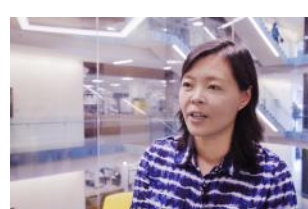


Publications of the Week

A Taxonomy of Transcriptomic Cell Types across the Isocortex and Hippocampal Formation

First Author: Zizhen Yao | Senior Author: Hongkui Zeng (pictured)
Cell | Allen Institute for Brain Science



The isocortex and hippocampal formation (HPF) in the mammalian brain play critical roles in perception, cognition, emotion, and learning. The authors profiled ~1.3 million cells covering the entire adult mouse isocortex and HPF and derived a transcriptomic cell-type taxonomy revealing a comprehensive repertoire of glutamatergic and GABAergic neuron types. [Profile](#) | [Abstract](#) | [Press Release](#)

mRNA Translation Is a Therapeutic Vulnerability Necessary for Bladder Epithelial Transformation

First Author: Sujata Jana (pictured, right) | Senior Author: Andrew Hsieh (left)
JCI Insight | Fred Hutch, UW Medicine, and UW



The authors demonstrate that protein synthesis is essential for efficient urothelial cancer formation and growth, but dispensable for bladder homeostasis. They discovered that phosphorylation of the translation initiation factor eIF4E at serine 209 is increased in both murine and human bladder cancer which corresponds with an increase in *de novo* protein synthesis. [Profile](#) | [Abstract](#) | [Press Release](#)

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Awards

2021 Chair of Medicine Scholars

UW



Dr. McKenna Eastment (pictured) is one of the 2021 Chair of Medicine Scholars Award recipients. She is a senior fellow/acting instructor in the Division of Allergy and Infectious Diseases. This award is given annually to meritorious UW Medicine trainees to foster the transition of awardees to the roles of physician-scientist and principal investigator as young faculty members. [Read More](#)

BBI 'Catalytic Collaboration' Grant Leads to 'Extraordinary' Progress in Research for Directing Treatment of Multiple Myeloma Patients

Brotman Baty Institute (BBI)



Drs. David Coffey and Pamela Becker (pictured), funded by a \$150,000 "Catalytic Collaboration Grant", conducted clinical trials to determine the feasibility of high-throughput screening (HTS) of 170 different cancer drugs. HTS enabled them to measure the ability of drugs to kill cancer cells from a patient's tumor biopsy in a laboratory setting. [Read More](#)

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Local News

Prostate Cancer Researcher Dr. Janet Stanford Retires after Three Decades

Fred Hutch



After more than 30 years of studying prostate cancer genetics, risk factors and treatment outcomes, Dr. Janet Stanford (pictured) has retired. Dr. Stanford and colleagues have identified a number of genetic variants that alter one's likelihood of developing prostate cancer, having more aggressive disease or of dying from the cancer. [Read More](#)

BBI Faculty Conversations – Dr. Sarah Leary

Brotman Baty Institute (BBI)



BBI member Dr. Sarah Leary (pictured) discusses her work and the field of precision medicine in this edition of BBI Faculty Conversations. She is an attending physician in the Cancer and Blood Disorders Center at Seattle Children's and Associate Professor of Pediatrics at UW Medicine. Dr. Leary got involved in pediatric brain tumors when she was a fellow in training. [Read More](#)

Nanoparticle Flu Shot Blocks Seasonal and Pandemic Strains

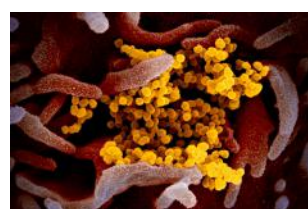
Institute for Protein Design (IPD)



IPD researchers together with collaborators at the National Institutes of Health (NIH) have developed experimental flu shots that protect animals from a wide variety of seasonal and pandemic influenza strains. The lead vaccine candidate has entered human clinical testing at the NIH. If it proves safe and effective, these next-generation influenza vaccines may replace current seasonal options. [Read More](#)

Omeros Announces Preliminary Results from Additional Critically Ill COVID-19 Patients Treated with Narsoplimab

Omeros



Omeros has announced preliminary results from the second cohort of critically ill COVID-19 patients treated with narsoplimab. These patients were part of the "second surge" of COVID-19 in Italy. Narsoplimab is the company's lead inhibitor of mannan-binding lectin-associated serine protease 2, the effector enzyme of the lectin pathway of complement. [Read More](#)

Kidney Chip Studies Trek Again to Space Station

UW Medicine



Miniaturized chips developed by UW researchers containing live, human kidney cells boarded the June 3 Space X cargo supply Mission 22 to the International Space Station. Inside the 3D chips, the cells are kept alive in a tiny system that delivers fluids dynamically. These tissue chips model responses that take place along the hard-working tubules of kidneys. [Read More](#)

Oisín Raises \$5M to Develop Treatments for 'Zombie Cells' Associated with Age-Related Diseases

GeekWire



Seattle biotech startup Oisín Biotechnologies has raised a \$5 million seed round. It's currently developing preclinical therapies that target and kill damaged cells that have been biologically turned off or are "senescent" and supposed to die. But as people get older, the cells can persist as "zombie cells" that accumulate and are associated with aging-related diseases. [Read More](#)

Seattle Children's Researchers Discover That Functional COVID-19 Antibodies Are Lost Quickly After Mild Cases

Seattle Children's



Researchers noticed that Immunoglobulin M (IgM) antibodies declined in perfect correlation with the loss of neutralizing activity against SARS-CoV-2. IgMs provide a transient response until more mature antibodies, known as IgGs, arrive to provide a more sustained antiviral response to an infection. "IgM level was the strongest predictor of neutralization against the virus" says Dr. Whitney Harrington (pictured). [Read More](#)

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Interesting Articles

Senate Confirms Eric Lander to Lead White House Science Shop

Science



The US Senate has confirmed mathematician and geneticist Dr. Eric Lander as Director of the White House Office of Science and Technology Policy. Dr. Lander will also serve as President Joe Biden's Science Adviser and hold a seat in Biden's Cabinet. He has long held prominent roles in US research at the Broad Institute and science policy during the Obama administration. [Read More](#)

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Upcoming Events in Seattle

- June 10 9:30 AM **Allen Institute Distinguished Seminar Series: Dr. Gaspar Jékely** Online
- June 10 5:00 PM **GU Oncology Seminar Series** Online
- June 10 6:00 PM **Dr. Temple Grandin with Dr. Jim Heath** Online
- June 11 10:00 AM **Open for (Cell) Science: Allen Cell Collection** Online
- June 15 11:30 AM **2021 Brain Initiative Investigators Meeting** Online

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Science Jobs in Seattle

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- Research Associate, Experimental Immunology**
Allen Institute for Immunology
- Senior Research Associate**
A-Alpha Bio
- Postdoctoral Research Associate**
Benaroya Research Institute at Virginia Mason
- Project Manager II, Cancer Research Studies**
Fred Hutch

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