

Publications of the Week

Hypoxia-Induced Mitochondrial Stress Granules

First Author: Chun-Ling Sun | Senior Author: C. Michael Crowder *(pictured)*
Cell Death & Disease | UW



While examining hypoxia-induced mitochondrial protein aggregation in *C. elegans*, investigators found that sublethal hypoxia, sodium azide, or heat shock-induced abundant ethidium bromide staining mitochondrial granules that preceded evidence of protein aggregation. Genetic manipulations that reduce cellular and organismal hypoxic death block the formation of these mitochondrial stress granules. [Abstract](#)

Factors Associated with Recurrent Appendicitis After Successful Treatment with Antibiotics

Author: David Flum *(pictured)*
British Journal of Surgery | UW



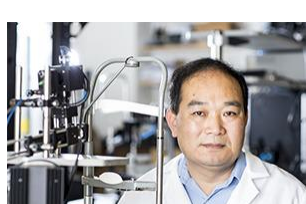
This cohort study, using data from the Comparison of Outcomes of Antibiotic Drugs and Appendectomy trial, examined patients treated with antibiotics who did not undergo appendectomy in the first 30 days. Patients who had appendectomy between 30 days and one year were compared with those who did not. Marginalized logistic regression models were used to calculate adjusted risk differences to estimate the association between baseline patient factors and the risk of undergoing an appendectomy between 30 days and one year. [Abstract](#)

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Awards

Ruikang Wang Is 2023 UW Medicine Inventor of the Year

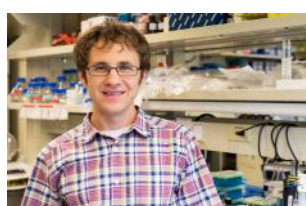
UW



Dr. Ruikang (Ricky) Wang *(pictured)*, UW Professor of Bioengineering and Ophthalmology, received the 2023 UW Medicine Inventor of the Year. The Award recognizes outstanding UW scientists whose inventions have had a major impact on both human health and our local economy. His laboratory is responsible for the invention of optical coherence tomography angiography, an imaging technique capable of 3D imaging of blood flow within microcirculatory tissue beds *in vivo*. [Read More](#)

New Members Elected to Washington State Academy of Sciences

Washington State Academy of Sciences



The Washington State Academy of Sciences has elected 29 new members in recognition of their outstanding record of scientific and technical achievement, and their willingness to work on behalf of the Academy to bring the best available science to bear on issues within the state of Washington. This includes Dr. Jesse Bloom *(pictured)*, who was elected for his contributions to our understanding of viral evolution and how mutations shape a pathogen's ability to infect and spread. [Read More](#)

Local News

KPWHRI Research Highlighted at AcademyHealth's Annual Research Meeting

Kaiser Permanente Washington Health Research Institute



Kaiser Permanente Washington Health Research Institute (KPWHRI) had strong participation at this year's Academy Health Annual Research Meeting, which was held in Seattle. The meeting brings together stakeholders working in health research, health care, and policy to share ongoing work to improve health systems, including Dr. Michael Parchman *(pictured)* who participated in a workshop on the essentials of embedded pragmatic clinical trials. [Read More](#)

New Study Provides Insight into the Nuance of Long COVID

The Daily



A study published this spring provides valuable insight into how the presentation of long-term COVID-19 symptoms change over time. The study looked at 5,963 patients, 2,000 of whom were King County residents participating through the UW School of Medicine. Within this population, 4,504 tested positive and 1,459 tested negative. According to senior author Dr. Kari Stephens *(pictured)*, the study will aid providers in the process of figuring out how to best treat long COVID-19. [Read More](#)

The Bacteria and Microbes in Your Gut Can Affect Your Body and Mental Health

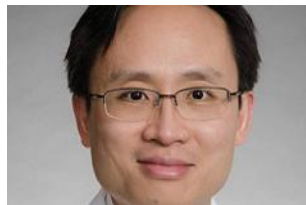
Salon



The human body is a complex organism, made up of trillions of cells. But not all of them are human — about half of them are fungi, microbes and bacteria. Scientists are starting to understand how and why these communities — referred to as microbiomes — are crucial to the functioning of various body systems. In this episode of The Conversation Weekly, Salon spoke to three experts who study the gut microbiome, including Dr. Chris Damman *(pictured)*, a Gastroenterologist and Clinical Associate Professor at the UW. [Read More](#)

In Historic Procedure, Donor Liver Protects Heart Transplant

UW Medicine



Doctors in Seattle are reporting a history-making case in which a patient received two donor organs, a liver and a heart, to prevent the extremely high likelihood that her body would reject a donor heart transplanted alone. In doing so, they successfully tested the concept that a donor liver can confer robust immunoprotection on a subsequent heart transplant. The dual-organ recipient, Adriana Rodriguez, 31, of Bellingham, Washington, has recovered well since the January 14, 2023, procedures, said Dr. Shin Lin *(pictured)*, a cardiologist at the UW Medicine Heart Institute. [Read More](#)

Accelerating Drug Development with AI-Enabled 3D Spatial Biology

Pharma's Almanac



As drug developers experience increased pressures to rapidly and efficiently develop new medicines to address a wide range of unmet medical needs, pathology remains an essential activity in understanding the safety and efficacy of drugs, but it is inherently limited by manual methods, analog 2D analysis, and subjective interpretation. To overcome these limitations and transform pathology to better meet the needs of drug developers, Alpenglow Biosciences, founded by Dr. Nick Reder *(pictured)* is pioneering 3D spatial biology, which combines the company's unique imaging technology with cloud computing and AI analysis. [Read More](#)

Neurogene and Neoleukin Announce Definitive Merger Agreement

Neurolinkin



Neurogene, a clinical-stage company founded to bring life-changing genetic medicines to patients and families affected by rare neurological diseases, and Neoleukin Therapeutics announced that they have entered into a definitive merger agreement to combine the companies in an all-stock transaction. The combined company will focus on advancing Neurogene's pipeline of differentiated genetic medicines, including NGN-401, a clinical-stage product for Rett syndrome, which uses novel gene regulation technology for a potential best-in-class profile. [Read More](#)

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📅 Upcoming Events in Seattle

Jul 20 - Aug 3 8:00am	Summer Workshop on the Dynamic Brain 2023 Allen Institute
July 24 8:00am	Global Oncology Lecture Series Online
July 26 5:30	Summer Nights Happy Hour Pacific Science Center
July 29 9:00 am	2023 Kidney Cancer Patient and Caregiver Education Symposium Fred Hutch
August 5 10:00 am	Free Brain Health and Community Resource Fair Alzheimer's Disease Research Group

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🏢 Science Jobs in Seattle

- Senior Research Associate, Biodistribution of AAVs for Parkinson's Disease**
Allen Institute
- Research Technician II-III**
Benaroya Research Institute
- Lab Services Coordinator**
Institute for Systems Biology
- Research Associate, Analytical Biology**
Alta Sciences
- Research Associate, Genomic Assays**
Tune Therapeutics

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