

Publications of the Week

Cytosolic Delivery of Proteins by Cholesterol Tagging

First Author: Wanyi Tai | Senior Author: Xiaohu Gao *(pictured)*
Science Advances | UW



The authors report a unique concept—noncovalent cholesterol tagging—enabling virtually any compact proteins to permeate through the cell membrane, completely bypassing endocytosis. This simple plug-and-play platform greatly expands the biological target space and has the potential to transform basic biology studies and drug discovery. [Abstract](#)

KSHV Requires vCyclin to Overcome Replicative Senescence in Primary Human Lymphatic Endothelial Cells

First Author: Terri DiMaio | Senior Author: Michael Lagunoff *(pictured)*
PLOS Pathogens | UW



Investigators found that human dermal lymphatic endothelial cells (LECs) are more susceptible to Kaposi's Sarcoma Herpesvirus (KSHV) infection than their blood-specific endothelial cell counterparts, and maintain KSHV latency to higher levels during passage. Importantly, KSHV infection of human LECs, but not human blood endothelial cells promotes their continued proliferation beyond the first checkpoint of replicative senescence. [Abstract](#)

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Awards

\$6.75M in New Grants to Drive the Next Wave of Novel Cancer Therapies

The Paul G. Allen Frontiers Group



Seeking to ignite the next major breakthroughs to treat blood cancers, the Leukemia & Lymphoma Society, The Mark Foundation, and The Paul G. Allen Frontiers Group have announced more than \$6.75 million awarded to nine of the most exceptional scientists in the field. Among these scientists is Dr. Robert Bradley *(pictured)* from Fred Hutch who investigates myelodysplastic syndromes. [Read More](#)

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Local News

How to Precisely Edit Mitochondrial DNA

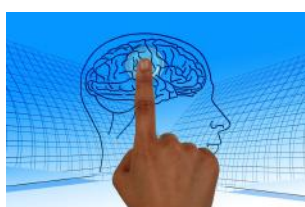
Howard Hughes Medical Institute



A new CRISPR-free tool has brought gene editing power to cells' second, smaller genome — the one in their mitochondria. It's the first precision gene editor for mitochondrial DNA, says Joseph Mougous *(pictured)*, a Howard Hughes Medical Institute Investigator at UW. The tool will make it easier for scientists to study basic mitochondrial biology and associated diseases. [Read More](#)

Seattle Researchers Team Up to Build Hi-Res Brain Map of Alzheimer's Disease

Allen Institute for Brain Science



If scientists understood how Alzheimer's disease starts, they might have a better handle on how to stop it. That's the premise behind a new \$40.5 million collaborative research center in Seattle to build high-resolution maps of Alzheimer's patients' brains and identify how their neurons and other brain cells differ from those of healthy people. [Read More](#)

Putting Genomics into Practice to Combat Common Diseases

UW Medicine



Several medical research institutions across the nation, including UW Medicine and its local partners, are joining forces, through a National Institutes of Health (NIH) effort, to evaluate the use of genomic information in guiding clinical care for people from a variety of backgrounds. The NIH announced a total of \$75 million in funding over the next five years for what will be called the Electronic Medical Records and Genomics (eMERGE) Genomic Risk Assessment and Management Network. [Read More](#)

After 20 Years, Wakefield Retires from HIV Vaccine Trials Network

Fred Hutch



Fond words and accolades are rolling in for Steven Wakefield *(pictured)*, who has retired from his position as External Relations Director for the HIV Vaccine Trials Network at Fred Hutch after 20 years of bridge-building between vaccine researchers and underserved communities in Seattle and around the globe. [Read More](#)

The Coronavirus Vaccine Timeline: The End in Sight?

The Daily, UW



As the global confirmed COVID-19 cases count passes 10 million and cases in Washington state continue to rise, uncertainty of the future plagues us all. How long until things can be normal again? Dr. Deborah Fuller *(pictured)* at UW, says the testing and manufacturing processes of a normal vaccine would typically take more than five years before it would be publically available. [Read More](#)

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Upcoming Events in Seattle

- July 15
12:00 PM

Storing and Managing Research Data in the 21st Century
Online
- July 16-17
8:00 AM

2020 Life Science Innovation Northwest
Online
- July 21
8:00 AM

Organization for Computational Neurosciences (OCNS) 2020
Online
- July 22
11:00 AM

UW Immunology Research Presents: Parasite Infection, Vaccinations and Allergies
Online
- July 21-23
9:00 AM

WIB-National Webinar: Growing Your Career and Personal Brand in Life Sciences and Biotech
Online

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Science Jobs in Seattle

- Assistant or Associate Professor, Oncology**
Fred Hutch
- Research Scientist IV, Coler Lab**
Seattle Children's
- Postdoctoral Research Associate, Long Lab**
Benaroya Research Institute at Virginia Mason
- Vice President, Cell Therapy Manufacturing**
Bristol Myers Squibb
- Clinical Laboratory Technician, PCR/Sequencing**
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