

**Publications of the Week**
**A Computational Method for Cell Type-Specific Expression Quantitative Trait Loci Mapping Using Bulk RNA-Seq Data**

 First Author: Paul Little | Senior Author: Wei Sun *(pictured)*  
 Nature Communications | Fred Hutch and UW


Cell type-specific gene expression quantitative trait loci (ct-eQTL) requires transforming RNA-seq count data, which distorts the relation between gene expression and cell type proportions and results in reduced power and/or inflated type I error. To address this issue, the authors have developed a statistical method called CSeQTL that allows for ct-eQTL mapping using bulk RNA-seq count data while taking advantage of allele-specific expression. [Abstract](#)

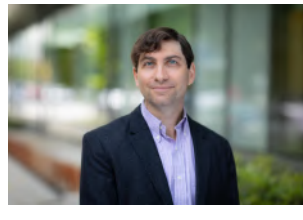
**Several Cell-Intrinsic Effectors Drive Type I Interferon-Mediated Restriction of HIV-1 in Primary CD4<sup>+</sup> T Cells**

 First Author: Hannah Itell | Senior Author: Julie Overbaugh *(pictured)*  
 Cell Reports | Fred Hutch and UW


Type I interferon (IFN) upregulates proteins that inhibit HIV within infected cells. Prior studies have identified IFN-stimulated genes (ISGs) that impede lab-adapted HIV in cell lines, yet the ISG(s) that mediate IFN restriction in HIV target cells, primary CD4<sup>+</sup> T cells, are unknown. The authors interrogate ISG restriction of primary HIV in CD4<sup>+</sup> T cells by performing CRISPR-knockout screens with a custom library that specifically targets ISGs expressed in CD4<sup>+</sup> T cells. [Abstract](#)

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**Awards**
**American Society of Nephrology Awards**

UW Medicine



Each year, the American Society of Nephrology (ASN) recognizes individuals who have demonstrated exceptional leadership and achievements in clinical care, education, and research through their lifetime achievement and midcareer awards. Congratulations to Drs. Ian de Boer, Beno Freedman *(pictured)*, Ann O'Hare, and Kathy Tuttle from the UW Department of Medicine who have received 2023 ASN awards. [Read More](#)

**Young Investigator Awards**

UW Medicine



First awarded in 1984, the Young Investigator Award provides research funding to promising young physicians during the final years of training to support the transition to a faculty appointment and to encourage quality research in clinical oncology. Congratulations to Drs. Hiba Khan *(pictured, left)* and Lynn Symonds *(right)* who received 2023 Young Investigator awards from the American Society of Clinical Oncology. [Read More](#)

**BBI's Husky Coronavirus Testing Team Receives Top UW Staff Award**

Brotman Baty Institute (BBI)



BBI's Husky Coronavirus Testing Team has been selected for the UW's 2023 Distinguished Staff Award for Innovation. The honor recognizes outstanding employees "who contribute to the richness and diversity of our University community." The 20 individuals, representatives of a larger 200-plus member team, will be recognized at a ceremony on June 8 hosted by University President Dr. Ana Mari Cauce. [Read More](#)

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**Local News**
**Rodent Regeneration: 'Unique' Spiny Mouse Genome Offers Potential Scientific Roadmap to Reclaiming Patients' Damaged or Failing Organs**

Brotman Baty Institute



How does a five-inch long rodent native to African and Middle Eastern deserts offer what researchers affiliated with the Brotman Baty Institute believe is the greatest hope for restoring a person's damaged or failing kidneys, liver, or other internal organs? That is the question, as intriguing as it is complex, that Drs. Elizabeth Nguyen and Mark Majesky are determined to answer. [Read More](#)

**BBI Faculty Profile: Dr. Kimberly Aldinger**

Brotman Baty Institute (BBI)



BBI Member Dr. Kimberly Aldinger *(pictured)* is an Assistant Professor of Pediatrics in the Division of Genetic Medicine and an Adjunct Assistant Professor of Neurology at UW. She is also a Principal Investigator in the Center for Integrative Brain Research at Seattle Children's Research Institute. She shares how she got involved in research, her work, and how that work has evolved over the years. [Read More](#)

**Senator Murray Tours Allen Institute, Vows to Continue Championing US and WA Leadership in Biomedical Research**

US Senator Patty Murray



US Senator Patty Murray, Chair of the Senate Appropriations Committee, toured the Allen Institute, which is celebrating its 20<sup>th</sup> anniversary this year. Senator Murray visited the brain sciences, neural dynamics, cell sciences, and immunology labs and heard from top scientists about the groundbreaking work the Institute has been doing. [Read More](#)

**A Research Incubator for Generating Ideas in Neurodegenerative Science**

UW Medicine Memory &amp; Brain Wellness Center



At the UW Alzheimer's Disease Research Center, senior and junior investigators convene at a monthly meeting called the Tau Working Group. This mentoring and study group serves as an incubator to generate new studies and mentor junior investigators. It's a chance for investigators to bounce their hypotheses off their peers, strike up collaborations, give updates on ongoing projects, and get help with developing grant proposals that are critical to moving a career in research forward. [Read More](#)

