

Volume 9.41: October 19, 2026

Publications of the Week

A DNA Typewriter Records the Cell Lineage History of a Mouse, From Zygote to Late Organogenesis

First Author: Qi Yu, Haedong Kim, and Sophie Seidel | Senior Author: Jay Shendure *(pictured)*
Science | Seattle Hub for Synthetic Biology, Howard Hughes Medical Institute, Allen Institute, Brotman Baty Institute, AI BioDesign, and UW



Mammalian biology unfolds over time, within tissues and organs opaque to our eyes and instruments. Researchers applied DNA Typewriter, a sequential molecular recorder, to record the cell lineage of a mouse over nearly two weeks of development. From one embryo, they reconstructed a time-calibrated, parsimony-supported, zygote-rooted phylogeny of 1.28 million transcriptionally profiled cells.
Abstract | Press Release

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Awards

WRF Awards $272,500 to University of Washington's Aman Garg to Advance Catheter Technology for Complex Heart Procedures

Washington Research Foundation (WRF)



WRF has awarded a $272,500 Phase II technology commercialization grant to Aman Garg *(pictured)*, a research engineer at UW. The grant supports continued development of the FlexLock Guide Catheter, a device Garg conceived as a UW graduate student to make complex heart procedures safer and more efficient. The award follows a $110,000 WRF Phase I grant in 2025. **Read More**

Fred Hutch Researchers Look at Longevity in Older Women, Metabolic Signatures of Vaginitis

Fred Hutch



Two Fred Hutch scientists received prestigious R01 awards to support development of biomarkers for disease diagnosis and risk detection. Dr. Alexander Reiner *(pictured, right)* was awarded a five-year, $3.5 million award for his investigation of CHIP. Dr. Sujatha Srinivasan *(left)* received a five-year, $4.28 million award to develop a streamlined diagnostic algorithm for vaginitis based on small-molecule metabolites made by vaginal microbes. **Read More**

Fred Hutch and UW MD/PhD Candidate Wins ARCS Leadership Award

Fred Hutch



Alex Doan *(pictured)*, an MD/PhD candidate and researcher at Fred Hutch and UW, was recently named the 2026 recipient of the Dorothy L. Simpson Leadership Award from the Seattle chapter of the Achievement Rewards for College Scientists (ARCS) Foundation. The ARCS Foundation provides financial support to top graduate scholars in STEM fields. **Read More**

NAD^+ Metabolism in Pneumonia

UW Medicine



Pneumonia causes more than 3 million deaths annually. Antibiotics are the mainstay of treatment, but emerging resistance to many antibiotics necessitates identification of alternative therapies. Dr. Taylor Coston *(pictured)* at UW has received a K23 Career Development Award to understand how abnormalities in NAD^+ metabolism contribute to immune responses and outcomes in severe pneumonia. **Read More**

Host Pathogen Variation and TB Pathogenesis

UW Medicine



Dr. Thomas Hawn *(pictured)* at UW has received a five-year renewal of a P01 grant from National Institute of Allergy and Infectious Diseases. The goal of this grant is to discover genetic differences that underlie tuberculosis (TB) clinical outcomes which will lead to new insights into host-pathogen interactions, novel biomarkers for clinical management, and innovative immunomodulatory treatment strategies. **Read More**

View All Awards

Local News

Allen Institute Featured on Pocket Science Podcast From KUOW

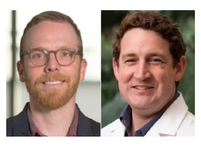
Life Science Washington



A full wiring diagram of the brain could show how its different parts work together, and it could potentially reveal new insights into diseases like Alzheimer's and Parkinson's. Podcast host Gabriel Spitzer visits the Allen Institute on an episode of the *Pocket Science* podcast to explore their electron microscopy connectomics project and learn how researchers are using AI to parse over 100 million high resolution pictures of a slice of mouse brain the size of a poppyseed. **Read More**

Innovation Fund Spotlight: Finding the Precise Moment When Immune Cells Start Causing Disease

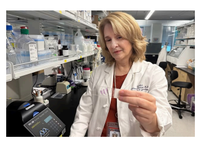
Benaroya Research Institute (BRI)



Autoimmune diseases happen when immune cells, which are supposed to protect you from germs, mistakenly attack healthy tissues. But what if we knew exactly which immune cells would attack – and when? Could we stop that attack before it starts? Drs. John Ray *(pictured, left)* and Oliver Harrison *(right)* at BRI are exploring exactly that using CRISPR-based lineage recording. **Read More**

Flu in Pregnancy Forces the Placenta Into Costly Defense

UW Medicine



A mother's influenza infection drives her placenta into full antiviral defense. A new study has shown that this defense appears to come at a cost to the placenta's health. "While the placenta is fighting the virus, it is pulling resources away from keeping placental cells healthy and growing," explained Dr. Kristina Adams Waldorf *(pictured)*, the study's senior author. **Read More**

First-of-Its-Kind Stem Cell and Developmental Biology Symposium Brought More Than Just Science

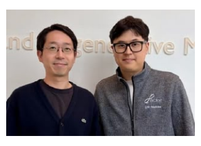
Allen Institute



Over 160 attendees gatheres in Seattle for the first-ever Stem Cell & Developmental Biology Early Career Symposium hosted by the Allen Institute's Cell Science group. Through months of planning, Cell Science partnered with the International Society for Stem Cell Research and the Society for Developmental Biology for the three-day symposium led by and aimed at early-career scientists. **Read More**

Friends, Founders, and a Faster Approach to Drug Discovery

UW Institute for Stem Cell and Regnerative Medicine



Drs. Justin Lee *(pictured, right)* and Changho Chun *(left)* began their start-up journey at UW, moving from the lab bench to the UW CoMotion boot camp, which is designed to help researchers move technologies toward commercialization. In December 2025, they launched NuukBio. Their technology could help solve a bottleneck in AI-powered drug development. **Read More**

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Upcoming Events in Seattle

October 20 6:30 PM	**An Evening with Bill Nye** The 5th Avenue Theatre
October 25-29 8:00 AM	**2026 Lake Conference – Comparative and Evolutionary Neurobiology** Hyatt Regency Lake Washington
November 17 8:00 AM	**Immunology to Change Lives** Benaroya Research Institute
November 21 7:00 PM	**Brewology** Pacific Science Center
December 9 8:30 AM	**2026 ISB Frontiers in Computational Biology Symposium** Institute for Systems Biology

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Science Jobs in Seattle

Research Associate I/II I-O
SystImmune

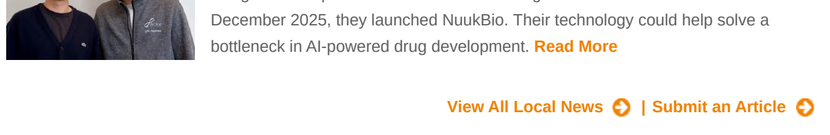
Field Applications Specialist, Immunohistochemistry
Danaher

Clinical Specialist, Urology, Sacral Neuromodulation
Boston Scientific

Medical Laboratory Scientist 1
UW

Research Technician I/II, Urdahl Lab
Seattle Children's

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