SCIENCE in SEATTLE

Volume 8.21: June 2, 2025

Publications of the Week

Myeloid Cell Gnome-Wide Screen Identifies Variants Associated with *Mycobacterium tuberculosis*-Induced Cytokine Transcriptional Responses

First Author: Joshua Ivie | Senior Author: Thomas Hawn *(pictured)*
The Journal of Clinical Investigation | UW

Immune and clinical outcomes to *Mycobacterium tuberculosis* (Mtb) infection vary greatly between individuals yet the underlying genetic and cellular mechanisms driving this heterogeneity remain poorly understood. Researchers performed a cellular genome-wide association study to identify genetic variants associated with Mtb-induced monocyte transcriptional expression of *IL1B, IL6, TNF,* and *IFNB1* via RNA-seq in a Ugandan cohort. **Abstract**

Anti-HSP90a IgG May Protect Against Antiphospholipid Syndrome in Systemic Lupus Erythematosus by Reducing Platelet Activation

First Author: Marina Barguil Macêdo | Senior Author: Christian Lood *(pictured)*
British Journal of Haematology | UW

Natural autoantibodies (NAAbs) are immunoglobulins generated in the absence of antigen provocation, with no inherent pathogenic effect, but instead involved in maintaining immune homeostasis. Researchers aimed to evaluate the implication of immunoglobulin G antibodies against heat shock protein 90α in systemic lupus erythematosus patients, focusing on how those NAAbs may interfere with the immunothrombosis process. **Abstract**

View All Publications

Awards

Dr. Petros Grivas Receives Young Investigator Award

UW Medicine

UW Medicine congratulates Dr. Petros Grivas *(pictured)*, Professor of Hematology and Oncology, on receiving the Young Investigator Award from the ECOG-ACRIN Cancer Research Group. This award is given annually by the ECOG-ACRIN to one outstanding researcher in recognition of extraordinary scientific achievements during the early years of their career. **Read More**

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Local News

Beyond Faulty Genes: Sui Huang Presents a Canad Paradigm Shift

Institute for Systems Biology (ISB)

Imagine cancer not just as a collection of cells with faulty genes, but as a dynamic system where cells can change their behavior without any alterations to their underlying DNA. This is the provocative cancer paradigm shift at the heart of a recent ISB Research Roundtable presentation by Dr. Sui Huang *(pictured)*. Here, Dr. Huang offered a fresh perspective that could revolutionize how we think about and treat this complex disease. **Read More**

From Genesis to Reality: Decoding the AI Revolution

Institute for Systems Biology (ISB)

Former Microsoft Chief Research and Strategy Officer Craig Mundie and ISB President Dr. Jim Heath *(pictured)* engaged in a timely, topical discussion at Town Hall Seattle focusing on the rapidly evolving landscape of AI and its wide-ranging implications. Specifically, they discussed AI's rapid evolution, ethical considerations, and potential to revolutionize science and society. **Read More**

Voices from the Bench and the Bedside

Pacific Northwest Research Institute (PNRI)

What does it take to unravel the mysteries of rare diseases? This episode of PNRI Science: Rare Disease, Real Progress spotlights the people doing just that—scientists, clinicians, and students working at the front lines of discovery. Recorded live at PNRI's 2025 Rare Disease Day Symposium, this episode captures candid reflections from researchers and medical professionals across career stages. **Read More**

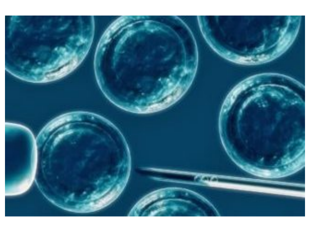
Breakthrough Dravet Syndrome Gene Therapy in Mice Brings New Hope to Families

Allen Institute

In a groundbreaking advancement for families grappling with the challenges of Dravet syndrome, a rare and life-altering form of epilepsy, scientists have developed a new gene replacement therapy in mice that could lead to more effective treatments in humans. The new therapy alleviated symptoms and led to long-term recovery without toxicity, side effects, and death. **Read More**

Allen Institute Launches CellScapes Initiative

Allen Institute



The Allen Institute announced the launch of CellScapes, a bold new research initiative aimed at revolutionizing how scientists understand and predict the behavior of human cells as they work together to build tissues and organs. The goal: to uncover the rules and principles of how cells cooperate to make decisions in the body and provide scientists with the tools to predict—and even design—how cells behave together in health and disease. **Read More**

Scientists Test Real-Time View of Brain's Waste Removal

UW Medicine

A new device that monitors the waste-removal system of the brain may help to prevent Alzheimer's and other neurological diseases, according to a study published in *Nature Biomedical Engineering*. By measuring the brain's neural activity, blood vessels, and tissues, researchers led by Dr. Jeffrey Iliff *(pictured)* found that they could monitor the brain's glymphatic system, which acts as a waste-removal and nutrient-delivery system. **Read More**

Allen Institute Opens Education Lab to Support and Inspire Next Generation of Scientists in Seattle and Beyond

Allen Institute

The Allen Institute has announced the grand opening of its state-of-the-art Education Lab. This custom-built 1327 square-foot learning space immerses students, educators, and scientists in authentic learning experiences offered by the Allen Institute's Education and Engagement Program and powered by the Allen Institute's pioneering open science and cutting-edge research. **Read More**

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Upcoming Events in Seattle

June 11 12:00 PM	**Illuminating the Dynamics of Tandem Repeat Expansions Using Long-Read Sequencing** Online
June 16 8:00 AM	**Open Science in Undergraduate Education Symposium** Allen Institute
June 19 - 21 8:00 AM	**4th International Symposium on Late Complications after Childhood Cancer** Bell Harbor International Conference Center
June 27 8:00 AM	**Dr. Rainer Storb Symposium** Fred Hutch
July 9 - 11 8:00 AM	**2025 Neuropixels and OpenScope Workshop** Allen Institute

View All Events | **Submit an Event**

Science Jobs in Seattle

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Institute for Systems Biology

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Fred Hutch

Postdoctoral Fellow, Fladeboe Lab
Seattle Children's Research Institute

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