

Publications of the Week
Increasing Fatty Acid Oxidation Prevents High Fat Diet Induced Cardiomyopathy through Regulating Parkin Mediated Mitophagy

 First Author: Dan Shao (*pictured, back row, center*) | Senior Author: Rong Tian (*pictured, far left*)
 Circulation | UW


The authors showed that increasing cardiac fatty acid oxidation (FAO) alone did not cause cardiac dysfunction but protected against cardiomyopathy in chronically obese mice. The beneficial effect of enhancing cardiac FAO in high fat diet-induced obesity was mediated, in part, by maintenance of mitochondria function through regulating parkin mediated mitophagy. [Profile](#) | [Abstract](#)

The NK Cell–Cancer Cycle: Advances and New Challenges in NK Cell–Based Immunotherapies

 First Author: Tobias Bald | Senior Author: Kevin Barry (*pictured*)
 Nature Immunology | Fred Hutch


Natural killer (NK) cells belong to the innate immune system and contribute to protecting the host through killing of infected, foreign, stressed or transformed cells. Additionally, via cellular cross-talk, NK cells orchestrate antitumor immune responses. The authors introduce the NK cell–cancer cycle to highlight recent advances in NK cell biology and to discuss the progress and problems of NK cell–based cancer immunotherapies. [Abstract](#)

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Awards
GeekWire Awards 2020 Revealed: Fred Hutch Wins Health Innovation of the Year

GeekWire



At a time when its work is taking on some of the most pressing and complex problems in health sciences, it might be tough to focus on just one innovation from Seattle's Fred Hutch. The center was recognized for how researchers have demonstrated the effectiveness of a new method for getting immune cells to fight solid tumors — by spreading them like jam onto ultra-thin sheets of metal mesh, and then laying the mesh onto the tumors. Dr. Matthias Stephan (*pictured*) accepted the award. [Read More](#)

\$3.4 Million Grant to Find Safer, More Effective Leukemia Treatments

Fred Hutch



Dr. Johnnie Orozco (*pictured*), a physician-scientist at Fred Hutchinson Cancer Research Center, wants to expand access to bone marrow transplants by delivering them with a gentler touch. He has been awarded a new five-year, \$3.4 million grant from the National Institutes of Health to develop safer, more targeted therapies to treat people with acute myeloid leukemia. [Read More](#)

ASHG Honors Peter Byers, MD with the 2020 Victor A. McKusick Leadership Award

American Society of Human Genetics



The American Society of Human Genetics (ASHG) has named Peter Byers (*pictured*) as the 2020 recipient of the Victor A. McKusick Leadership Award. The award is named in honor of the late Victor A. McKusick, and is bestowed upon an individual who has exhibited exemplary leadership and vision in advancing the ASHG mission through the promotion and successful assimilation of genetics and genomics knowledge into the broader scientific community. [Read More](#)

Dr. Rob Bradley Named New McIlwain Family Endowed Chair in Data Science

Fred Hutch



Fred Hutch computational biologist Dr. Rob Bradley (*pictured*) was recently named the new McIlwain Family Endowed Chair in Data Science. Funding provided by the honor will support Bradley's use of computational methods to seek molecular patterns in large datasets that shed light on cancer biology and help point the way toward new therapies for cancer and related diseases. [Read More](#)

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Local News
Engineered T Cells Show Promise as Effective Preventative for Diabetes

Insulin in Nation



In 2015, Dr. David Rawlings (*pictured*), Director of Seattle Children's Research Institute's Center for Immunity and Immunotherapies, showed how he and his team were able to target a specific receptor on precursor immune cells to transform them into regulatory T cells. Now, after spending the last five years refining his methods to treat type 1 diabetes specifically, Dr. Rawlings has made huge progress toward what he views as a potential preventative for this life-altering disease. [Read More](#)

New PI Explores How COVID-19 Affects Lungs

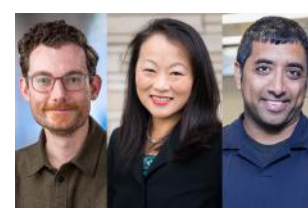
Benaroya Research Institute at Virginia Mason (BRI)



BRI's newest Principal Investigator, Carmen Mikacenic (*pictured*), is used to working with dangerous pathogens. Still, when she started studying aspects of COVID-19, she took extra precautions. Before she came to BRI, her team at UW Medicine collected tissue samples from local COVID-19 patients who needed ventilators, and Dr. Mikacenic made sure to analyze the first several samples herself. [Read More](#)

How a Group of Seattle Scientists Revealed COVID-19's Stateside Spread

Brotman Baty Institute



The Greater Seattle Coronavirus Assessment Network Study's researchers, including Drs. Jay Shendure (*pictured, right*), Trevor Bedford (*left*), and Helen Chu (*middle*), contribute to an effort that sends COVID-19 test kits to homes throughout the city. Supported by Gates Ventures and other local partners, these self-collected exams involve little more than a swirl of a swab yet reveal vital information about the spread of COVID-19. [Read More](#)

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Upcoming Events in Seattle

August 4 7:00 PM	Science in the City: The Art and Science of Making Games Online
August 5 9:00 AM	Webinar: Impact of SARS-CoV-2 Infection on the Central Nervous System Online
August 13 5:30 PM	Virtual Science of Spirits: Glass Vodka Online
August 14 - 16 8:00 AM	SciComm 2020 Online
September 2 8:30 AM	2020 From the Laboratory to Leadership – Fall Program Online

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Science Jobs in Seattle

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