

Publications of the Week
Identification of Nonhuman Primate Hematopoietic Stem and Progenitor Cells

First Author: Stefan Radtke | Senior Author: Hans-Peter Kiem (pictured)
 Methods in Molecular Biology | Fred Hutch and UW



The preclinical development of hematopoietic stem cell gene therapy/editing and transplantation protocols is frequently performed in large animal models such as nonhuman primates (NHPs). This protocol describes a method to phenotypically characterize functionally distinct NHP hematopoietic stem and progenitor cell subsets within specimens or stem cell products from three different NHP species. [Abstract](#)

A Functional SNP Regulates E-Cadherin Expression by Dynamically Remodeling the 3D Structure of a Promoter-Associated Non-Coding RNA Transcript

First Author: Shrikant Sharma | Senior Author: Gabriele Varani (pictured)
 Nucleic Acids Research | UW



Transcription of E-cadherin, a tumor suppressor that plays critical roles in cell adhesion and the epithelial-mesenchymal transition, is regulated by a promoter-associated non-coding RNA (paRNA). The sense-oriented paRNA (S-paRNA) includes a functional C/A single nucleotide polymorphism (SNP). The authors report the 3D NMR structure of the 104-nucleotide domain of the S-paRNA that encompasses the SNP and the microRNA-binding site. [Abstract](#)

Dynamics of Phagocytosis Mediated by Phosphatidylserine

Author: Dazhi Vosseler (pictured)
 Biochemical Society Transactions | UW



Phagocytosis triggered by the phospholipid phosphatidylserine (PS) is key for the removal of apoptotic cells in development, tissue homeostasis, and infection. This review focusses on the receptors involved in PS-recognition, the signaling cascades that connect receptors to cytoskeletal remodeling required for phagocytosis, and recent progress in our understanding of how phagocytic cup formation is coordinated during PS-mediated phagocytosis. [Abstract](#)

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Awards
Dr. Larry Corey Receives Alexander Fleming Award

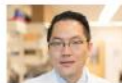
Fred Hutch



At a Washington, D.C. conference on infectious disease science, Dr. Anthony Fauci presented a lifetime achievement award to his friend and longtime collaborator Dr. Larry Corey (pictured), an internationally renowned virologist and former President and Director of Fred Hutch. The prestigious award was created in 1964 in honor of the late Dr. Alexander Fleming, the Scottish doctor and microbiologist who received the Nobel Prize in 1945 for his discovery of penicillin. [Read More](#)

Award Will Fund Research into New Metastatic Prostate Cancer Therapies

Fred Hutch



A three-year, \$750,000 grant from the San Antonio, Texas-based Robert J. Kieberg, Jr. and Helen C. Kieberg Foundation will allow Dr. John Lee (pictured) and Fred Hutch collaborators Drs. Pale Nelson and Roland Strong to pursue new cancer treatments, including immunotherapy. "The human immune system is a much more potent cancer fighter than any sort of treatment we could apply," Lee said. [Read More](#)

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Local News
Viral Shedding Ebbs over Time with HSV-1 Genital Infections

UW Medicine



People with a genital infection of the herpes simplex virus type 1 (HSV-1), which usually causes cold sores, frequently shed the virus in the first months after infection, raising the risk that they might spread the virus to sexual partners during this time. But the rate of shedding declines during the first year, researchers from the UW School of Medicine in Seattle have found. [Read More](#)

New Insights on Antibody Responses to Omicron Variants

UW Medicine



Knowing how well vaccination against one SARS-CoV-2 strain (with or without previous infection) counteracts infection with a different strain is a critical research question. The answers could guide strategies to continue to subdue the COVID pandemic, even as the coronavirus regains ground. Recent scientific studies in this area have been led by the labs of Dr. David Veesler at UW and Davide Cori of Humabs BioMed SA of Vir Biotechnology in Switzerland. [Read More](#)

Backing from 180 Investors Worldwide Shows Global Recognition of Washington Life Science Industry According to New Report

Life Science Washington



Life Science Washington, the state's life science industry association, has published its first annual "Investor Report," detailing the life science investment trends in Washington state over the last year. The report, compiled from Pitchbook, S&P Global Market Intelligence, and other publicly disclosed data, shows strong financial momentum for Washington life science companies with more than 180 investors worldwide making deals across the state in 2021 alone. [Read More](#)

Zymeworks and Jazz Pharmaceuticals Ink \$50M Deal With Potential for More

GeekWire



Zymeworks signed a deal with Jazz Pharmaceuticals to develop and commercialize Zymeworks' lead drug candidate, zanidatamab, which targets the cancer marker HER2. Zymeworks will receive an upfront payment of \$50 million and a second payment of \$325 million, at Jazz's option, following the release of topline data from an ongoing clinical trial. [Read More](#)

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Upcoming Events in Seattle

November 1 4:00 pm **UWPA General Assembly**
 Online

- November 3 - 4 **Cascadia 4.0**
12:00 pm University of Washington
- November 6 - 9 **Current Biology Seminar**
12:00 pm Peltan Auditorium and Online
- November 9 **2022 All-Chamber After Hours**
5:30 pm Embassy Suites Seattle
- November 10 **Washington State Medical Device Summit 2022**
12:00 pm Cascadia College

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Science Jobs in Seattle

Research Scientist

UW Department of Laboratory Medicine and Pathology

Clinical Laboratory Technician 2

UW Department of Medicine and Pathology

Scientist/Senior Scientist, Cell Line Engineering

Shape Therapeutics

Supervisor, Molecular Laboratory Operations

Adaptive Biotechnologies

Engineer III, Fluidics

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