

Publications of the Week

Niche-Derived Semaphorin 4A Safeguards Functional Identity of Myeloid-Biased Hematopoietic Stem Cells

First Authors: Dorsa Toghani and Sanika Gupte (*pictured, right*) | Senior Author: Lev Silberstein (*left*)
Nature Aging | Fred Hutch



In the bone marrow, myeloid-biased hematopoietic stem cells (myHSC) are indispensable for replenishment of myeloid cells and platelets during inflammatory response but, at the same time, become irreversibly damaged during inflammation and aging. Here researchers identify an extrinsic factor, Semaphorin 4A, which non-cell-autonomously confers myHSC resilience to inflammatory stress.

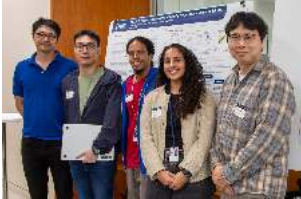
[Abstract](#) | [Press Release](#)

[View All Publications](#) ➔

Awards

Allen Institute Announces Inaugural Innovation Awards Winners

Allen Institute



The Allen Institute has announced the winners of its first-ever Innovation Awards, an internal grant mechanism designed to fund ambitious, high-impact projects that push the boundaries of science. Among the four winning projects is the PEARLS: Pooled Examination of Activity Regulators Linked to Stimuli project by Drs. Tim Wang, Bowen Tan, Adrien Stanley, Lara Scaria, and Dong-Wook Kim (*pictured, left to right*). [Read More](#)

Hypothalamic Gliosis and Genetic Risk As Early Indicators of Cardiometabolic Risk

UW Medicine



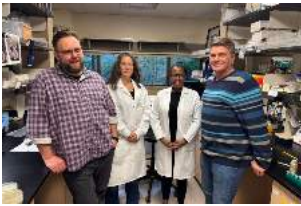
Dr. Dabin Yeum (*pictured*), a postdoctoral scholar in UW's Department of General Internal Medicine, has been awarded an American Heart Association Postdoctoral Fellowship, which targets early career scientists. Her project will investigate whether inflammation in the hypothalamus can help explain why some people are more likely to develop heart disease or diabetes later in life. [Read More](#)

[View All Awards](#) ➔

Local News

Some Antibodies Outmaneuver Germs from Sticking to Cells

UW Medicine



A recent study led by Drs. Justin Kollman, Kelli Hvorecny, Pearl Magala and Evgeni Sokurenko (*pictured, left to right*) at UW Medicine uncovered several new mechanisms by which antibodies block *E. coli* bacteria that cause urinary tract infections from attaching to bladder cells. Once *E. coli* bacteria get a strong grip, they can be difficult to flush out. [Read More](#)

Study Validates Split-Second Exam of Retinal Health

UW Medicine



Researchers led by Dr. Ram Sabesan (*pictured, right*) have validated an approach to measuring how rod photoreceptors, the cells in our eyes responsible for night vision, respond to light in living eyes. The approach might one day enable earlier detection of serious eye diseases like age-related macular degeneration. The findings reinforce the feasibility of a fledgling technology called optoretinography. [Read More](#)

Seattle's Alpenglow Moves 3D Microscope Tech from Lab to Clinic to Help Modernize Cancer Diagnostics

GeekWire



Seattle-based Alpenglow Biosciences announced a partnership with PathNet, a leading U.S. pathology laboratory, to help commercialize use of the startup's 3D microscope technology in clinical settings. The effort aims to modernize critical diagnostic tests for prostate and bladder cancers. Alpenglow, which spun out of UW in 2018, has developed tools for quickly creating multi-dimensional images from biological tissue samples and accurately analyzing the results. [Read More](#)

Researchers Begin Trial of Nasal Spray COVID-19 Vaccine

Kaiser Permanente Washington Health Research Institute (KPWHRI)



KPWHRI researchers led by Dr. Lisa Jackson (*pictured*) have begun a trial of the nasal spray COVID-19 vaccine. The vaccine contains molecules called protein antigens, which produce an immune response by mimicking a part of the virus. Administering the vaccine as a nasal spray offers the potential to create an additional layer of protection, known as mucosal immunity. [Read More](#)

Oncology Insights with Dr. Petros Grivas - Episode 5

Fred Hutch



In this episode of Fred Hutch podcast Oncology Insights, Dr. Petros Griva (*pictured*) and Dr. David Zhen discuss the latest advancements in gastrointestinal cancers, focusing on gastroesophageal and neuroendocrine cancers. They explore the exciting new therapies and clinical trials that are changing the landscape of treatment, the importance of collaboration with community oncology, and the role of genetic factors in cancer predisposition. [Read More](#)

New Global Partnership in Diabetes Research

UW Medicine



The UW Medicine Diabetes Institute (UWMDI) has formally established a research partnership with Steno Diabetes Center Copenhagen, one of the world's leading diabetes research and care institutions. "I'm thrilled to see this partnership come to life," said Dr. Petter Bjornstad (*pictured*), UW Professor of Metabolism, Endocrinology, and Nutrition and Director of the UWMDI. [Read More](#)

Dr. Tisha Wang Named Chair of the Department of Medicine

UW Medicine



Dr. Tisha Wang (*pictured*) will become the seventh chair of the UW Department of Medicine on June 1, 2026. She is currently Professor of Clinical Medicine in the Division of Pulmonary, Critical Care, and Sleep Medicine and Senior Executive Clinical Vice Chair in the Department of Medicine at the University of California Los Angeles. [Read More](#)

[View All Local News](#) ➔ | [Submit an Article](#) ➔

📅 Upcoming Events in Seattle

January 26
8:00 AM

Science on Tap
Ravenna Third Place - Cafe Arta

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

February 10
6:00 PM

Winter 2026 Nature and Health Community Dinner
Fremont Brewing

April 7
6:30 PM

UW Public Lectures: Interrogating the Epigenome to Reveal Pregnancy Risks in Moms with High Blood Pressure
Town Hall Seattle

[View All Events](#) ➔ | [Submit an Event](#) ➔

📁 Science Jobs in Seattle

Research Associate II
Allen Institute

Immunology Principal Research Associate
Vertex

Bioinformatics Analyst I, Spatial Multi-Omics and Integrative Analysis
Fred Hutch

Scientist/Scientist II, Translational Medicine
Jade Biosciences

Clinical Research Coordinator II
Seattle Children's

[View 56 Other Science Jobs](#) ➔ | [Submit a Job](#) ➔

ISSCR

STEMCELL
TECHNOLOGIES

NEW! FREE ON-DEMAND COURSE

Applying the ISSCR Standards for Research

[LEARN MORE ➔](#)

Submit your articles and events by reaching out to us at info@scienceinseattle.com.

BROUGHT TO YOU BY



STEMCELL Technologies
Products | Services

STEMCELL Science News
Free Weekly Updates on Your Field

The Stem Cell Podcast
Interviews and Updates
on Stem Cell Science