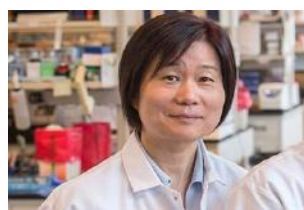


### Publications of the Week

## Modeling Human HSV Infection via a Vascularized Immune-Competent Skin-On-Chip Platform

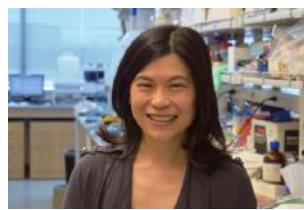
First Author: Sijie Sun | Senior Author: Jia Zhu (*pictured*)  
Nature Communications | UW and Fred Hutch



Herpes simplex virus (HSV) naturally infects skin and mucosal surfaces, causing lifelong recurrent disease worldwide, with no cure or vaccine. Biomimetic human tissue and organ platforms provide attractive alternatives over animal models to recapitulate human diseases. Combining prevascularization and microfluidic approaches, the authors present a vascularized, three-dimensional skin-on-chip that mimics human skin architecture and is competent to immune-cell and drug perfusion. [Abstract](#)

## Aptamer-Based Traceless Multiplexed Cell Isolation Systems

First Author: Emmeline Cheng | Senior Author: Suzie Pun (*pictured*)  
ACS Applied Materials & Interfaces | UW



Reported traceless cell isolation methods using engineered antigen-binding fragments or aptamers have been limited to processing a single cell type at a time. The authors utilized two aptamers along with their designated complementary strands to tracelessly isolate two cell types from a mixed cell population with one aptamer-labeling step and two sequential cell elution steps with reversal agents. [Abstract](#)

[View All Publications](#)

### Awards

## Sam Wasser Receives 2022 Lowell Thomas Award

UW Department of Biology



Dr. Sam Wasser (*pictured*), UW Biology Professor and Co-Executive Director of the Center for Environmental Forensic Science, was recently awarded the 2022 Lowell Thomas Award. Provided by the Explorers Club, the annual award is given thematically to a group of outstanding explorers to recognize excellence in domains or fields of exploration. [Read More](#)

## Drs. Vincenzo Cirulli and Laura Crisa Have Received the First State-Funded 2022-2023 ISCRM Team Award

UW Diabetes Institute



Drs. Vincenzo Cirulli (*pictured, left*), Laura Crisa (*right*), Hannele Ruohola-Baker, and Shiri Levy have received the first state-funded 2022-2023 Institute for Stem Cell and Regenerative Medicine (ISCRM) Team Award. Funding will allow the researchers to develop and validate a multidisciplinary approach to generate clinically applicable pancreatic tissue for transplant in diabetes treatment. [Read More](#)

[View All Awards](#)

### Local News

## Researchers Refine Experimental Gene Therapy for Herpes

Fred Hutch



Two years after scientists showed that an experimental gene therapy for herpes can knock out most latent infection in mice, new tests reveal that it also suppresses the amount of transmissible virus shed by the treated animals. It is encouraging news from the lab of Dr. Keith Jerome (*pictured*), whose laboratory studies aimed at curing herpes simplex virus infections have continued despite disruptions caused by the COVID-19 pandemic. [Read More](#)

## Renowned UW Bioengineer Suzie Pun Named Next MoES Institute Director

UW Molecular Engineering & Sciences Institute



Dr. Suzie Pun (*pictured*), Washington Research Professor of Bioengineering, has been named the new Director of the Molecular Engineering & Sciences (MoES) Institute, effective July 1, 2023. The current Director, Dr. Pat Stayton, will continue to serve until Dr. Pun's appointment begins. Dr. Pun brings a depth of academic leadership and industry experience and a vision for the future of MoES that will serve the Institute and the UW well. [Read More](#)

## Allen Institute Expands into New South Lake Union Life Sciences Building

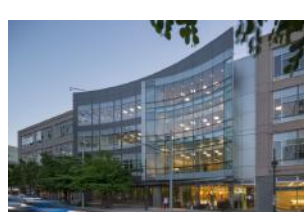
Puget Sound Business Journal



The life sciences sector continues to grow in the Puget Sound region despite a slowdown in venture capital funding in the first half of 2022. Dexter Yard is filling up with the Allen Institute as the latest tenant to lease space in the two-building project. Earlier this summer, Dexter Yard owner BioMed Realty said over 40% of the 500,000-square-foot project had been leased. [Read More](#)

