

Publications of the Week

Quadrivalent Influenza Nanoparticle Vaccines Induce Broad Protection

First Authors: Seyhan Boyoglu-Barnum and Daniel Ellis (*pictured*) | Senior Authors: Masaru Kanekiyo and Neil King Nature | Institute for Protein Design and UW



Influenza vaccines that confer broad and durable protection against diverse viral strains would have a major effect on global health, as they would lessen the need for annual vaccine reformulation and immunization. The authors show that computationally designed, two-component nanoparticle immunogens induce potently neutralizing and broadly protective antibody responses against a wide variety of influenza viruses. [Profile](#) | [Abstract](#)

Healthy Aging and the Blood–Brain Barrier

First Author: William Banks (*pictured*) | Senior Author: Michelle Erickson Nature Aging | Geriatrics Research Education and Clinical Center and UW School of Medicine



The blood–brain barrier (BBB) protects the central nervous system from unregulated exposure to the blood and its contents. The authors discuss how alterations in the BBB that occur with healthy aging reflect adaptation to the postreproductive phase of life and may affect vulnerability to age-associated diseases. [Abstract](#)

Uncovering Pathways to Personalized Therapies in Type 1 Diabetes

First Author: Peter Linsley | Senior Author: Gerald Nepom (*pictured*) Diabetes | Benaroya Research Institute at Virginia Mason



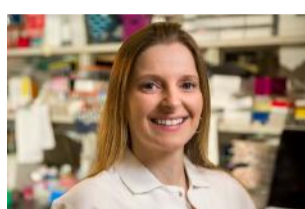
The goal of personalized medicine is to match the right drugs to the right patients at the right time. Personalized medicine has been most successful in cases where there is a clear genetic linkage between a disease and a therapy. This is not the case with type 1 diabetes, a genetically complex immune-mediated disease of β -cell destruction. [Abstract](#)

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Awards

ITHS Welcomes 2021 Pilot Awardees

Institute of Translational Health Sciences



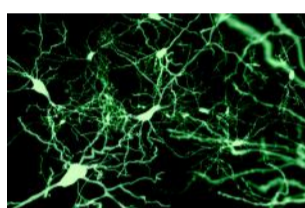
The Institute of Translational Health Sciences (ITHS) has announced the 2021 Pilot Award recipients. Investigators supported by the Pilot Program, including Dr. Kristin Anderson (*pictured*) at Fred Hutch, are expanding knowledge in rural health care delivery, tissue bioengineering, suicide prevention, epilepsy, cardiology, or diabetes. [Read More](#)

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Local News

Modified, Harmless Viruses That Light up Neurons in Glowing Color Could One Day Deliver Treatments for Deadly Brain Diseases

Allen Institute for Brain Science



Two new studies, led by researchers at the Allen Institute for Brain Science, a division of the Allen Institute, describe modified viruses that can deliver fluorescent labels to a single cell type in the mouse, monkey, or human brain. Lighting up individual cell types will help researchers better understand what those cells do in the brain — what they look like, who they talk to, and where they live. [Read More](#)

Fred Hutch Scientist Answers Latest COVID-19 Questions on Vaccines, Variants, and More

GeekWeek



If you have a stronger reaction to the COVID-19 vaccines, does that mean you'll be rewarded with extra immunity? Not necessarily, says Dr. Jim Kublin (*pictured*), principal staff scientist with the Vaccine and Infectious Disease Division at Fred Hutchinson Cancer Research Center, who also works with the COVID-19 Prevention Network. [Read More](#)

Nanoparticle Flu Shot Blocks Seasonal and Pandemic Strains

UW Medicine



Researchers have developed experimental flu shots that protect animals from a wide variety of seasonal and pandemic influenza strains. The vaccine product is currently being advanced toward clinical testing. If proven safe and effective, these next-generation influenza vaccines may replace current seasonal options by providing protection against many more strains that current vaccines do not adequately cover. [Read More](#)

Neuroscience Company Uncloaks to Fight Chronic Pain, Depression and More

BioSpace



Seattle-based Eliem Therapeutics emerged from stealth mode with \$80 million in financing that will be used to develop therapeutics aimed at treating neuronal excitability disorders such as chronic pain, depression, epilepsy, and anxiety. The disorders Eliem is targeting have a wide patient population across the globe. [Read More](#)

Faculty Spotlight: Dr. Rachel Issaka

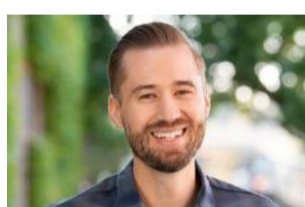
UW Medicine



Dr. Rachel Issaka (*pictured*) is a gastroenterologist at Seattle Cancer Care Alliance and UW Medical Center and a health services researcher with the Fred Hutchinson Institute for Cancer Outcomes Research. She specializes in digestive issues associated with cancer or cancer treatment, and her research is dedicated to reducing racial disparities in colorectal cancer outcomes. [Read More](#)

Biotech Startup AbSci Raises \$125M for 'Protein Printing' Tech; Total Funding up to \$230M

GeekWire



Biotech AbSci, founded by Sean McClain (*pictured*), raised \$125 million in a round led by Casdin Capital and Redmile Group. Founded in 2011, AbSci's "Protein Printing" technology is used to discover and manufacture complex biological molecules such as antibodies and insulin. The idea is to reduce failure rates and accelerate development of protein biomufacturing. [Read More](#)

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Upcoming Events in Seattle

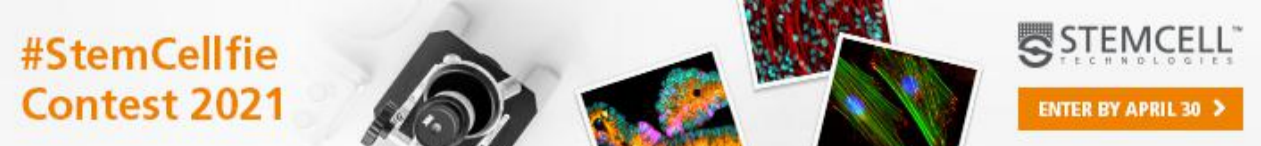
April 5 8:00 AM	Deep Mutational Scanning Symposium Online
April 6 5:00 PM	Webinar Series: The Microbiome and Lifestyle Online
April 8 12:00 PM	ISCRM Annual Stem Cell Mini-Symposium 2021 Online
April 8 5:00 PM	GU Oncology Seminar Series Online
April 15 3:30 PM	Women Who Lead in Health Care Online

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Science Jobs in Seattle

- Bioinformatician I-II**
Benaroya Research Institute at Virginia Mason
- Postdoctoral Research Fellow, Innate Immunity to HIV-1**
Fred Hutch
- Research Scientist II, GMP**
Seattle Children's
- Associate Director, Gene Editing Protein Engineering and Genomics**
Bluebird Bio
- Laboratory Technical Supervisor**
Adaptive Biotechnologies

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