

Publications of the Week

The Ubiquitin Ligase KLHL6 Drives Resistance to CD8⁺ T Cell Dysfunction

First Authors: Hongcheng Cheng, Yapeng Su (*pictured*), and Xiaoli Pan | Senior Author: Guideng Li
Nature | Parker Institute for Cancer Immunotherapy, Fred Hutch, and UW



Transcriptomic and epigenomic regulation of T cell dysfunction have been extensively studied, but the role of proteostasis remains less defined. Here, researchers combined computational analyses of atlases of T cell exhaustion and mitochondrial fitness with performed targeted *in vivo* CRISPR screens, which identified the E3 ubiquitin ligase KLHL6 as a dual-negative regulator of both T cell exhaustion and mitochondrial dysfunction. [Abstract](#)

Machine Learning Models Predict Long COVID Outcomes Based on Baseline Clinical and Immunologic Factors

First Authors: Naresh Doni Jayavelu (*pictured*) and Hady Samaha | Senior Author: Matthew Altman
Communications Medicine | Benaroya Research Institute and UW



Using computer programs that can find hidden patterns in large sets of data, researchers discovered that people with a weaker immune response, higher amounts of virus, certain long term health problems, and women are more likely to develop long COVID. This study highlights that computer-based tools could help doctors identify high-risk patients early and provide care that may prevent long-term complications. [Abstract](#)

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Awards

2025 William J. Bremner Endowed Mentorship Awards

UW Medicine



UW Medicine congratulates the 2025 William J. Bremner Endowed Mentorship Award recipients, Drs. William Altemeier (*pictured, left*) and Ellen Schur (*right*). These awards honor faculty members for their contributions to the scientific, educational, and patient care missions of the department through exemplary sustained and high impact mentorship. [Read More](#)

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Local News

Two Wrongs Make a Right: How Two Damaging Variants Can Restore Health

Pacific Northwest Research Institute (PNRI)



In a groundbreaking study published in the *Proceedings of the National Academy of Sciences*, scientists at PNRI have overturned a long-held belief in genetics: that inheriting two harmful variants in the same gene always worsens disease. Instead, the team in Dr. Aimée Dudley's (*pictured*) lab found that, in many cases, two harmful variants can actually restore normal protein function. [Read More](#)

Dr. Laura Evans Appointed Executive Director of National Special Pathogen System

UW Medicine



Dr. Laura Evans (*pictured*) has been appointed Executive Director of the National Special Pathogen System (NSPS). The NSPS is a federally directed, tiered framework that coordinates special pathogen care across the United States. She steps into this role at a transformative time for NSPS, marked by the recent addition of 54 Level 2 Special Pathogen Treatment Centers. [Read More](#)

3D Vision for Surgical Precision

UW Mechanical Engineering



Researchers from UW Mechanical Engineering and UW Medicine have developed a solution to help surgeons perform safer, more complete and more precise endoscopic procedures in the sinus and skull. The VISTA (vision-integrated surgical tracking assistance) system can provide much-needed guidance to clinicians by creating 3D models of the surgical field as tissue is being taken out. [Read More](#)

Adaptive Biotechnologies Spinout Digital Biotechnologies Raising \$15M to Develop Clinical Sequencing Tech

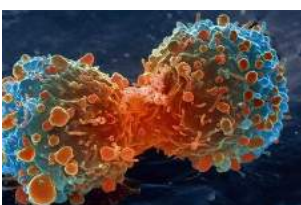
GeekWire



Digital Biotechnologies, a new Seattle-based subsidiary of publicly traded immune medicine company Adaptive Biotechnologies, has raised fresh cash as part of an initial closing of a Series A investment round. The round could total up to \$15 million, according to a recent regulatory filing from Adaptive. Digital Biotechnologies is developing DNA sequencing technology. [Read More](#)

Lilly Links Up with InduPro in Next-Gen Cancer Treatment Deal Worth Up to \$950M

Fierce Biotech



InduPro has partnered with Eli Lilly to discover new cancer therapies using its AI-enabled membrane interactomics platform. InduPro will lead early discovery on up to three undisclosed targets. The collaboration could reach \$950M and includes a Lilly equity investment, reinforcing confidence in InduPro's tumor-selective, multispecific oncology approach. [Read More](#)

Seattle Hub's Write Team: Tackling 'Tricky Problems' Toward Fulfilling an Extraordinary Mission

Brotman Baty Institute



Dr. Molly Gasperini (*pictured, front*) serves as the lead scientist for the Write Team, a group charged with developing CRISPR-based tools that engineer cells to record their histories to their own genome. For many, this might appear to be a daunting challenge. For Dr. Gasperini and her team of six researchers, it is an exciting opportunity of cutting-edge of biology and technology. [Read More](#)

Researchers Pinpoint Biomarkers for Schizophrenia

UW Medicine



Researchers have identified two biomarkers — verbal learning and identifying other peoples' emotions — that could distinguish between people with and without schizophrenia, according to a study published in *Nature Mental Health*. "The fact that we only needed two tests was really quite shocking," said Dr. Robert Chen (*pictured*), the paper's lead author. [Read More](#)

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📅 Upcoming Events in Seattle

January 26 7:00 PM	Science on Tap Ravenna Third Place - Cafe Arta
February 10 6:00 PM	Winter 2026 Nature and Health Community Dinner Fremont Brewing
February 11 11:00 AM	Neuroscience Cell Types Webinar: Getting Started with Programmatic Access to ABC Atlas Data Online
February 11 12:00 PM	Immune-Related Adverse Events Webinar Series: Rheumatologic irAEs Online
April 7 6:30 PM	UW Public Lectures: Interrogating the Epigenome to Reveal Pregnancy Risks in Moms with High Blood Pressure Town Hall Seattle

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📁 Science Jobs in Seattle

Research Technician IV Seattle Children's	Post-Doctoral Research Fellow, Hsieh Lab Fred Hutch
Scientist I, Connectomics Allen Institute	Scientist, Predictive Biology and AI Bristol Myers Squibb
Senior Scientist, Immuno-Oncology Systimmune	

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