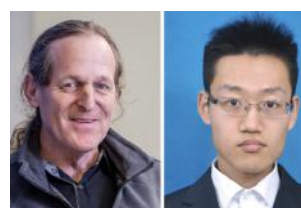


Publications of the Week
Raman-Guided Subcellular Pharmaco-Metabolomics for Metastatic Melanoma Cells

 First Authors: Jiajun Du and Yapeng Su (*pictured, right*) | Senior Author: James Heath (*pictured, left*)
 Nature Communications | Institute for Systems Biology


Researchers utilized Raman spectro-microscopy for spatial mapping of metabolites within single cells, with the specific goal of identifying druggable metabolic susceptibilities from a series of patient-derived melanoma cell lines. Each cell line represented a different characteristic level of cancer cell de-differentiation.

[Abstract](#) | [Press Release](#)
Ontogeny of Different Subsets of Yellow Fever Virus-Specific Circulatory CXCR5⁺ CD4⁺ T Cells after Yellow Fever Vaccination

 First Author: Quinn DeGottardi | Senior Author: William Kwok (*pictured*)
 Scientific Reports | Benaroya Research Institute at Virginia Mason, Fred Hutch and UW


Circulatory CXCR5⁺ (cCXCR5⁺) T cells are highly heterogeneous in their expression of ICOS, PD1 and CD38 and the relationship between different cCXCR5 subsets as delineated by these markers remains unclear. Researchers applied class II tetramer reagents and mass cytometry to investigate the ontogeny of different subsets of cCXCR5⁺ T cell following yellow fever immunization.

[Abstract](#)
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Awards
Fred Hutch Evergreen Fund Awards Six Grants to Promising Projects

Fred Hutch



Six Fred Hutch teams have been selected as this year's recipients of grants from the Evergreen Fund, which supports early research projects with commercial potential to attract future business partners. Among these are Drs. Kristin Anderson (*pictured, left*) and Lucas Sullivan (*pictured, right*) for their project to genetically modify T cells to withstand the toxic microenvironment of pancreatic tumors.

[Read More](#)
Lumen Bioscience Receives \$4 Million Federal Grant to Rapidly Develop Nanobody-Based COVID-19 Therapeutic

Lumen Bioscience, Inc.



Lumen Bioscience, a clinical-stage biopharmaceutical company developing biologic drugs for highly prevalent diseases, and the US Army Medical Research and Development Command, have announced an agreement to develop a rapid, scalable, and inexpensive biologic drug cocktail to treat gastrointestinal infection in COVID-19 patients and potentially block disease transmission. [Read More](#)

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Local News
New Study Aims to Answer Pressing COVID-19 Question: Why Do Some Die While Others Don't Even Know They Are Sick?

Allen Institute for Immunology



Research teams at Fred Hutch and the Allen Institute for Immunology are delving into the molecular and cellular details of how COVID-19 patients' immune systems are responding to the virus, both shortly after infection and in the weeks and months following. They aim to understand why some people die while others don't even know they are sick. [Read More](#)

Seeking Targeted Treatments for Pancreatic Cancer

Fred Hutch



Earlier this year, Dr. Nithya Kartha (*pictured*) at Fred Hutch received a fellowship from the American Cancer Society to seek out targeted treatments for the most aggressive subtype of pancreatic cancer. The goal of her laboratory is to identify biomarker profiles that could be used in the clinic, and based on certain tumor markers, recommend a personalized treatment path. [Read More](#)

The Heat Is On for Building 3D Artificial Organ Tissues

UW Medicine



Bioengineers are devising a hot new technology to remotely control the positioning and timing of cell functions to build 3D, artificial, living tissues. The lab of Dr. Kelly Stevens (*pictured*) at the UW Medicine Institute of Stem Cell and Regenerative Medicine is collaborating with Rice University researchers to develop bio-printed, organ-like tissues, such as liver and lung constructs. [Read More](#)

Ultrapotent Antibody Mix Blocks COVID-19 Virus Attachment

UW Medicine



UW Medicine's Dr. David Veesler (*pictured*) has studied the molecular structure and infection mechanisms of a variety of coronaviruses and other viruses. In his recent collaborative study, a mix of ultrapotent antibodies from recovered COVID-19 patients has been shown to recognize and lock down the infection machinery of the pandemic coronavirus and keep it from entering cells. [Read More](#)

Q&A with a Bioinformatics Expert on the Challenges of Studying Human Immunology

Allen Institute for Immunology



Shortly after finishing his PhD, the Human Genome Project was ramping up and making headlines, and Dr. Xiaojun Li (*pictured*) found himself drawn to biology. Over two decades later, Dr. Li has joined the Allen Institute for Immunology to lead the Bioinformatics team. He shared the career path that brought him to become Director of Bioinformatics and why he's excited about immunology research. [Read More](#)

Fruit Flies Add More Weight to Theory that Individual Bodies Have Set Points

Fred Hutch



Fred Hutch scientists have revealed, using fruit flies, how a hormone released by fat interacts with a neural circuit that regulates insulin release in a way that could establish a body-weight set point. Unexpectedly, the team learned that insulin resets its own brake, potentially preventing fluctuations in weight. For the first time, this study shows that in this particular synapse, hormones controlling how two neurons talk to each other regulates the set point. [Read More](#)

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Upcoming Events in Seattle

- October 7
9:00 AM **Exploring Frontiers: The Future of Brain Health Research**
Online
- October 8
9:00 AM **17th Annual STD & AIDS Research Symposium**
Online
- October 8
4:00 PM **Women in Bio-Seattle: Inaugural Executive Women In Bio (EWIB) Launch: Virtual Reception**
Online
- October 10
9:00 AM **2020 Virtual Huntington's Disease Symposium**
Online
- October 15 - 16
9:15 AM **Harnessing Our Inner Ecology to Track and Treat Disease**
Online

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Science Jobs in Seattle
Scientist II, Molecular Immunology and Immune Cell Signaling

Allen Institute for Immunology

Scientist I, Electron Microscopist

Allen Institute

Senior Scientist, Engineered T Cell Biology

Bristol Myers Squibb

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Zymeworks

Immune-Oncology Research Associate, *In Vivo*

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