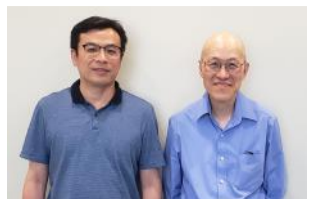


Publications of the Week
Discriminative T Cell Recognition of Cross-Reactive Islet-Antigens Is Associated with HLA-DQ8 Transdimer-Mediated Autoimmune Diabetes

 First Author: I-Ting Chow (pictured, left) | William Kwok (right)
 Science Advances | Benaroya Research Institute at Virginia Mason and UW


Human leukocyte antigen (HLA)-DQ8 transdimer confers exceptionally high risk in autoimmune diabetes. The authors report a high degree of epitope overlap and T cell promiscuity between susceptible HLA-DQ8 and HLA-DQ8 transdimer. Despite preservation of putative residues for T cell receptor contact, stronger disease-associated responses to cross-reactive, immunodominant islet epitopes were elicited by HLA-DQ8 transdimer. [Profile](#) | [Abstract](#)

Separate *Polycomb* Response Elements Control Chromatin State and Activation of the *Vestigial* Gene

 First Author: Kami Ahmad (pictured, left) | Senior Author: Amy Spens (right)
 PLOS Genetics | Fred Hutch


Regulatory DNA sequences called *Polycomb Response Elements (PREs)* are required to repress some developmental target genes, and are widespread in genomes, suggesting that they broadly affect developmental programs. The authors showed that *PREs* near the wing selector gene *vestigial* have distinctive roles at their endogenous locus, even though both *PREs* are repressors in transgenes. [Profile](#) | [Abstract](#)

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Awards
Life Sciences Research Foundation Funds Study to Track Evolution, Spread of Bird Flu

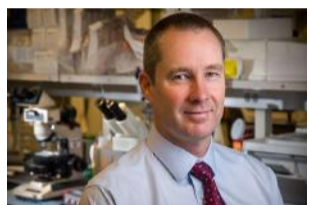
Fred Hutch



Fred Hutch Postdoctoral researcher Dr. Louise Moncla (pictured) has been awarded a three-year fellowship from the Baltimore-based Life Sciences Research Foundation to trace the evolutionary changes that have taken place in a worrisome strain of bird flu known as H5N1. Moncla works in the laboratory of Dr. Trevor Bedford, who uses computational and statistical methods to track the evolution and spread of viruses. [Read More](#)

Dr. Cameron Turtle Receives Anderson Family Endowed Chair for Immunotherapy

Fred Hutch



Dr. Cameron Turtle (pictured), a hematology oncologist and pioneering researcher into CAR T-cell therapy, is the inaugural recipient of the Anderson Family Endowed Chair for Immunotherapy at Fred Hutch. This new endowed chair will help advance Turtle's research, which focuses on how T cells, a type of immune cell, can be engineered to fight blood cancers such as lymphoma and leukemia. [Read More](#)

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Local News
No Poop Required: Researchers Devise Blood Test for Gut Microbiome Diversity Using Data from Defunct Startup Arivale

GeekWire



If you want to know what's going on in your gut microbiome, the community of bacteria in our intestines that are tied to overall health, there are plenty of companies willing to help. You just have to pay them — and send in a poop sample. Researchers at the Institute for Systems Biology have devised a new way to look into the state of your microbiome with a blood test. [Read More](#)

Improved Method for Converting Stem Cells into Pancreatic Islet Progenitor Cells

Institute for Stem Cell & Regenerative Medicine (ISCRM)



Cell replacement therapy offers one of the most promising prospects for treating or even curing type 1 diabetes. New research from Drs. Vincenzo Cirulli, Laura Crisa and Wendy Yang details how promoting the function of a protein, known as Cx43, has helped the ISCRM research team to more efficiently convert stem cells into pancreatic islet progenitor cells. [Read More](#)

Scientists Gather in Seattle to Share Strategies for an HIV Cure

Fred Hutch



Buoyed by a show of support from the Bill & Melinda Gates Foundation, more than 150 of the world's leading experts in the use of gene therapy to cure HIV gathered in Seattle last week to vet their research and advance a bold idea: to make these potentially curative therapies low-cost and accessible to patients everywhere. The conference was co-hosted by Drs. Keith Jerome (pictured) and Hans-Peter Kiem at Fred Hutch. [Read More](#)

Conference Connects Breast Cancer Patients with Clinical Trials

Komo News



It might seem like a strange thing to hear, but if you have to have breast cancer, researchers say now is a good time. Science is making major strides treating the disease, but for that to keep happening, doctors say more patients need to step up and help. Cancer survivor Teri Pollastro knows the importance of clinical trials to treat breast cancer, and has helped bring the Northwest Metastatic Breast Cancer Conference to Seattle. [Read More](#)

Fred Hutchinson Cancer Research Center and Leica Microsystems Establish Center of Excellence in Microscopy

PR Newswire via Leica Microsystems



Fred Hutch and Leica Microsystems, Inc. have combined efforts to establish the Leica Microsystems Center of Excellence at Fred Hutch. The new Center will support a mission to drive new discoveries and insights from scientific research performed using the imaging systems. The Center of Excellence features sixteen imaging systems and Laser Microdissection, allowing researchers to capture images and video of the cellular and molecular processes of life. [Read More](#)

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Upcoming Events in Seattle

- September 10 7:00 PM **One Doctor, Two Million Patients: Mental Health Care in Sub-Saharan Africa**
PACCAR Theater
- September 17 7:00 PM **News You Can Snooze: New Studies on Sleep**
PACCAR Theater
- September 19 7:00 PM **Let's Get in Formation: Empowering Girls and Women in STEM**
Pacific Science Center
- September 23 1:00 PM **Genome Startup Day**
Foegen Hall
- September 25 8:00 AM **Northwest Gynecological Cancer Symposium**
Orin Smith Auditorium

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Science Jobs in Seattle
Scientist, Therapeutic Discovery

Allen Institute for Brain Science

Fred Hutchinson Cancer Research Center

Assistant or Associate Professor, Oncology

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UW Medicine

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