

Publications of the Week

Cross-Reactivity with Self-Antigen Tunes the Functional Potential of Naive B Cells Specific for Foreign Antigens

First Author: Holly Steach (pictured) | Senior Author: Justin Taylor
The Journal of Immunology | Fred Hutch and UW



The factors determining whether an individual naive B cell will proliferate following antigen (Ag) encounter remains unclear. The authors found that polyclonal naive murine B cell populations specific for a variety of foreign Ags expressed high levels of the orphan nuclear receptor Nur77, which is known to be upregulated downstream of B cell receptor signaling as a result of cross-reactivity with self-antigens *in vivo*. [Abstract](#)

Clonal Kinetics and Single-Cell Transcriptional Profiling of CAR-T Cells in Patients Undergoing CD19 CAR-T Immunotherapy

First Author: Alyssa Shah | Senior Author: Cameron Turtle (pictured)
Nature Communications | Fred Hutch, Benaroya Research Institute at Virginia Mason and UW



Clonal kinetics and transcriptional programs that regulate the fate of CAR-T cells after infusion remain poorly understood. The authors performed T cell receptor beta sequencing, integration site analysis, and single-cell RNA sequencing to profile CD8⁺ CAR-T cells from infusion products and blood of patients undergoing CD19 CAR-T immunotherapy. [Abstract](#)

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Awards

UWMDI Investigators Receive Award from the National Heart, Lung, and Blood Institute for their MPI R01 Project

UW Medicine Diabetes Institute



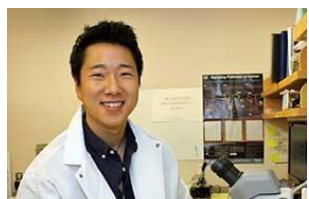
Dr. Jay Heinecke (pictured), a Professor of Metabolism, Endocrinology and Nutrition, and Dr. Karin Bomfeldt, a Professor of Metabolism, Endocrinology and Nutrition at the UW Medicine Diabetes Institute (UWMDI) have been awarded a \$688,354 grant from the National Heart, Lung, and Blood Institute for their MPI R01 project "Structural basis for cardioprotective HDL." [Read More](#)

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Local News

Anti-Aging Drug Holds Promise for Age-Related Oral Diseases

UW School of Dentistry



A team led by Drs. Jonathan An (pictured) and Matt Kaerberlein of the UW School of Dentistry has found that rapamycin, a transplant drug with anti-aging properties, can regenerate bone and decrease gum inflammation, pointing the way toward new treatments for common dental problems in aging patients. Rapamycin is approved by the FDA, but until now, nobody has explored its effect in the aging mouth. [Read More](#)

Technique Shows How Individual Cancer Cells React to Drugs

UW Medicine via Medical Xpress



A new technique developed by researchers in Cole Trapnell's (pictured) lab at UW overcomes several limitations of typical high-throughput chemical screens conducted on cell samples. Such screens are commonly used to try to discover new cancer drugs, and in many other biomedical applications. The technology combines improvements in labeling cell nuclei with advances in profiling which genes are expressed in millions of individual cells. [Read More](#)

Stephanie Lee, MD, MPH, Begins Term as 2020 ASH President

American Society of Hematology



Dr. Stephanie Lee (pictured), a highly regarded expert in graft-versus-host disease as well as blood and bone marrow diseases, will serve as president of the American Society of Hematology (ASH) for a year-long term. Dr. Lee is a Member and Associate Director of the Clinical Research Division at Fred Hutch, where she also holds the David and Patricia Giuliani/Oliver Press Endowed Chair in Cancer Research. [Read More](#)

Life Science Washington Welcomes New Board Chair, Executive Committee Members, and Directors

Life Science Washington



Life Science Washington has announced the addition of three new board members in 2020, and new leadership on the Executive Committee. Dr. Leslie Alexandre, President & CEO of Life Science Washington, said that the organization has "deliberately increased the representation of women on [the] Board from 15% to over 40%", and has "added more life science leaders from across the state and from more industry sectors." [Read More](#)

Tip Sheet: Mesh Loaded with T Cells Shrinks Tumors; Second Dose of CAR-T Cells Shows Potential; and Gene-Edited Cells Stay Safe as Immunotherapy Attacks Cancer

Fred Hutch



Recent Fred Hutch research findings have been summarized, with links for additional background and media contacts. The research includes the development of a mesh loaded with T cells that could shrink tumors, a trial demonstrating that giving a second dose of CAR-T cells showed potential, and the finding that gene-edited cells stayed safe as immunotherapy attacked cancer. [Read More](#)

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Interesting Articles

FDA and NIH Let Clinical Trial Sponsors Keep Results Secret and Break the Law

ScienceInsider



For 20 years, the U.S. government has urged companies, universities, and other institutions that conduct clinical trials to record their results in a federal database. In 2017, the NIH and the FDA enacted a long-awaited "final rule" to clarify the law's expectations and penalties for failing to disclose trial results. But a *Science* investigation has shown that many still ignore the requirement, while federal officials do little or nothing to enforce the law. [Read More](#)

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Upcoming Events in Seattle

- January 23 5:00 PM **Life Science Industry Networking Event**
Life Science Washington HQ
- January 28 12:00 PM **Lunch & Learn: Market Trends**
Cambria Grove
- January 29 5:30 PM **University of Washington Diversity Career Fair**
Husky Union Building
- February 4 5:30 PM **UW Postdoc Association General Assembly**
Loew 310
- February 4 7:30 PM **Bees, Guts, Soil, and Cancer**
The Forum

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Science Jobs in Seattle

- Faculty Candidates**
Institute for Systems Biology
- Staff Scientist**
Fred Hutchinson Cancer Research Center
- Assistant/Associate Member, Systems Immunology**
Benaroya Research Institute at Virginia Mason
- Head of Biometrics**
Chinook Therapeutics
- Lab Manager, Molecular Product Development**
Adaptive Biotechnologies

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STEMCELL Jobs

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STEMCELL Technologies
- Associate Product Manager, Pluripotent Stem Cell Biology (Vancouver, BC)**
STEMCELL Technologies
- Content Editor & Corporate Writer (Burnaby, BC)**
STEMCELL Technologies
- Scientific Marketing Specialist, Epithelial Cell Biology (Burnaby, BC)**
STEMCELL Technologies
- Research Associate, Bioengineering (Vancouver, BC)**
STEMCELL Technologies

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GETTING ENOUGH CORD BLOOD HSCs FOR TRANSPLANTATION ISN'T EASY. BUT SHE IS PAVING THE WAY.
Webinar by Suzan Imren

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