



Publications of the Week

Interleukin-4 Downregulates Transcription Factor BCL6 to Promote Memory B Cell Selection in Germinal Centers

First Author: Laila Shehata | Senior Author: Marion Pepper *(pictured)*
Immunity | Seattle Children's Research Institute and UW



Germinal center (GC)-derived memory B cells (MBCs) are critical for humoral immunity. Researchers demonstrate that both increasing IL-4 bioavailability or limiting IL-4 signaling disrupted MBC selection stringency. In this way, IL-4 control of BCL6 expression serves as a tunable switch within the GC to tightly regulate MBC selection and affinity maturation. [Abstract](#)

Parabrachial Calca Neurons Drive Nociceptivity

First Author: Logan Condon | Senior Author: Richard Palmiter *(pictured)*
Cell Reports | Howard Hughes Medical Institut and UW



Pain that persists beyond the time required for tissue healing and pain that arises in the absence of tissue injury, collectively referred to as nociceptivity, are poorly understood phenomena mediated by plasticity within the central nervous system. Here, researchers demonstrate that activation of *Calca* neurons is necessary for the manifestation and maintenance of chronic pain. [Abstract](#) | [Press Release](#)

Distributed X Chromosome Inactivation in Brain Circuitry Is Associated with X-linked Disease Penetrance of Behavior

First Author: Eric Szelenyi *(pictured)* | Senior Author: Pavel Osten
Cell Reports | Allen Institute for Brain Science



The precise anatomical degree of brain X chromosome inactivation (XCI) that is sufficient to alter X-linked disorders in females is unclear. These results define a model of X-linked disease penetrance in females whereby distributed XCI among single cells populating brain circuitries can regulate the behavioral penetrance of an X-linked mutation. [Abstract](#) | [Press Release](#)

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Awards

Leah Haseley Receives Marvin Turck Outstanding Teaching Award

UW Medicine



Dr. Leah Haseley *(pictured)*, a Clinical Professor of Nephrology, is this year's recipient of the Marvin Turck Outstanding Teaching Award. This is a career achievement award to honor individuals whose long-term contributions have defined departmental standards for patient care and teaching and made the UW an outstanding educational institution. [Read More](#)

ITHS Announces 2024 Pilot Awardees

Institute of Translational Health Sciences(ITHS)



ITHS has announced the 2024 Pilot Award recipients. The Pilot program is designed to inspire innovative and collaborative research aimed at improving overall human health. This year, Dr. Princess Imoukhuede and Dr. Cheri Fang *(pictured)* has received the Early-Stage Product Development Award for a project entitled "A blood test for preeclampsia prediction." [Read More](#)

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Local News

"How to Keep on Top of New Technologies For Your Research" Featuring Dr. Caroline Hookway

Lab Coats & Life Podcast



Drs. Nicole Quinn and Arun Sharma chat with Dr. Caroline Hookway *(pictured)*, a Scientist at the Allen Institute for Cell Science, who specializes in live-cell imaging. She talks about how to choose the right technology to answer scientific questions, strategies to ensure quality and reproducibility, and overcoming barriers to adopting new technologies. [Read More](#)

Mutant's Partner in Crime Could Be Target for Future Cancer Therapy

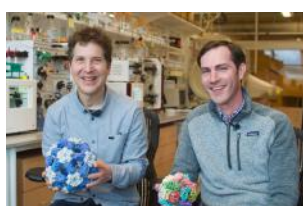
Fred Hutch



A research team from Fred Hutch co-led by Dr. Robert Bradley *(pictured)* described a novel factor that abets a cancer-promoting mutant in skewing a critical biological process called RNA splicing. They found that deleting the new factor instead of the mutant shifts abnormal RNA splicing patterns back toward normal. Finding a new splicing factor is very uncommon. [Read More](#)

The UW's Institute for Protein Design Keeps Boosting Startups, Fueling AI-Powered Science

GeekWire



UW's Institute for Protein Design is on a streak. New studies, companies, and spinouts are emerging at a rapid clip from the research hub, propelled by advances in artificial intelligence. The institute, headed by Dr. David Baker *(pictured, left)*, works with researchers like Dr. Neil King *(right)* to create new tools like a protein structure prediction and design tool called RoseTTAFold All-Atom. [Read More](#)

My Digital Gut: Making Nutrition and Healthcare Personalized, Predictive, and Preventive

Institute for Systems Biology



The human microbiome – the trillions of microbial cells that live on and in our bodies – is unique to everyone. ISB Associate Professor Dr. Sean Gibbons *(pictured)* delivered a Research Roundtable presentation and highlighted human gut microbiome research being conducted in his lab, including the development of a new tool called My Digital Gut. [Read More](#)

Scientists Solve Chemical Mystery at the Interface of Biology and Technology

UW News



Researchers who want to bridge the divide between biology and technology spend a lot of time thinking about translating between the two different "languages" of those realms. "Our digital technology operates through a series of electronic on-off switches that control the flow of current and voltage," said Dr. Rajiv Giridharagopal *(pictured)*, a research scientist at the UW. [Read More](#)

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Interesting Articles

Funding Available for Community-Led HIV Research in Washington State

The Center for AIDS Research



The Office of Community Engagement (OCE) at the UW/Fred Hutch Center for AIDS Research has announced the inaugural Stephau Elite Wallace Community Investigator Awards competition. The purpose of the Wallace Awards is to grow capacity for community-led HIV research by providing funding, mentoring, and educational support for community leaders. [Read More](#)

Washington Research Foundation Accepting Applications for Next Cohort of WRF Postdoctoral Fellows

Washington Research Foundation (WRF)



WRF is accepting applications for WRF Postdoctoral Fellowships to begin in 2025. Up to 12 Fellows will be selected to carry out research projects of their own design that have the potential for significant real-world public impact. Fellows receive three years of salary, benefits and research expense support as they carry out transformative research in the natural sciences and engineering-related fields at nonprofit research institutions in Washington state. [Read More](#)

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Upcoming Events in Seattle

May 9 9:00 AM	Systems Biology of Aging Virtual Workshop Online
May 9 5:30 PM	Activator Demo Day 400 Dexter Ave N.
May 22 12:00 PM	PNRI's Science Matters Seminar: Advancing Diagnostics in Rare Diseases: Multiomics Approaches and Innovations in Sweden Online
June 11 9:00 AM	Human and Non-Human Primate Brain Atlases and Tools Online
June 25 8:00 AM	7th TERMIS World Congress Seattle Convention Center

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Science Jobs in Seattle

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