

### Publications of the Week

## Liver-Humanized NSG-PiZ Mice Support the Study of Chronic Hepatitis B Virus Infection and Antiviral Therapies

First Author: Rossana Colón-Thillet | Senior Author: Keith Jerome (*pictured*)  
Microbiology Spectrum | Fred Hutch and UW



Liver-humanized mouse models have been developed that are permissive to hepatitis B virus (HBV) infection and replication. Unfortunately, these models can be difficult to establish and are expensive commercially, which has limited their academic use. As an alternative mouse model to study HBV, the authors evaluated liver-humanized NSG-PiZ mice and showed that they are fully permissive to HBV.

[Abstract](#)

## Distinct Immune Responses Associated with Vaccination Status and Protection Outcomes After Malaria Challenge

First Author: Damian Oyong | Senior Author: Kenneth Stuart (*pictured*)  
PLoS Pathogens | Seattle Children's Research Institute and Fred Hutch



Understanding immune mechanisms that mediate malaria protection is critical for improving vaccine development. The authors demonstrate that vaccine-induced immune response is heterogenous between protected and non-protected vaccinees and that induced-malaria protection by *Plasmodium falciparum* sporozoites is associated with early and rapid changes in interferon, natural killer cell, and adaptive immune responses. [Abstract](#)

[View All Publications](#)

### Awards

## Valerie Daggett Receives the University Faculty Lecture Award

UW Department of Bioengineering



Dr. Valerie Daggett (*pictured*), UW Professor of Bioengineering, received the 2023 University Faculty Lecture Award. The distinction honors current or emeriti faculty whose research, scholarship, or art has been widely recognized by their peers and had a substantial impact on their profession, on the research or performance of others, and perhaps on society as a whole. [Read More](#)

## Chair of Medicine Scholars Awards

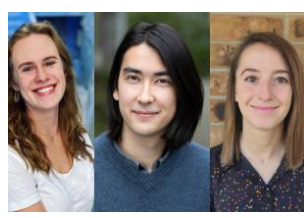
UW Medicine



The Chair of Medicine Scholars Awards, initiated in 2013, are awarded annually to meritorious UW Department of Medicine trainees to foster their transition to the roles of physician-scientist and principal investigator. This year's recipients include Drs. Amanda Casto (*pictured*), Helen Jack, Jason Simmons, and Tessa Steel. [Read More](#)

## Three BioE Students Receive Prestigious Fellowships

UW Department of Bioengineering (BioE)



UW Bioengineering PhD students Ryan Resmeyer (*pictured, center*), Murial Ross (*left*), and Ioana Veras-Tobos (*right*) are recipients of the National Science Foundation (NSF) Graduate Research Fellowships. The fellowship recognizes and supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines who are pursuing research-based master's and doctoral degrees at accredited US institutions. [Read More](#)

## Diversity Academic Development Scholarship Awards

UW Medicine



The Diversity Academic Development Scholar Award assists highly qualified and meritorious trainees in their transition to the roles of clinician-scholar, physician-scientist, research-scientist, and principal investigator as newly appointed Assistant Professors. The 2023 recipients include Drs. Tara Reid (*pictured*), Massiel Stolla, and Ana Valencia. [Read More](#)

## 2023 Fialkow Award

UW Medicine



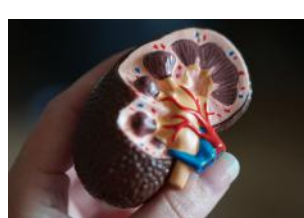
Congratulations to Dr. Rachel Bender Ignacio (*pictured*), Assistant Professor in Allergy and Infectious Diseases, who is the 2023 recipient of the Fialkow Award. The Fialkow Award honors the late UW Dean of Medicine and Chair of Medicine Dr. Philip Fialkow and his wife, the late Helen Fialkow, and recognizes the outstanding achievements of junior faculty in medicine in research, teaching, clinical work, and academic citizenship. [Read More](#)

[View All Awards](#)