## ISB Leading NCI Comprehensive Cancer Center to Study Sequential Targeted Inhibitors and Immunotherapies

Institute for Systems Biology



The National Cancer Institute (NCI) awarded the Institute for Systems Biology (ISB) a five-year, \$13 million grant to lead a collaborative cancer center and study sequential combinations of targeted inhibitors and immunotherapies. The program is designed to determine if the treatments yield greater patient benefit when administered in sequence rather than as monotherapies or as simultaneously administered combinations. [Read More](#)

## Allen Institute Aims to Map Whole Human Brain as Part of \$173M NIH Project

GeekWire



Seattle's Allen Institute will spearhead a project to create an atlas of the cells in the human brain as part of \$173 million in new funding from the US National Institutes of Health (NIH) awarded to the institute and its collaborators. The five-year project builds on the Allen Institute's previous endeavors mapping the location, identity and function of cells in the brain. [Read More](#)

## Patient Receives Region's 1<sup>st</sup> DCD Heart Transplant

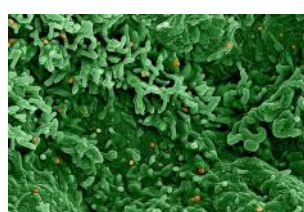
UW Medicine



On August 11<sup>th</sup>, LifeCenter Northwest, the Organ Procurement Organization for Washington, and UW Medicine's heart transplant team together facilitated the Pacific Northwest's first donation-after-circulatory-death (DCD) heart transplant. The patient, Ryan Stovall, 48, a resident of Beaver Creek, Oregon, is recovering well in Seattle. [Read More](#)

## Enrollees Sought for Trial of Drug to Treat Monkeypox

UW Medicine



UW Medicine researchers are recruiting participants for a Phase 3 clinical trial of a drug to treat the monkeypox virus. The drug, tecovirimat, is approved by the US Food and Drug Administration to treat smallpox. Investigators hope this study will establish whether the drug is also safe and effective for treating monkeypox. Monkeypox has caused an increasing number of infections in endemic countries since the virus was first identified in 1958. [Read More](#)

## Research from Cabernard Lab on Cell Fusion Published in *Communications Biology*

UW Department of Biology



New research from the lab of Dr. Clemens Cabernard (*pictured*) on cell fusion was recently published in *Communications Biology*. They artificially fused fly neural stem cells with differentiated brain cells in the intact fly brain. They then used live cell imaging to characterize the hybrid cell's behavior. They found that neural stem cell/brain cell hybrid cells also formed two separate spindles, one of which attached to the stem cell chromosomes, the other to the differentiated brain cell chromosomes. [Read More](#)

## COVID-19 Zaps Placenta's Immune Response, Study Finds

UW Medicine



If a woman contracts COVID-19 during her pregnancy, the infection, even if it's mild, damages the placenta's immune response to further infections, a UW Medicine-led study has found. "This is the largest study to date of placenta from women who had COVID-19 during their pregnancies," said Dr. Kristina Adams Waldorf, senior author and Professor of Obstetrics and Gynecology at the UW School of Medicine. [Read More](#)

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### Upcoming Events in Seattle

- October 3 - 4  
4:00 pm **VIP Forum with Merck**  
Life Science Washington Office
- October 6  
12:00 pm **Making Life Science Laboratories Sustainable**  
Online
- October 12  
4:00 pm **DeviceConnect: Modern Innovations in Diagnostics**  
Life Science Washington
- October 17 - 20  
12:30 pm **CytoData 2022**  
Allen Institute
- October 20  
4:30 pm **Washington State Life Science Summit 2022**  
Life Science Washington Office

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### Science Jobs in Seattle

- Scientist, Immunology**  
Seagen
- Research Associate I, Image-Based Assay Developer**  
Allen Institute
- Senior Quality Assurance Specialist, GMP**  
Zymeworks
- Assistant Professor, Molecular, Cellular and/or Structural Biology**  
Fred Hutch
- Bioinformatics Postdoctoral Research Associate**  
Benaroya Research Institute at Virginia Mason

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