

Publications of the Week
Interleukin-10 Mediated Immune Regulation after Stem Cell Transplantation: Mechanisms and Implications for Therapeutic Intervention

 First Author: Ping Zhang | Senior Author: Geoffrey Hill *(pictured)*
 Seminars in Immunology | Fred Hutch and UW


Interleukin-10 (IL-10) is a multi-faceted anti-inflammatory cytokine which plays an essential role in immune tolerance. A number of immune cells exert their immunomodulatory role through secretion of IL-10 or induction of IL-10-secreting cells after stem cell transplantation (SCT). The authors provide an overview of the control of IL-10 secretion and signaling after SCT, and an overview of the therapeutic interventions, with a focus on T1 cells. [Abstract](#)

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Awards
Dr. Denise Galloway, Expert in Cancer-Causing Viruses, Named 'Woman of Influence'

Fred Hutch



The Puget Sound Business Journal honored pioneering virus researcher Dr. Denise Galloway *(pictured)* of Fred Hutchinson Cancer Research Center as a "Woman of Influence" at the news organization's annual event to recognize noteworthy women of the regional business community. Galloway was one of 16 2019 "Women of Influence" feted at the ceremony. A panel of judges selected awardees from more than 250 nominations. [Read More](#)

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Local News
Seattle Startup Wants to Revolutionize Medicine for Kids with World's First Gummy Drugs

GeekWire



The Seattle Gummy Company's mission is to create a better method of delivering active ingredients into the body. Because they are chewed and dissolve slowly, gummies have prolonged contact with the mucous membrane in the mouth, so absorption is quicker and the drug acts faster. The startup has raised more than \$10 million from investors and currently employs around 20 people. [Read More](#)

A Look at Emerging Sickle Cell Disease Therapies

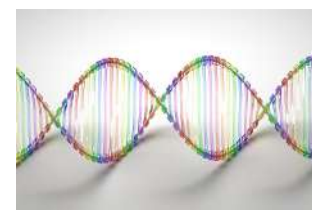
Fred Hutch



Teams at the University of Washington School of Pharmacy and Fred Hutch will model the clinical and economic burden of sickle cell disease and the potential benefits of emerging therapies. The goal is to clarify the potential long-term benefits of genetic therapies for this genetic disease. Results and public versions of the models will be made publicly available. [Read More](#)

Study Finds Key Alzheimer's Gene Acts Differently in Caribbean Hispanics

University of Washington via MedicalXpress



Researchers at the University of Washington looking to unlock the mysteries of Alzheimer's disease have revealed new insights from old variants. They've discovered that a gene called apolipoprotein E (APOE), long implicated in Alzheimer's disease, has two variants that act differently among Caribbean Hispanics depending on the ancestral origin. [Read More](#)

A Tipping Point: How TDP-43 Is Changing Conversations About Alzheimer's Disease

UW Medicine Memory & Brain Wellness Center



The UW Alzheimer's Disease Research Center (ADRC) is studying TDP-43, a protein that is critically important for normal nervous system function, but that can undergo chemical changes and go rogue in the context of brain disease. Led by Dr. Caitlin Latimer, the ADRC has added nuance to the understanding of what TDP-43 actually means for the brain health of older adults. [Read More](#)

Rebuilding the Brain: How a Researcher Is Studying the Injured Brain's Ability to Fix Itself

The Daily



Brain plasticity is the brain's capacity to modify and strengthen its connections to essentially rewire itself in cases of injury or degeneration. The brain has certain cues for changes where various inputs can change the brain itself. Dr. Samira Moorjani *(pictured)*, a Research Assistant Professor at UW, wants to study how to harness these cues to induce plasticity. [Read More](#)

Where Art and Science Meet

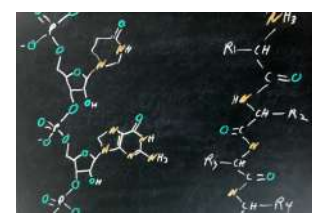
The Huddle



Where do art and science intersect? Can one inform the other? Those are things that research scientist Garrett Perchetti thinks about on a regular basis. He works for the Department of Lab Medicine in the Division of Virology at UW, performing genetic sequencing and molecular biology of viruses. He's also an artist. The UW Huddle talked with him about his career, his artwork and what inspires him to do both. [Read More](#)

Shape Therapeutics Raises \$35.5M Series A Round to Develop RNA-Based Gene Editing Technology

MedCity News



Seattle-based Shape Therapeutics, or ShapeTx, has raised a \$35.5 million Series A financing, led by New Enterprise Associates and with participation from CureDuchenne Ventures. The company said it plans to use the money to build up its intellectual property, hire scientists and advance its RNA and protein-targeting technology, which it describes as being aimed at curing genetic diseases. [Read More](#)

Peter Skene: Transforming Outcomes for Patients

Allen Institute for Immunology



What causes immune diseases such as diabetes, Crohn's disease, and cancer? What technologies can be used to help uncover these answers? Watch this video that explains how Dr. Peter Skene, Director of Molecular Biology and Biochemistry at the Allen Institute for Immunology, is working to answer these questions and transform outcomes for patients. [Read More](#)

New Weill Neurohub Will Unite UCSF, UC Berkeley, UW in Race to Find New Treatments for Brain Diseases

UW News



With a \$106 million gift from the Weill Family Foundation, UC Berkeley, UC San Francisco and the University of Washington have launched the Weill Neurohub, an innovative research network that will forge and nurture new collaborations between neuroscientists and researchers working in an array of other disciplines to speed the development of new therapies for diseases and disorders that affect the brain and nervous system. [Read More](#)

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Interesting Articles
Why NIH Is Beefing up Its Data Sharing Rules After 16 Years

Science Magazine



The U.S. National Institutes of Health (NIH) has released a draft policy that will require all investigators with NIH funding to make their data sets available to colleagues. For the first time, grantees holding any NIH-funded grant—not just those above a \$500,000 threshold in direct costs—will need to submit a detailed plan for sharing data, including steps to protect the privacy of research subjects. [Read More](#)

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Upcoming Events in Seattle

- November 17 - **Cell Symposia: Hallmarks of Cancer**
Moffitt Seattle
- November 22 **PacSci Happy Hour: Science Improv**
Pacific Science Center
- November 27 **BioTech & Bagels Morning Meetup**
Capital One Cafe
- December 5 **Geekwire Gala 2019**
The Showbox at the Market
- December 13 **Seattle Cell Science Symposium**
Allen Institute

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- Research Associate II, Synthetic Biology, Drug Discovery**
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Gilead
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University of Washington
- Scientist, Therapeutic Discovery**
Allen Institute for Brain Science

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