

Publications of the Week

Progression to Rheumatoid Arthritis in At-Risk Individuals Is Defined by Systemic Inflammation and by T and B Cell Dysregulation

First Authors: Ziyuan He *(pictured)* and Marla Glass | Senior Authors: Adam Savage, Gary Firestein, Kevin Deane, Troy Torgerson, and Mark Gillespie
Science Translational Medicine | Allen Institute and the BRI Center for Interventional Immunology



Rheumatoid arthritis (RA) is preceded by an at-risk stage of disease that can be marked by the presence of anticitrullinated protein antibodies but the absence of clinically apparent synovitis (clinical RA). Using integrative multiomics, researchers longitudinally profiled at-risk individuals, where one-third of participants developed clinical RA on study. [Abstract](#) | [Press Release](#)

Breast Milk IgG Engages the Mouse Neonatal Immune System to Instruct Responses to Gut Antigens

First Author: Meera Shenoy | Senior Author: Meghan Koch *(pictured)*
Science | Fred Hutch and UW



In mammals, the early-life period after birth is a time of profound immune development. Using an established mouse model of maternal antibody deficiency in which offspring were cross-fostered at various postnatal time points, researchers found that ingestion of breast milk antibodies in the first week of life served to restrain germinal center T follicular helper cell and B cell responses weeks later. [Abstract](#) | [Press Release](#)

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Awards

Dr. Olanrewaju Earns NIH Maximizing Investigators' Research Award

UW Department of Bioengineering



Dr. Ayokunle Olanrewaju *(pictured)* has earned a Maximizing Investigators' Research Award from the National Institutes of Health's (NIH) National Institute of General Medical Sciences. The \$2.1 million grant is for five years. Often referred to as "R35 awards," these grants support broad research programs over the course of several years rather than discrete, individual projects. [Read More](#)

MoES Students Honored with Top Awards for Research, Service

UW Institute for Molecular Engineering and Sciences (MoES)



UW's Institute for Molecular Engineering and Sciences recognized outstanding graduate students in the spring with distinguished dissertation, scientific achievement, and service awards. Sarah Wait *(pictured)*, advised by Dr. Andre Berndt, was among the awardees and was recognized for groundbreaking work in molecular biosensor engineering with a Distinguished Dissertation Award. [Read More](#)

Advancing Precision Genomics for Pediatric Leukemia Patients with Long Read Sequencing

The Andy Hill CARE Fund



The Andy Hill CARE Fund has awarded a two-year grant for \$1,000,000 to the Ben Towne Center Genomics and Epigenomics Program, Seattle Children's Drs. Rachel Rau *(pictured)*, Jay Sarthy, and Scott Furlan among others. Their project will use long-read genomic sequencing to enhance diagnostic precision, uncover disease drivers, and guide more effective treatment options for children with leukemia. [Read More](#)

Blood Sugar Sensing on Maintenance Dialysis

UW Medicine



Dr. Ian de Boer *(pictured)* leads a newly renewed grant to study state-of-the-art continuous glucose monitoring on dialysis patients to better understand blood glucose patterns. This project is a five-year competitive renewal from the National Institute of Diabetes and Digestive and Kidney Diseases that will extend the original BLOSSOM (BLOod Sugar Sensing On Maintenance dialysis) study. [Read More](#)

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Local News

Experts Urge Clinical Trials Network to Study Infectious Disease Therapies in Immunocompromised Patients

UW Medicine



A coalition of leading infectious disease and cancer experts is urging for the creation of a clinical trials network to evaluate the safety and efficacy of existing and new therapies for immunocompromised people. "Immunocompromised patients are often excluded from clinical trials for new therapies to treat and prevent infections, which means we lack critical data to guide their care," said Dr. Josh Hill *(pictured)*, who is one of the researchers leading the way. [Read More](#)

Long-Read Symposium: Two Presenters Share Their Research and Impressions

Brotman Baty Institute (BBI)



The third annual long read symposium on September 16th, hosted by BBI's Dr. Danny Miller, included presentations by Sophie Kogut, a graduate student in the Blanco-Melo lab at the Fred Hutch, and Dr. F. Kumara Mastroianni *(pictured)*, a Postdoctoral Scholar in the Eichler Lab at UW. This Q&A explores their research and impressions of the event. [Read More](#)

Remembering Dr. Charles 'Chuck' Watts: A Leader, Friend, and Advocate for ISB

Institute for Systems Biology



The Institute for Systems Biology (ISB) mourns the passing of Dr. Charles "Chuck" Watts *(pictured)*, who died on September 23, 2025, at the age of 82 after a battle with esophageal cancer. Chuck was not only a dedicated member of ISB's Board of Directors, serving as Chair in recent years, but also a close friend, a trusted advisor, and a tireless advocate for their mission. [Read More](#)

Probe Powerfully Records Neural Circuits During Behavior

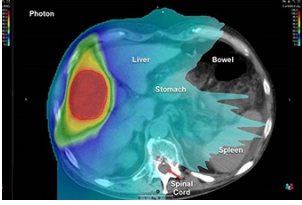
UW Medicine



A newly developed probe, called Neuropixels Ultra, overcomes some key technical challenges in recording the cell type and activity of thousands of individual cells across many brain regions during a single experiment. "We developed a silicon probe with much smaller and denser recording sites than previous designs," said Dr. Nick Steinmetz *(pictured)* from UW, the corresponding author of a report on tests of the probe's function. [Read More](#)

The Beam: Understanding Liver, Gastrointestinal, and Breast Cancer Treatments at Fred Hutch – Proton Therapy

Fred Hutch



Drs. Smith Apisarnthanarax and Kylie Kang talk about the latest updates in liver, gastrointestinal, and breast cancer, and explain the importance of proton therapy when treating these areas. Proton therapy can be especially helpful for patients who need radiation treatment in an area that has already had radiation. The beams are precisely controlled to target the tumor while delivering less radiation to nearby healthy tissue. [Read More](#)

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Upcoming Events in Seattle

October 9

8:00 AM

ISSCR: Seattle International Symposium

Block 41

October 14

8:30 AM

Preclinical Development and IND Filing for Antibody Therapeutics: the Nuts, Bolts, and Best Practices

Seattle Asian Art Museum

October 14

6:00 PM

Nature and Health Fall Community Dinner

Fremont Brewing

October 23 - 24

12:00 PM

Cascadia 6.0

University of Washington

November 6

5:30 PM

SpaceVision 2025

The HUB Seattle

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Science Jobs in Seattle

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UW

Clinical Research Coordinator II

Seattle Children's

Cell Therapy Specialist II

Fred Hutch

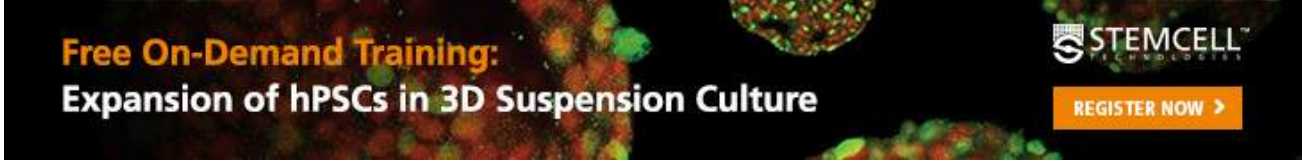
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Bristol Myers Squibb

Clinical Research Coordinator, Tumor Institute

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