

Publications of the Week

Robust Expansion of HIV CAR T Cells following Antigen Boosting in ART-Suppressed Nonhuman Primates

First Author: Blake J. Rust | Senior Author: Christopher William Peterson (*pictured*)
Blood | Fred Hutch



In a well-established nonhuman primate model of ART-suppressed HIV-1 infection, the authors tested strategies to overcome CAR T cell therapy challenges. They first optimized CAR T cell production to maintain central memory subsets, consistent with current clinical paradigms. They hypothesized that additional exogenous antigen might be required in an ART-suppressed setting to aid expansion and persistence of CAR T cells. [Profile](#) | [Abstract](#)

Assembly of the Threespine Stickleback Y Chromosome Reveals Convergent Signatures of Sex Chromosome Evolution

First Author: Catherine Peichel (*pictured*) | Senior Author: Michael White
Genome Biology | Fred Hutch



The authors described the assembly of the threespine stickleback (*Gasterosteus aculeatus*) Y chromosome, which is less than 26 million years old and at an intermediate stage of degeneration. They combined long-read sequencing with a Hi-C-based proximity guided assembly to generate a 15.87 Mb assembly of the Y chromosome. [Abstract](#)

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Awards

7 University of Washington Researchers Elected to the Washington State Academy of Sciences in 2020

UW News



Seven scientists and engineers at UW have been elected to the Washington State Academy of Sciences. Among the new members for 2020 is Christine Luscombe (*pictured*), Professor of Chemistry and of Materials Science and Engineering, "for the development of controlled polymerization reactions for conjugated polymers, especially alkyl-thiophenes, for organic electronics applications." [Read More](#)

Washington/Fred Hutch Center for AIDS Research 2020 New Investigator Awards

University of Washington/Fred Hutch Center for AIDS Research



The University of Washington/Fred Hutch Center for AIDS Research has announced the 2020 New Investigator Award recipients. Celso Inguane (*pictured*), a postdoctoral scholar in Global Health at UW, is one of 8 recipients. His work focuses on evidence-based decision-making in the HIV cascade continuum of care. [Read More](#)

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Local News

Preventing Brain Metastasis in Breast Cancer

Fred Hutch



Translational researcher Dr. Cyrus Ghajar (*pictured*) of Fred Hutch received nearly \$2.4 million from the National Cancer Institute for a five-year study designed to develop strategies to prevent brain metastasis in breast cancer patients. Ghajar studies breast cancer metastasis, particularly disseminated tumor cells, which can circulate in the body and embed in distant tissues well before a cancerous tumor is detected. [Read More](#)

First End-to-End Sequence of Human X Chromosome Assembled

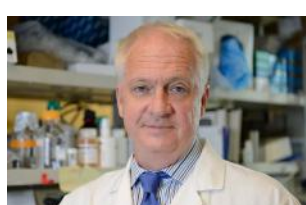
UW Medicine



The first end-to-end DNA sequence of a human chromosome has now been assembled. Several UW scientists contributed their expertise to the work, including Dr. Evan Eichler (*pictured*). Until this time, and despite decades of improvements on the human reference genome assembly, no human chromosome had ever been assembled from tip to tip. [Read More](#)

New Study Shows Cancer-Causing 'Frankengene' Mutation Could be Target for New Drugs

Fred Hutch



Scientists at Fred Hutch, led by Dr. Eric Holland (*pictured*), have shown that YAP gene fusions cause cancer. The team tested the effect of each of four different YAP fusions in mouse brain cells and found that tumors developed in the presence of each fusion. Comparing fusions, they were able to narrow down the key functions of YAP that trigger cancer and figure out how its fusions sidestep molecular controls. [Read More](#)

COVID-19 Vaccine Has Hefty Response in Nonhuman Primates

UW Medicine



A replicating RNA vaccine, formulated with a lipid-based nanoparticle emulsion that goes by the acronym LION, produces antibodies against the COVID-19 coronavirus in mice and primates with a single immunization. These antibodies potently neutralize the virus. The effects occurred within two weeks after administration through injection into a muscle. [Read More](#)

New Study Will Help Guide Washington's COVID-19 Response

UW Medicine



The Washington State Department of Health, UW Medicine, and the Paul G. Allen Family Foundation have announced the launch of a major study to determine the percentage of Washingtonians who have been infected by COVID-19. Dr. Keith Jerome (*pictured*) and UW Medicine's Virology Laboratory will conduct the study in close partnership with state and local public health agencies. [Read More](#)

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Upcoming Events in Seattle

July 29 6:00 PM	PacSci Happy Hour: Virtual Trivia Online
August 5 9:00 AM	Webinar: Impact of SARS-CoV-2 Infection on the Central Nervous System Online
August 14-16 8:00 AM	SciComm 2020 Online
September 2 8:30 AM	2020 From the Laboratory to Leadership – Fall Program Online
September 16-17 6:00 AM	7th Annual Conference: SBI2 High Content 2020 Online

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Science Jobs in Seattle

- Lab Manager**
Shape Therapeutics
- Scientist, Custom & Process Analytics, Cell Therapy**
Bristol Myers Squibb
- Manager, GMP Quality Assurance**
Zymeworks
- Scientist/Senior Scientist, Formulation and Drug Product Sciences**
Seattle Genetics
- Post-Doctoral Research Fellow, Molecular Neuroscience**
Fred Hutch

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