

Publications of the Week

An Invariant Protein That Co-Localizes with VAR2CSA on *Plasmodium falciparum*-Infected Red Cells Binds to Chondroitin Sulfate A

First Author: Gladys Keitany | Senior Author: Patrick Duffy (pictured)
The Journal of Infectious Disease | Center for Infectious Disease Research, UW Medical Center, and UW



Plasmodium falciparum-infected red blood cells bind and sequester in deep vascular beds, causing malaria-related disease and death. In pregnant women, VAR2CSA binds to chondroitin sulfate A and mediates placental sequestration, making it the major placental malaria (PM) vaccine target. The authors characterize an invariant protein associated with PM called *Plasmodium falciparum* chondroitin sulfate A ligand. [Abstract](#)

Whole-Genome Sequencing Association Analyses of Stroke and Its Subtypes in Ancestrally Diverse Populations from Trans-Omics for Precision Medicine Project

First Author: Yao Hu | Senior Author: Charles Kooperberg (pictured)
Stroke | Fred Hutch and UW



Stroke is the leading cause of death and long-term disability worldwide. Using whole-genome sequencing in ancestrally diverse populations from the Trans-Omics for Precision Medicine Program, the authors aimed to identify novel variants, especially low-frequency or ancestry-specific variants, associated with all stroke, ischemic stroke and its subtypes, and hemorrhagic stroke and its subtypes. [Abstract](#)

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Awards

UWMDI Investigator Dr. Karin Bornfeldt Awarded the George Lyman Duff Memorial Lectureship at the American Heart Association's Scientific Sessions

UW Medicine Diabetes Institute (UWMDI)



Dr. Karin Bornfeldt (pictured), Edwin L. Bierman Professor of Medicine, was awarded the George Lyman Duff Memorial Lectureship at the American Heart Association's Scientific Sessions. The lectureship was established in 1956 by the Society for the Study of Arteriosclerosis in memory of Dr. Duff, a founding member and past president of the society. Past award recipients from the UW include Edwin Bierman (1991), Russell Ross (1980) and John Glomset (1979). [Read More](#)

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Local News

Single-Dose HPV Vaccine Highly Effective, Researchers Say

UW Medicine



A randomized controlled trial of 2,275 women in Kenya showed that a single dose of the human papillomavirus (HPV) vaccine was highly effective. The current standard for women is a three-dose regimen. "The single-dose vaccine was highly effective at 18 months for HPV vaccination," said Ruanne Barnabas (pictured), principal investigator of the trial and a Professor of Global Health at the UW School of Medicine. [Read More](#)

Deep Learning Reveals How Proteins Interact

Institute for Protein Design



A team led by scientists in Dr. David Baker's (pictured) lab has combined recent advances in evolutionary analysis and deep learning to build three-dimensional models of how most proteins in eukaryotes interact. This breakthrough has significant implications for understanding the biochemical processes that are common to all animals, plants, and fungi. [Read More](#)

The Mission of a Lifetime: State to Use Dr. Sihoun Hahn's Newborn Screening Test for Wilson Disease

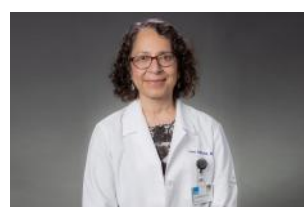
Seattle Children's



After more than 30 years studying Wilson disease, Dr. Sihoun Hahn's (pictured) newborn screening test for this rare genetic condition will be trialed in a pilot study by the Washington State Department of Health by the end of the year. If the study is successful, Dr. Hahn's test could soon be used to diagnose infants across the country with this life-threatening, but easily treated, disease. [Read More](#)

Monoclonal Antibodies and COVID-19: Insight From an Infectious Disease Expert

Benaroya Research Institute (BRI) at Virginia Mason



Monoclonal antibodies have been getting a lot of attention as a treatment for COVID-19. Monoclonal antibody infusion centers for COVID-19 patients are opening at Virginia Mason and across the country. But what exactly are monoclonal antibodies? How do they work and who needs them? Dr. Uma Malhotra (pictured), an infectious disease physician at Virginia Mason and BRI researcher, provides insight. [Read More](#)

Reimagine: Your Immune System Event Generates \$60,000 to Fuel Critical ISB Research

Institute for Systems Biology (ISB)



More than 300 people registered for Reimagine: Your Immune System, ISB's annual virtual fundraiser. The main event of the evening was a robust conversation between ISB President Dr. Jim Heath (pictured), Nobel laureate Dr. David Baltimore, and immunology expert Dr. Mark Davis. Thanks to a generous \$20,000 match from ISB board members, the event was a fundraising success. To date, the evening generated \$60,000 in unrestricted giving. [Read More](#)

Seattle Children's Research Division: Celebrating 15 Years of Innovation

Seattle Children's



For the past 15 years, Seattle Children's Research Division has been at the forefront of breakthrough innovations. From new drugs to treat cystic fibrosis, to first-in-the-nation use of laser ablation for epilepsy and brain tumors to remove unwanted cells, the research division is advancing our mission to provide hope, care and cures to help every child live the healthiest and most fulfilling life possible. [Read More](#)

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 **Upcoming Events in Seattle**

- November 30 **Science Says**
2:00 PM Online
- December 3 **UW Biology Grad Seminar: Joshua Swore & Carlos Segura**
12:00 PM Online
- December 4 **Healthy for the Holidays**
10:00 AM Online
- December 7 **Allen Institute 2021 Showcase Symposium**
9:00 AM Online
- December 7 **Variant Effects Seminar Series**
3:00 PM Online

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 **Science Jobs in Seattle**

Senior Manager, New Production Introduction
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A-Alpha Bio

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Systemimmune

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