### Local News

## Biomarkers May Help Identify Treatment of Acute Kidney Injury

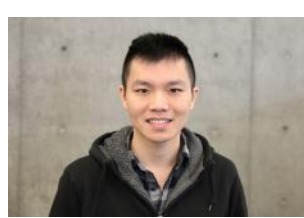
UW Medicine



Hospital inpatients who develop an acute kidney injury (AKI) generally fare poorly after being discharged, and have few options for effective treatment. Medication, sepsis, and inadequate blood supply to the kidneys are all potential causes of this injury. A UW Medicine-led study published recently in the *American Journal of Kidney Diseases* suggests that new tests might improve this narrative. [Read More](#)

## A Huge Advantage for the Immunology Field

Institute for Systems Biology via Youtube



Drs. William Chour (*pictured*) and Jongchan Choi have created a quicker, more effective method of identifying antigen-specific CD8<sup>+</sup> T cells. Their findings allow researchers to rapidly and accurately analyze peptide-based T cell responses across many areas of study, including autoimmunity, cancer, and infectious disease. Drs. Chour and Choi discussed their work with Institute for Systems Biology President Dr. Jim Heath. [Read More](#)

## Researchers Rush to Find Cause of Contagious Cancer in Pacific Northwest Clams

The Seattle Times via Pacific Northwest Research Institute



A leukemia-like contagious cancer called disseminated neoplasia, found in dozens of shellfish species around the globe, was first discovered in Salish Sea cockles during a 2018 health screening. Now researchers are hauling hundreds of cockles into a Seattle lab in hopes to probe mysteries that might explain a decline in population that has been reported by tribal members, and offer means of preserving the species. [Read More](#)

## New Study Shows Allergic Asthma Provides Intrinsic Protection Against Severe COVID-19

Benaroya Research Institute



Researchers from Benaroya Research Institute, UW, and Seattle Children's Research Institute have discovered why individuals with allergic asthma may have reduced susceptibility to COVID-19, and an important mechanism by which allergic inflammation diminishes SARS-CoV-2 infection, despite well-known susceptibilities to other respiratory viral infections. [Read More](#)

## Fred Hutch Pioneer Dr. Beverly Torok-Storb Dies

Fred Hutch



World-renowned scientist, Dr. Beverly Torok-Storb (*pictured*), a pioneering stem cell biologist who worked at Fred Hutch for 45 years, died Friday, May 5, at her home in Seattle. She was 75. A Professor in Fred Hutch's Translational Science and Therapeutics Division, Dr. Torok-Storb's contributions to science and to education in science, technology, engineering, and math, or STEM, were substantial and far-reaching. [Read More](#)

## Allen Institute Takes On a Supporting Role in Experiment to Grow Stem Cells in Spaces

GeekWire



Space: The final frontier ... for stem cells? Seattle's Allen Institute for Cell Science says cells from its collection are going into space for the first time on a private mission to the International Space Station. The Allen Cell Collection's assortment of human induced pluripotent stem cells, or iPSCs, will be the focus for one of more than 20 experiments being sent into orbit on a flight organized by Texas-based Axiom Space. [Read More](#)

[View All Articles](#) | [Submit an Article](#)

### Upcoming Events in Seattle

June 7 12:00 pm	<b>Biostatistics Seminar Series</b> Online
June 7 4:00 pm	<b>Live at the Laser Dome: KEXP DJ in Residence</b> Pacific Science Center
June 10 7:00 pm	<b>Brewology</b> Pacific Science Center
June 14 6:30 pm	<b>Seattle AWIS – Annual Awards Banquet</b> UW Center for Urban Horticulture
June 16 7:30 pm	<b>Leroy Hood and Nathan Price with Jim Heath</b> The Great Hall

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

### Science Jobs in Seattle

- Associate Scientist**  
Just – Evotec Biologics
- Research Associate I, Lab Animal Services**  
Allen Institute
- Research Technician I**  
Fred Hutch
- Director, Research Project Management**  
Seagen
- Associate Director, Business Development**  
Zymeworks

[View 55 Other Science Jobs](#) | [Submit a Job](#)



Submit your articles and events by reaching out to us at [info@scienceinseattle.com](mailto: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