**Outpace Bio Expands Seattle Presence with Cell Therapy Research Hub & Collaborations with Leading Experts in Protein Design & Cancer Immunotherapy**

Outpace Bio via GlobalNewswire



Outpace Bio, a company using protein design and cell engineering to create advanced cell therapies with curative potential, has announced the expansion of its research facilities and new collaborations with leading scientists at Fred Hutch and the Institute for Protein Design at the UW School of Medicine. With a new 23,000 square-foot facility now open in Seattle's Dexter Yard, Outpace Bio aims to develop solutions to the multiple barriers that today stand in the way of treating solid tumors. [Read More](#)

**National Study Recommends Starting SARS-CoV-2 mRNA Vaccination Three Months After Bone Marrow Transplant**

Fred Hutch



Patients with cancer whose immune systems are being supported or rebuilt by bone marrow transplantation should begin receiving vaccines for protection against SARS-CoV-2 three months post-transplant, according to a large, prospective, observational study led collaboratively by the Center for International Blood and Marrow Transplant Research, the Blood & Marrow Transplant Clinical Trials Network, and Fred Hutch. [Read More](#)

**The Best Kind of Fishing Expedition**

Fred Hutch



How do you study a rare biological entity, one which is present in only a handful of copies per cell? This question is top-of-mind for members of Dr. Sue Biggins' *(pictured)* lab in the Basic Sciences Division at Fred Hutch, who study an intricate molecular machine called the kinetochore — a huge, basket-shaped complex of proteins which tethers a dividing cell's chromosomes to the microtubules that will physically pull the chromosomes to two opposite poles of the cell before cell division. [Read More](#)

**A Promising HIV Vaccine Candidate Gets a Little Help**

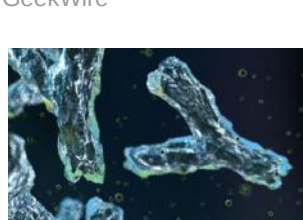
Fred Hutch



In the frustrating 40-year effort to develop a vaccine for HIV/AIDS, hardworking scientists could certainly use some help. Newly published research suggests they may have found some in the form of a common white blood cell called a CD4 T cell lymphocyte — also known, incidentally, as a helper T cell. The study, carried out by the lab of Dr. Julie McElrath, is a deep analysis of T-cell responses to an experimental vaccine developed by Scripps Research. [Read More](#)

**OncoResponse Lands \$27M to Advance Development of Antibody-Based Treatments for Cancer**

GeekWire



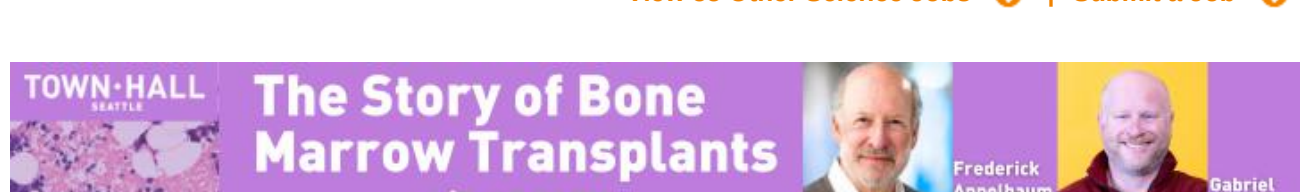
Seattle biotech company OncoResponse has landed \$27 million to advance the development and testing of its antibody-based immunotherapy treatments that fight cancer. The funds consist of a \$13 million grant from the Cancer Prevention and Research Institute of Texas, as well as \$14 million from existing investors. The new funds will support the development of OR502 and OR2805, immunotherapy candidates undergoing testing. [Read More](#)

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**Upcoming Events in Seattle**

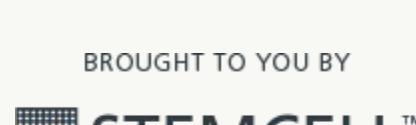
June 7 12:00 pm	<b>Biostatistics Seminar Series</b> Online
June 7 4:00 pm	<b>Live at the Laser Dome: KEXP DJ in Residence</b> Pacific Science Center
June 7 7:30 pm	<b>Frederick Appelbaum M.D. with Gabriel Spitzer: The Story of Bone Marrow Transplants</b> The Great Hall
June 10 7:00 pm	<b>Brewology</b> Pacific Science Center
June 14 6:30 pm	<b>Seattle AWIS – Annual Awards Banquet</b> UW Center for Urban Horticulture

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**Science Jobs in Seattle**

<b>Research Associate II</b> A-Alpha Bio
<b>Senior Director, Corporate Quality</b> AGC Biologics
<b>Principal Scientist, Sequencing Research and Genomics</b> Bristol Myers Squibb
<b>Manager, Clinical Research Operations</b> Fred Hutch
<b>Associate Director, Business Development</b> Zymeworks

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