

Publications of the Week

Low Overlap of Transcription Factor DNA Binding and Regulatory Targets

First Author: Lakshmi Mahendrawada (*pictured*) | Senior Author: Steven Hahn
Nature | Fred Hutch



In yeast, most transcription factors (TFs) are thought to regulate transcription via binding to upstream activating sequences. Here, researchers integrated information on the binding and expression targets for the near-complete set of yeast TFs and show that, contrary to expectations, there are few TFs with dedicated activator or repressor roles, and that most TFs have a dual function. [Abstract](#) | [Press Release](#)

Bioprinted Platform for Parallelized Screening of Engineered Microtissues *In Vivo*

First Author: Colleen O'Connor | Senior Author: Kelly Stevens (*pictured*)
Cell Stem Cell | Institute for Stem Cell and Regenerative Medicine, Brotman Baty Institute, and UW



Human engineered tissues hold great promise for therapeutic tissue regeneration and repair. Yet, development of these technologies often stalls at the stage of *in vivo* studies due to the complexity of engineered tissue formulations. Here, researchers introduce a “plug and play” platform called parallelized host apposition for screening tissues *in vivo* (PHAST). [Abstract](#) | [Press Release](#)

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Awards

\$600,000 in Awards Against Ovarian Cancer for Fred Hutch and UW Researchers

Fred Hutch



In 2023, the Rivkin Center partnered with the Andy Hill Cancer Research Endowment (CARE) Fund to fund \$1 million in grants to unlock answers in ovarian cancer. This year, researchers Drs. Megan Shen (*pictured*) and Mary “Nora” Disis of Fred Hutch and UW Medicine respectively, have each been recently awarded \$300,000 in grants under the Rivkin Center and CARE Fund partnership for projects that aim to improve outcomes of the disease. [Read More](#)

Neelendu Dey Inaugural Holder of Kyle Thomas Spane Endowed Chair

UW Medicine



Dr. Neelendu Dey (*pictured*), Associate Professor of Gastroenterology, has been selected as the inaugural holder of the Kyle Thomas Spane Endowed Chair at Fred Hutch. This is the first community-funded endowed chair at the Hutch. The chair supports a faculty member working in colon cancer prevention, early detection, and emerging research opportunities. [Read More](#)

Announcing the Recipients of the 2024 New Investigator Award

UW/Fred Hutch Center for AIDS Research



The UW/Fred Hutch Center for AIDS Research has announced the 2024 New Investigator Award (NIA) recipients. The purpose of this award program is to encourage early-stage investigators to conduct independent research. The 2024 CFAR NIA awardees are Drs. Taylor Hendrixson, Brandon Maust, Michalina Montaño, Jillian Neary, Lilian Njagi, Rachael Parks (*pictured*), and Khai Hoan Tram. [Read More](#)

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Local News

Scientists Complete Largest Wiring Diagram and Functional Map of the Brain to Date

Allen Institute



From a tiny sample of tissue no larger than a grain of sand, scientists have come within reach of a goal once thought unattainable: building a complete functional wiring diagram of a portion of the brain. In 1979, famed molecular biologist, Francis Crick, stated that it would be impossible. But during the last seven years, a global team of more than 150 neuroscientists and researchers has brought that closer to reality. [Read More](#)

WSU Researchers Develop Machine Learning Model to Predict Virus Reservoirs

WSU Insider



A new AI tool could aid in limiting or even prevent pandemics by identifying animal species that may harbor and spread viruses capable of infecting humans. Created by Washington State University (WSU) researchers, the machine learning model analyzes host characteristics and virus genetics to identify potential animal reservoirs and geographic areas where new outbreaks are more likely to occur. [Read More](#)

Proprio Receives Second FDA Clearance for AI Platform That Captures Key Data During Surgery

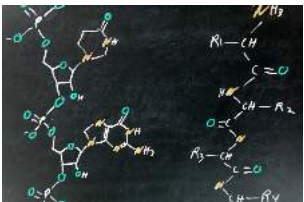
GeekWire



Proprio, a Seattle startup using AI for improved surgical precision, received its second major clearance from the US FDA to include measurements taken during operations. The company's technology platform, called Paradigm, captures high-definition images of the operating field from above and fuses them with images of pre-operative 3D scans. [Read More](#)

Wayfinder Biosciences and Daiichi Sankyo Collaborate to Develop Novel RNA-Targeting Therapies for Neurodegenerative Disease

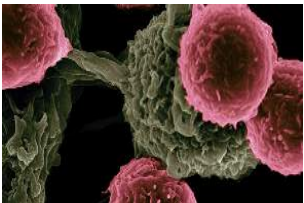
PR Newswire



Wayfinder Biosciences, a Seattle-based biotechnology company targeting RNA with small molecules, announced a collaboration with Daiichi Sankyo focused on a key neurodegeneration target. Wayfinder's proprietary technology discovers potent, selective, and functional RNA-targeting small molecules with the ideal properties of conventional orally available drugs. [Read More](#)

RNA “Typos” Can Highlight Leukemia Cells for Immune Attack

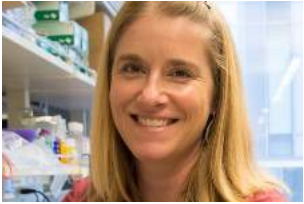
Fred Hutch



Cancers driven by hiccups in RNA processing can't hide from our immune system, according to new work published in *Cell*. A cross-institutional team Fred Hutch and Memorial Sloan Kettering Cancer Center found that common splicing factor mutations in myelodysplastic syndrome or acute myeloid leukemia cells create tell-tale, cancer-specific molecular “typos” that sharp-eyed immune cells can read. [Read More](#)

How Cellular Dysfunction Associated with Alzheimer’s Disease Arises in Microglia

UW Institute for Stem Cell & Regenerative Medicine (ISCRM)



Dr. Jessica Young (*pictured*) is an Associate Professor of Lab Medicine and Pathology and a faculty member in ISCRM. Her lab uses iPSC to explore how operational breakdowns within neurons and microglia contribute to Alzheimer's disease. In particular, the Young Lab is interested in the dysfunction along the endo-lysosomal pathway that can occur over many years. [Read More](#)

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Upcoming Events in Seattle

May 1 - 2 8:00 AM	Engineering Biology Research Consortium 2025 Annual Meeting University of Washington
May 3 9:00 AM	NSPN National Symposium Rainier Club
May 7 7:30 pm	Artificial Intelligence, Hope, and the Human Spirit Town Hall Seattle
May 11 - 14 8:00 AM	Symposium on Infectious Diseases in the Immunocompromised Host Grand Hyatt Seattle
May 14 4:30 PM	Nucleate Seattle: 2025 Demo Day Allen Institute

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