants restore near wild-type protein function. [Abstract](#) | [Press Release](#)

[View All Publications](#)

Awards

Gordon and Betty Moore Foundation Funds 16 UW Post Docs Across the College of Arts & Sciences, the College of Engineering, and the College of the Environment

UW News



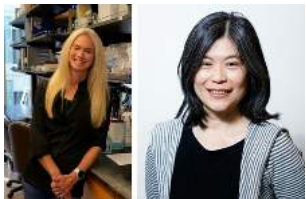
UW was awarded \$2.5 million from the Gordon and Betty Moore Foundation to fund 16 postdoctoral fellows in a number of fields across the College of Arts & Sciences, the College of Engineering, and the College of the Environment. Drs. Jamie Cochran (*pictured*), Debarati Das, Sophia Jannetty, Atsushi Matsuda, and Corinne Viorisz are among the recipients. [Read More](#)

[View All Awards](#)

Local News

Scientific Exchange Fosters Cross-Institute Collaboration

UW Institute for Stem Cell and Regenerative Medicine (ISCRM)



More than 60 faculty and trainees from two of the largest multidisciplinary research institutes at the UW recently gathered in Foege Hall for the inaugural ISCRM – MoES Scientific Exchange. This meeting of the minds between ISCRM and the Molecular Engineering and Sciences Institute (MoES) was led by Drs. Jennifer Davis (*pictured, left*) and Suzie Pun (*right*). [Read More](#)

Nautilus Biotechnology and Weill Cornell Medicine-Qatar Team Up to Apply Single Molecule Proteomics Tech to Parkinson's

Genetic Engineering & Biotechnology News



Seattle-based Nautilus Biotechnology and Weill Cornell Medicine-Qatar (WCM-Q) have launched a \$1.6M Michael J. Fox Foundation–funded collaboration to study alpha-synuclein's role in Parkinson's disease. Combining WCM-Q's expertise with Nautilus' single-molecule proteomics platform, the team will develop high-resolution assays to map alpha-synuclein proteoforms and advance diagnostics. [Read More](#)

Understanding the Immune System's Brakes

Benaroya Research Institute (BRI)



When Dr. Daniel Campbell (*pictured*) joined BRI in the early 2000s, he became interested in the rapidly developing field of T_{regs}. He was intrigued by the relationship between T_{regs} and a cytokine called interleukin-2 (IL-2). "T cells need IL-2 to grow. We assumed that without IL-2, T cells would be very underactive," Dr. Campbell said. "But the opposite was true: Blocking IL-2 caused raging autoimmunity." [Read More](#)

A Decades-Long Dream Becomes Reality

Benaroya Research Institute



For Dr. Jane Buckner (*pictured*) the discovery of T_{regs} in the late 1990s sparked an idea for better, more targeted autoimmune disease therapies. "Developing a T_{regs}-based therapy to treat autoimmune diseases has been a goal for most of my career," Dr. Buckner said. "And the first clinical trials of this type of therapy for type 1 diabetes just began." [Read More](#)

Partnering With Anthropic to Supercharge Research and Help Cure Disease

Allen Institute



Scientists at the Allen Institute and the world's leading AI researchers and engineers from Anthropic are joining forces to fuel transformative discoveries in human health. Together, they're embarking on an ambitious mission to design and deploy custom, autonomous AI agents that will tackle the most challenging questions in bioscience at an unprecedented speed and scale. [Read More](#)

Q&A: How Repeating Decades-Old Experiments Can Help Us Understand How Organisms Change Over Time

UW News



Researchers are trying to understand how changes in the environment lead to changes in organisms. Dr. Lauren Buckley (*pictured*), UW Professor of Biology, recently had the opportunity to organize a special issue of *The American Naturalist* featuring papers that use "functional resurvey" experiments to answer questions about a variety of organisms, from bacteria to plants and animals. [Read More](#)

RevealDx Receives FDA Clearance for AI Powered Lung Nodule Risk Assessment

RevealDx



Seattle-based RevealDx, a leader in AI tools for the characterization of lung nodules, announced FDA clearance of RevealAI-Lung. The RevealDx technology characterizes incidental lung nodules by producing a Malignancy Similarity Index, a score that is intended to help radiologists make more informed follow-up recommendations to assist in cancer diagnosis. [Read More](#)

[View All Local News](#) | [Submit an Article](#)

Upcoming Events in Seattle

March 5
4:00 PM

Life Science Washington March Networking Event
The Loft

March 21
10:00 AM

BrainFest 2026
Pacific Science Center

April 7
6:30 PM

UW Public Lectures: Interrogating the Epigenome to Reveal Pregnancy Risks in Moms with High Blood Pressure
Town Hall Seattle

April 25
8:00 AM

2026 Cell Signaling Breakthroughs Symposium
Renaissance Seattle Hotel

Sept. 23 - 25
8:00 AM

Stem Cell & Developmental Biology Early Career Symposium
Allen Institute

[View All Events](#) | [Submit an Event](#)

Science Jobs in Seattle

Scientist I, Protein Binding Screening & Prediction
Allen Institute

Laboratory Analyst, Afternoon Shift
IEH Laboratories

Clinical Cell Processing Associate
Seattle Children's

Post-Doctoral Research Fellow, Genomics
Fred Hutch

Medical Lab Scientist
St Joseph Medical Center

[View 66 Other Science Jobs](#) | [Submit a Job](#)

Free Wallchart: T Cell Nomenclature
From Subsets to Modules

REQUEST A COPY

Submit your articles and events by reaching out to us at info@scienceinseattle.com.

BROUGHT TO YOU BY



STEMCELL Technologies
Products | Services

STEMCELL Science News
Free Weekly Updates on Your Field

The Stem Cell Podcast
Interviews and Updates on Stem Cell Science