

Publications of the Week

Intranasal Replicon SARS-CoV-2 Vaccine Produces Protective Respiratory and Systemic Immunity and Prevents Viral Transmission

First Authors: Madeleine Jennewein and Michael Schultz | Senior Author: Emily Voigt (pictured)
Molecular Therapy | Access to Advanced Health Institute, Fred Hutch, and UW



While mRNA vaccines have been effective in combating SARS-CoV-2, the waning of vaccine-induced antibody responses and lack of vaccine-induced respiratory tract immunity contribute to ongoing infection and transmission. In this work, researchers compare and contrast intranasal and intramuscular administration of a SARS-CoV-2 replicon vaccine delivered by a nanostructured lipid carrier. [Abstract](#)

Drp1 Knockdown Aggravates Obesity-Induced Cardiac Dysfunction and Remodeling

First Authors: Dan Wu and Qingxun Hu | Senior Author: Wang Wang (pictured)
Mitochondrion | UW



Obesity is an independent risk factor for heart failure with preserved ejection fraction (HFpEF). Dynamin related protein 1 (Drp1) is a key regulator of mitochondrial morphology, bioenergetics, and quality control. The role of endogenous Drp1 in obesity induced HFpEF remains largely unknown. This study provides critical insights into how endogenous Drp1 plays a beneficial role in metabolic stress-induced HFpEF. [Abstract](#)

[View All Publications](#)

Awards

Joyce Wipf Rising Star Awards

UW Medicine



UW Medicine has announced the 2025 recipients of the Joyce Wipf Rising Star Awards, Drs. Sarah Leyde (pictured, right) and Elizabeth Schackmann (left). The Rising Star Awards were established in recognition of Dr. Joyce Wipf's legacy as a clinician educator scholar with trail-blazing innovations in medical education and training programs. [Read More](#)

Klingenstein Fellowship Award in Neuroscience

Klingenstein Philanthropies



Dr. Carl Schoonover (pictured, right) at the Allen Institute has received the Klingenstein Fellowship Award in Neuroscience. This award is among the nation's oldest and most esteemed fellowships for early career scientists conducting cutting-edge neuroscience research. Dr. Schoonover and his collaborators have pioneered a new way to capture how animals naturally learn about the world through continuous exploration and interaction with their surroundings. [Read More](#)

[View All Awards](#)

Local News

Nineteen Startups Graduate from Creative Destruction Lab's Latest Accelerator in Seattle

GeekWire



A new cohort of early stage companies recently graduated from Creative Destruction Lab, the nonprofit that runs a startup accelerator in Seattle. Nineteen startups completed the nine-month program, based at the University of Washington's Foster School of Business. Among the cohort are three Seattle-based computational health companies: MindMirror, ModernVivo, and Remmie Health. [Read More](#)

Virologist and HIV Expert Dr. Michael Emerman Retires

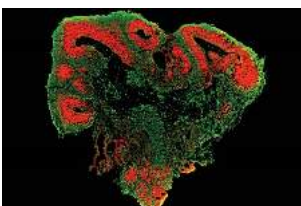
Fred Hutch



During his 36-year career at Fred Hutch, Dr. Michael Emerman (pictured) made fundamental discoveries about HIV, the retrovirus that causes AIDS. He and Fred Hutch evolutionary biologist Dr. Harmit Malik made a new field of research — paleovirology — which traces the effects of evolutionary battles with ancient pathogens that have shaped our modern, innate immune systems. [Read More](#)

Uncovering Insights into Brain Health: An Allen Institute and AARP Collaboration

Allen Institute



In observance of Brain Health Awareness Month, the Allen Institute presented a free virtual event, focused on broadening understanding around brain health. The townhall discussion, which included Dr. Ed Lein, Senior Investigator at the Allen Institute, alongside colleagues from the UW's Memory & Brain Wellness Center and the American Association of Retired Persons (AARP), delved into the latest scientific discoveries. [Read More](#)

Fred Hutch Leads New Vanguard Study for Cancer Screening Research Network

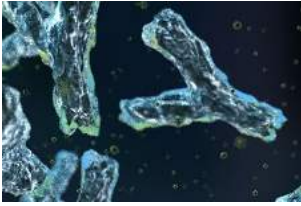
Fred Hutch



Fred Hutch is leading the newly launched Vanguard Study, a national study of a new type of blood test that screens for several different cancers called multi-cancer detection tests. Researchers will evaluate whether these blood tests will help people ages 45 to 75 find cancer early when it may be easier to treat. This is the first study of the Cancer Screening Research Network. [Read More](#)

Vanderbilt Selects Parse Biosciences GigaLab to Generate Atlas of Early Neutralizing Antibodies to Measles, Mumps, and Rubella

BioSpace



The Vanderbilt University Medical Center and Seattle-based Parse Biosciences announced a strategic collaboration to generate a single cell atlas focused on understanding the diversity of plasmablasts. Plasmablasts are early immune cell clonotypes critical in the formation of neutralizing antibodies. This effort aims to build the most comprehensive understanding of the formation of neutralizing antibodies for measles, mumps, and rubella. [Read More](#)

Can New Blood Tests Really Detect Cancer Early?

The Washington Post



For years, it has been one of the most tantalizing ideas in medicine: One day, a simple blood test will detect nascent cancers. New research led by Dr. Scott Ramsey (pictured) at Fred Hutch found that three years before a handful of cancer patients were diagnosed, some promising tests detected trace amounts of cancer genetic material floating in their blood, shed by tumors the people didn't yet know existed. [Read More](#)

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

Upcoming Events in Seattle

July 21 - 24 8:00 AM	Developing Open Neuroscience Teaching Tools Workshop Allen Institute
August 4 - 5 8:00 AM	Molecular Analysis Facility Characterization Workshop UW
August 4 - 7 8:00 AM	Teachstravaganza 2025 Allen Institute
August 14 4:30 PM	Life Science Washington Annual Summer Social 2025 118 East Blaine St.
September 5 6:00 PM	ORCA 2025 Banquet UW Center for Urban Horticulture

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

Science Jobs in Seattle

Scientist I, In Vitro Diagnostics InBios
Medical Laboratory Scientist II UW
Senior Associate Scientist, Gene Delivery & Editing Process Development Bristol Myers Squibb
Post-Doctoral Research Fellow, Cancer Genetics Fred Hutch
Senior Research Scientist GenScript

[View 71 Other Science Jobs](#) | [Submit a Job](#)

Free Templates and Checklists
for Scientific Presentations



REQUEST A COPY >

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