

Publications of the Week

Trimodal Single-Cell Profiling Reveals a Novel Pediatric CD8 α^+ T Cell Subset and Broad Age-Related Molecular Reprogramming Across the T Cell Compartment

First Author: Zachary Thomson | Senior Author: Claire Gustafson (*pictured*) and Peter Skene
Nature Immunology | Allen Institute and UW



Age-associated changes in the T cell compartment are well described. However, limitations of current single-modal or bimodal single-cell assays, including flow cytometry, RNA-seq, and CITE-seq, have restricted the ability to deconvolve more complex cellular and molecular changes. These data reveal new insights into age-associated changes in the T cell compartment that may contribute to differential immune responses. [Abstract](#)

Modulation of Influenza A Virus NS1 Expression Reveals Prioritization of Host Response Antagonism at Single-Cell Resolution

First Author: Qing Yang | Senior Author: Daniel Blanco-Melo (*pictured*)
Frontiers in Microbiology | Fred Hutch



Influenza A virus (IAV) is an important human respiratory pathogen that causes significant seasonal epidemics and potential devastating pandemics. As part of its life cycle, IAV encodes the multifunctional protein NS1, that, among many roles, prevents immune detection and limits interferon production. This work demystifies some of the multiple functions ascribed to IAV NS1. [Abstract](#)

Screening of Oligomeric (Meth)acrylate Vaccine Adjuvants Synthesized via Catalytic Chain Transfer Polymerization

First Authors: Cordula Hege and Amy Stimpson | Senior Authors: Christopher Fox (*pictured*) and Derek Irvine
Polymers | Access to Advanced Health Institute and UW



This report details the first systematic screening of free-radical-produced methacrylate oligomer reaction mixtures as alternative vaccine adjuvant components to replace the current benchmark compound squalene. Currently, squalene is unsustainably sourced from shark livers and this study provides a stable, ethical, and reliable alternative. [Abstract](#) | [Press Release](#)

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Awards

ITHS Faculty Leader Elected to National Academy of Medicine

Institute of Translational Health Sciences (ITHS)



Dr. Tumaini Coker (*pictured*) is one of three professors at the University of Washington elected to the National Academy of Medicine in recognition of excellence in the fields of health and medicine, along with a commitment to volunteer service. Election to the Academy is considered one of the most prestigious honors in health and medicine. [Read More](#)

Elli Theobald Named a Recipient of the 2023 UW Distinguished Teaching Awards

University of Washington



Biology Associate Teaching Professor Dr. Elli Theobald (*pictured*) was named one of the recipients of the University of Washington Distinguished Teaching Award. The Distinguished Teaching Award is amongst the highest teaching recognitions at the University of Washington. This award honors six extraordinary faculty members at the UW every year. [Read More](#)

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Local News

WRF Selects Five New Venture Analysts to Support Its Grant and Investment Programs

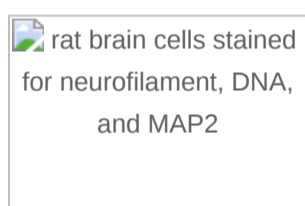
Washington Research Foundation (WRF)



Washington Research Foundation has selected its sixth cohort of WRF Venture Analysts to assist with its grant-making and investment activities. They assist in the review of grant and investment opportunities under consideration for funding by WRF, applying their expertise across a wide range of scientific fields while gaining working experience of commercialization and entrepreneurship. Among the new cohort is Cade Ito (*pictured, right*) and Ashish Phal (*left*). [Read More](#)

A Groundbreaking Human Brain Cell Atlas Just Dropped

Wired



An international team of researchers shared an extraordinarily detailed atlas of human brain cells, mapping its staggering diversity of neurons. The atlas was published as part of a massive package of 21 papers in the journal *Science*, each taking complementary approaches to the same overarching questions: What cell types exist in the brain? And what makes human brains different from those of other animals? [Read More](#)

Dr. Lawrence Fong to Lead Immunotherapy Integrated Research Center

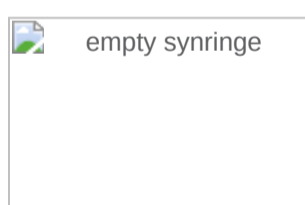
Fred Hutch



Dr. Lawrence Fong (*pictured*) studies the strategies solid tumors use to resist immunotherapy. He will lead efforts to scale up Fred Hutch's solid tumor immunotherapy research as the new Scientific Director of the Immunotherapy Integrated Research Center. He will begin his new role July 1, 2024. Dr. Fong founded and currently leads the Cancer Immunotherapy Program at the University of California. [Read More](#)

More Study Needed into the 'Why' of New Weight-Loss Drugs

UW Medicine



Hitting the market over the past six years, the drugs Ozempic, Wegovy, and Mounjaro are viewed as a therapeutic breakthrough for the 42% of the U.S. population who are clinically obese. One Seattle endocrinologist suggests, however, that more research is needed. These drugs are not the be-all and end-all to weight-loss therapy, wrote Dr. Michael Schwartz in a commentary recently published in *The Journal of Clinical Investigation*. [Read More](#)

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Upcoming Events in Seattle

- October 25 8:00 AM **Seattle BioTech & Bagels Morning Virtual Meetup** Online
- October 26 1:00 PM **Science in Medicine New Investigator Lecture with Dr. Kelly Stevens** Foege Auditorium
- October 31 12:00 PM **Current Biology Seminar** Fred Hutch
- November 2 8:30 AM **Value in Cancer Care Summit 2023** Bell Harbor International Conference Center
- November 2 12:00 PM **Kicking Off A New Team – Team Science Seminar Series** Online

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Science Jobs in Seattle

- Manager, Microscopy**
Allen Institute
- Senior Scientist, Impurity Assays**
Seagen
- Research Scientist, Microbiology**
IEH Laboratories
- Clinical Research Faculty Assistant/Associate Member**
The Benaroya Research Institute
- Post-Doctoral Research Fellow, Cell Biology**
Fred Hutch

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