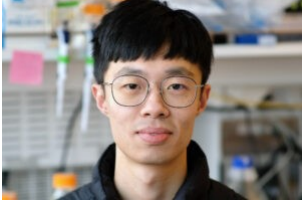


Publications of the Week

Bottom-Up Design of Ca²⁺ Channels from Defined Selectivity Filter Geometry

First Author: Yulai Liu (*pictured*) | Senior Author: David Baker
Nature | Institute for Protein Design and UW



Native ion channels play key roles in biological systems, and engineered versions are widely used as chemogenetic tools and in sensing devices. Here, researchers describe a bottom-up RFdiffusion-based approach to construct Ca²⁺ channels from defined selectivity filter residue geometries, and use this approach to design symmetric oligomeric channels with Ca²⁺ selectivity filters.

[Abstract](#) | [Press Release](#)

Multi-Omic Profiling Reveals Age-Related Immune Dynamics in Healthy Adults

First Authors: Qiuyu Gong and Mehul Sharma | Senior Author: Claire Gustafson (*pictured, right*)
Nature | Benaroya Research Institute and the Allen Institute



The generation and maintenance of immunity is a dynamic process that is dependent on age. Here, to better understand its progression, researchers profiled peripheral immunity in more than 300 healthy adults (25 to 90 years of age) using single-cell RNA sequencing, proteomics, and flow cytometry, following 96 adults longitudinally across two years with seasonal influenza vaccination.

[Abstract](#) | [Press Release](#)

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Awards

Washington Research Foundation Awards \$5.2M to Develop Therapeutics for First-In-Human Studies at Fred Hutch and Seattle Children's

Washington Research Foundation



Washington Research Foundation has awarded a \$5.2 million grant to Fred Hutch for a collaboration with Seattle Children's to develop a comprehensive program to enable clinical trials of innovative therapeutics invented at the two research institutions. The new program is led by Dr. Folashade Otegbeye (*pictured*) at Fred Hutch and Dr. Mignon Loh at Seattle Children's.

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2025 Alan Chait Awards for Excellence in Mentorship

UW Medicine



Drs. Radhika Narla (*pictured*) and Joshua Thaler are the research recipients of the 2025 Alan Chait Award for Excellence in Mentoring. Honoring Dr. Chait's two passions—teaching in the clinical setting and providing mentorship for trainees in the research setting—this award recognizes faculty members who have demonstrated an outstanding commitment to mentorship, teaching, and professionalism for trainees.

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Allen Institute Announces 2025 Next Generation Leaders

Allen Institute



The Allen Institute's 2025 Next Generation Leaders (NGL) cohort features eight talented researchers exploring the frontiers of bioscience and pursuing insights into biology with the potential to advance human health. Among the eight awardees is Dr. Yapeng Su (*pictured*) from Fred Hutch. The NGL program began in 2014 and highlights the vital contributions of early-career researchers to the field of science.

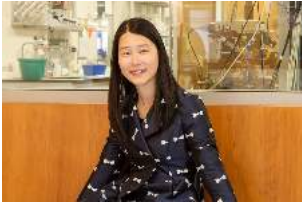
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Local News

Making Connections

Allen Institute



Neurons don't work alone. They cluster into cell types, forming intricate networks where collaboration, not isolation, allows us to think, feel, and live. It's a principle that Dr. Yiliu Wang (*pictured*) appreciates not only in her research, but in the very structure of her Shanahan Fellowship experience at the Allen Institute. At the Allen Institute, Dr. Wang found a collaborative culture that mirrors the neural networks she studies.

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Fighting Thrombosis by Targeting von Willebrand Factor

UW Bioengineering



When you get a cut or other internal or external injury—any time a blood vessel is damaged—a protein known as von Willebrand factor (VWF) goes into action. Not all clots are welcome, however. UW Bioengineering researchers led by Dr. Gianluca Interlandi (*pictured*) identify ways of turning off the function of a blood protein under conditions that may encourage dangerous clots.

[Read More](#)

Machine Learning for Atrial Fibrillation Treatment That “Shows Its Work”

UW Bioengineering



A team from UW's Department of Bioengineering and Division of Cardiology published a new, machine learning-based approach for predicting the recurrence of atrial fibrillation in patients after they receive ablation treatment for the condition. The work appeared in *Nature Communications Medicine*. “Our approach creates an easily digestible visualization of why the AF might come back,” says Dr. Patrick Boyle (*pictured*), the study's co-lead.

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Innovation Fund Backs Exciting New Research

Benaroya Research Institute (BRI)



Dr. Allyson Byrd (*pictured*) is testing a database that enables scientists to use anonymized electronic health records to answer research questions thanks to a grant from BRI's Innovation Fund. The fund supports new research ideas and technologies. In partnership with Dr. Cate Speake, she'll explore how BRI can use this technology to answer important questions in immunology.

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Early-Career Scientist Lucy Li Advances Lupus Research at BRI

Benaroya Research Institute (BRI)

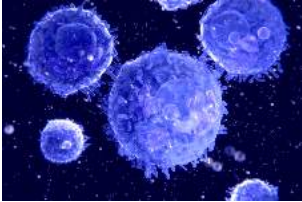


Graduate student Lucy Li (*pictured*) became interested in lupus because it affects different people in vastly different ways, from skin rashes to kidney problems to joint pain. Lupus can take years to diagnose because its symptoms come and go and mimic other conditions. That's why Lucy chose to join BRI's Hamerman Lab, known for building complex and accurate models to study lupus.

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Sonoma Biotherapeutics Reports Encouraging Early Results from Phase I Trial in Treatment-Resistant Rheumatoid Arthritis

Business Wire



Sonoma Biotherapeutics announced encouraging early results from its Phase I trial of SBT-77-7101 for treatment-resistant rheumatoid arthritis. The therapy showed strong safety and early signs of effectiveness, with most patients experiencing significant reductions in joint inflammation. These findings suggest potential for a new, targeted Treg cell therapy for autoimmune diseases without the need for chemotherapy.

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Upcoming Events in Seattle

- | | |
|-------------------------|--|
| November 12
12:00 PM | Career Development Workshop
Online |
| November 17
6:30 PM | Smarty Pints! Clouds, Grasses, and Climate
Burke-Gilman Brewing |
| November 18
5:30 PM | Immunology to Change Lives
Seattle's Sunset Club |
| December 4
7:00 PM | Future Tense: Neuroscience, AI and Society with Cory Doctorow
Samuel E. Kelly Ethnic Cultural Center |
| December 9
3:00 PM | Collaboration in Research: Discovery, Innovation, and Impact
Vista Cafe |

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Science Jobs in Seattle

- | |
|---|
| Medical Lab Scientist, Bellevue Lab
Seattle Children's |
| Research Scientist II/III, DNA Synthesis
GenScript |
| Senior Scientist, Analytical Development
BrainChild Bio |
| Research Associate I, Lab Animal Services
Allen Institute |
| Post-Doctoral Research Fellow, Computational, Ghajar Lab
Fred Hutch |

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