

Publications of the Week

Efficient Long-Term Multilineage Engraftment of CD33-Edited Hematopoietic Stem/Progenitor Cells in Nonhuman Primates

First Author: Nicholas Petty | Senior Author: Hans-Peter Kiem *(pictured)*
Molecular Therapy Methods & Clinical Development | Fred Hutch and UW



Current immunotherapeutic targets are often shared between neoplastic and normal hematopoietic stem and progenitor cells (HSPCs), leading to unwanted on-target, off-tumor toxicities. Deletion or modification of such targets to protect normal HSPCs is, therefore, of great interest. Here, researchers deleted the V-set domain of CD33, the immune-dominant domain targeted by most anti-CD33 antibodies used to treat CD33-positive malignancies. [Abstract](#)

Structural Basis for Severe Pain Caused by Mutations in the Voltage Sensors of Sodium Channel Na_v1.7

First Author: Goragot Wisedchaisri | Senior Author: William Catterall *(pictured)*
Journal of General Physiology | UW



Voltage-gated sodium channels in peripheral nerves conduct nociceptive signals from nerve endings to the spinal cord. Mutations in voltage-gated sodium channel Na_v1.7 are responsible for a number of severe inherited pain syndromes, including inherited erythromelalgia. Here, researchers describe the negative shifts in the voltage dependence of activation in the bacterial sodium channel Na_vAb, which mimics the gain-of-function effects observed in Na_v1.7. [Abstract](#)

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Awards

Benaroya Research Institute's Dr. Carla Greenbaum Receives Puget Sound Business Journal Lifetime Achievement Award

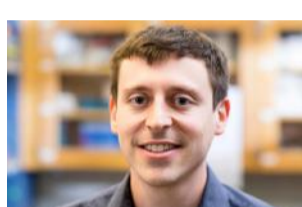
Benaroya Research Institute



The Puget Sound Business Journal honoured Dr. Carla Greenbaum *(pictured)* with this year's Lifetime Achievement Award, recognizing her decades-long dedication to type 1 diabetes (T1D) research. Dr. Greenbaum's name has become tantamount to diabetes expertise in the community, and her relentless pursuit of progress throughout her career has changed the landscape of T1D treatment. [Read More](#)

Life Science Washington Institute Announces 2023 Entrepreneurial Achievement Award Winner

Life Science Washington



The Life Science Washington Institute announced Dr. David Younger *(pictured)*, Co-Founder and CEO of A-Alpha Bio, as the winner of the Entrepreneurial Achievement Award. Established in 2020, the award celebrates the significant accomplishments of founding leaders from Washington-based life science companies who are reaching milestones, driving innovation, fulfilling unmet needs, and raising substantial funding. [Read More](#)

Cancer Research Institute Awards Dr. Ananda Goldrath with the 2023 Frederick W. Alt Award

Cancer Research Institute



The Cancer Research Institute has awarded Dr. Ananda Goldrath *(pictured)*, Executive Vice President and Director of the Allen Institute for Immunology, the 2023 Frederick W. Alt Award. This award is given to former Cancer Research Institute Postdoctoral Fellows who have achieved outstanding success in academia or industry for innovative research that has advanced knowledge and understanding in the field of immunology. [Read More](#)

BBI's Brian Shirts Receives Catalyst for Next-Generation Oncology Award

Brotman Baty Institute (BBI)



Dr. Brian Shirts *(pictured)*, a member of the Brotman Baty Institute, has won the Catalyst for Next-Generation Oncology Award for his work serving individuals and families with hereditary cancer. The award is accompanied by a \$50,000 grant to a non-profit organization. Dr. Shirts will direct the grant to ConnectMyVariant, a non-profit organization he launched earlier this year. [Read More](#)

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Local News

'AI-Triaged' 3D Pathology Improves Cancer Detection

UW Medicine



An interdisciplinary research team including Wynn Burke, Research Consultant, and Dr. William Grady *(pictured)*, Professor of Gastroenterology, recently found a more accurate and less labor-intensive way to diagnose malignancies. The team began by pioneering a new imaging technology called Open-Top Light Sheet microscopy and are now implementing AI to advance the process. [Read More](#)

BBI's Dr. Taran Gujral Tackles FLC and Other Rare Cancers

Brotman Baty Institute (BBI)



Fibrolamellar carcinoma (FLC) is a liver cancer that typically affects teenagers and adults under age 40 with healthy livers undamaged by alcohol or viruses. It is thought to occur in about one in five million people in the United States. Interestingly, Dr. Taran Gujral *(pictured)*, an Associate Professor at Fred Hutch, had never heard of FLC when he arrived at Fred Hutch seven years ago. [Read More](#)

Be Biopharma Presents Preclinical Data Demonstrating Ex Vivo Engineered B Cell Medicines Produce Highly Active and Sustained Levels of Antitumor Biologics

Biopharma



Be Biopharma is a company pioneering the discovery and development of Engineered B Cell Medicines (BCMs). Be Biopharma, in collaboration with Seattle Children's Research Institute, will present preclinical data demonstrating that a BCM-derived biologic can deliver steady-state plasma concentrations of a bispecific T cell engager at clinically relevant doses for treatment of relapsed/refractory acute lymphoblastic leukemia. [Read More](#)

New Grant Boosts Research on Cardiovascular Disease

Kaiser Permanente Washington Health Research Institute (KPWHRI)



Earlier this year, KPWHRI Assistant Investigator Dr. Laura Harrington *(pictured)* received a new 5-year, \$4 million grant from the National Heart, Lung, and Blood Institute to study complications resulting from venous thromboembolism. Harrington spoke about her career trajectory and her other areas of study as a researcher at KPWHRI. [Read More](#)

Promising Young Scientist: Sam Smukowski Integrates Genetics and Philosophy on a Journey Studying Neurodegenerative Disease

Brotman Baty Institute



It's likely that most graduate students in the UW Department of Genomic Sciences, especially those facing the expectation to complete their dissertations within six months, do not have books by Friedrich Nietzsche, Jean-Paul Sartre, and Franz Kafka on their nightstands. But then, PhD Candidate Sam Smukowski *(pictured, right)*, in Dr. Paul Valdanis' *(left)* lab, is not like most people immersed in genomic sciences and medical genetics. [Read More](#)

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📅 Upcoming Events in Seattle

November 7 12:00 PM	Current Biology Seminar Fred Hutch
November 7 6:30 PM	Painting with Bacteria SoundBio Lab
November 8 4:30 PM	EWIB-Seattle: Fall Social – Wine Tasting & Networking Eight Bells Winery
November 15 1:00 PM	Long-Read Sequencing Symposium Fred Hutch
November 18 5:00 PM	46th Annual Seattle Festival of Trees Guild Gala Fairmont Olympic Hotel

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📄 Science Jobs in Seattle

- Manager, Microscopy**
The Allen Institute
- Assistant Professor of Discipline-Based Education Research in Biology**
UW
- Post-Doctoral Research Fellow, Cell Biology**
Fred Hutch
- Associate Research Scientist**
Futran Solutions
- Research Science Liaison**
Syneos Health

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How to Organize Your Lab Notebooks, References, and Protocols



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