

Publications of the Week
An *In Vivo* Model of Human Macrophages in Metastatic Melanoma

 First Author: Valentin Voillet | Senior Author: Anthony Rongvaux *(pictured)*
 The Journal of Immunology | Fred Hutch and UW


Macrophages infiltrate tumor microenvironments and generally associate with tumor progression, but the underlying mechanisms are incompletely understood. Because experimental systems are needed to elucidate the functional properties of these cells, the authors developed a humanized mouse model reconstituted with human immune cells and human melanoma. They used two strains of recipient mice, supporting or not supporting the development of human myeloid cells.

[Abstract](#)
Sustained Inhibition of NPY/AgRP Neuronal Activity by FGF1

 First Author: Eunsang Hwang | Senior Author: Michael Schwartz *(pictured)*
 JCI Insight | UW and Novo Nordisk Research Center


In rodent models of type 2 diabetes, central administration of fibroblast growth factor 1 (FGF1) normalizes elevated blood glucose levels in a manner that is sustained for weeks or months. The authors sought to determine whether FGF1 inhibits NPY/AgRP neurons, and if so whether this inhibitory effect is sufficiently durable to offer a feasible explanation for sustained diabetes remission induced by central administration of FGF1. [Abstract](#)

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Awards
Hutch Scientists Receive \$25M to Solve Breast Cancer Metastasis

Fred Hutch



Although life expectancy for metastatic breast cancer patients has been extended with new therapies, metastatic disease is still not curable. Translational breast cancer researcher Dr. Cyrus Ghajar *(pictured)*, epidemiologist Dr. Christopher Li, and immunotherapy expert Dr. Stanley Riddell of Fred Hutch have received a four-year, \$25 million grant from the US Department of Defense to learn how to kill metastatic cancer's deadly seeds before they can sprout. [Read More](#)

2022 McKnight Technology Awards

McKnight Foundation



The McKnight Endowment Fund for Neuroscience announced the three recipients of \$600,000 in grant funding through the 2022 McKnight Technological Innovations in Neuroscience Awards. The awardees include Dr. Andre Berndt *(pictured)* at UW, who is developing a system to create and scan very large numbers of optogenetic biosensors very quickly, so that researchers can identify and refine these biosensors more precisely for their experiments. [Read More](#)

Dr. Anthony Fauci to Receive Honorary Hutch Award®

Fred Hutch



Fred Hutch will give the 2022 honorary Hutch Award® to Dr. Anthony Fauci *(pictured)* for his lifetime of service toward a healthier world. The Hutch Award was created in 1965 to honor Fred Hutchinson, whose death inspired his brother Dr. Bill Hutchinson, a surgeon in Seattle, to create the Seattle-based cancer center. This is the second time an honorary Hutch Award has been given. [Read More](#)

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Local News
How ADAR1 Mutation Leads to Self-Destructive Inflammation

UW Medicine



A new study led by Dr. Andrew Oberst *(pictured)*'s lab at UW shows how mutation of the ADAR1 gene sets off biochemical pathways that produce an autoimmune response that harms the developing brain and other areas of the body. Studying the immunological repercussions of this mutation can provide broader insights into some aspects of genetic and biochemical activities and interactions culminating in abnormal inflammation. [Read More](#)

Making Immunotherapy More Effective against Small Cell Lung Cancer

Fred Hutch



Working in mice, Fred Hutch scientists combined an immune checkpoint inhibitor and an experimental compound that makes tumor cells easier for immune cells to find. They saw more small cell lung cancer (SCLC) tumor growth suppression after treatment with the combination compared to treatment with the checkpoint inhibitor alone. Based on these results, the team initiated a clinical trial to test the strategy in patients with advanced SCLC and have begun enrolling participants. [Read More](#)

PedAL Initiative 'Dares' to Transform Treatment and Care for Kids with Blood Cancer

Seattle Children's



Seattle Children's is actively working to identify, validate, and innovate how children with pediatric acute leukemia, including acute myeloid leukemia and other high-risk leukemias, are treated through a collaborative master screening clinical trial led by The Leukemia & Lymphoma Society (LLS) called Pediatric Acute Leukemia (PedAL). The PedAL Master Trial is part of LLS's Dare to Dream Project, which is focused on transforming treatment and care for kids with blood cancer. [Read More](#)

SEngine Precision Medicine Closes Series a Bringing Total Financing to \$19M Enabling Continued Advancement of Personalized Cancer Treatments

BioSpace



SEngine Precision Medicine has now raised a total of \$19M, following the recent closing of a \$10M Series A2, as it continues to commercialize a platform that matches cancer patients to the right drug and also drives drug discovery. The company, a 2015 Fred Hutch spinout, is leveraging over two decades of R&D in diagnostics and drug discovery to revolutionize cancer therapies by pre-testing drugs on patient-derived live tumor cells, outside the patient's body. [Read More](#)

UW Medicine-BBI SCAN Program Sunsetting; Seattle Flu Study becomes Seattle Flu Alliance

Brotman Baty Institute (BBI)



The Seattle Flu Study (SFS) and Greater Seattle Coronavirus Assessment Network Study (SCAN) ended their active recruitment and research on July 31, 2022, after years of contributing to scientific discovery and improving public health in Seattle. SFS researchers and principal investigators will continue to study respiratory viruses through the Seattle Flu Alliance, which is expanding to include other organizations and new initiatives. [Read More](#)

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Interesting Articles
What a Big New US Law That Reshapes Science Agencies Could Mean for Researchers

ScienceInsider



More than two years in the making, a massive bill that Congress recently completed aims high: It envisions a five-year, \$280 billion investment to keep the US ahead of China in a global competition for technological preeminence. The CHIPS and Science Act will result in some of the biggest changes in US innovation policy in more than a decade. But researchers should not expect a surge of new funding anytime soon. [Read More](#)

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Upcoming Events in Seattle

August 13 8:00 AM	Obliteride UW Parking Lot (E18)
August 18 4:30 PM	Life Science Washington Annual Summer Social Rooftop Deck Seattle
August 21 - September 4 9:00 AM	Summer Workshop on the Dynamic Brain Allen Institute
September 7 8:30 AM	2022 From the Laboratory to Leadership – Virtual Fall Program Online
September 9 - 10 9:00 AM	5th Symposium on Cancer Survivorship for Clinicians Bell Harbor International Conference Center

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Science Jobs in Seattle

- Postdoctoral Research Associate**
Benaroya Research Institute at Virginia Mason
- Mass Spectrometry Specialist I-II**
Fred Hutch
- Research Technician IV**
Seattle Children's
- Research Associate I**
Adaptive Biotechnologies
- Scientist II, Single Cell Genomics, Molecular Genetics**
Allen Institute

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