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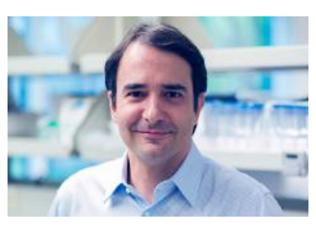
Publications of the Week

Embryonic Barcoding of Equipotent Mammary Progenitors Functionally Identifies Breast Cancer Drivers

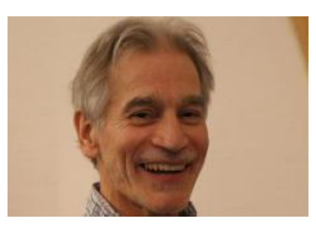
First Author: Zhe Ying | Senior Author: Slobodan Beronja *(pictured)*
Cell Stem Cell | Fred Hutch



Identification of clinically relevant drivers of breast cancers in intact mammary epithelium is critical for understanding tumorigenesis, yet has proven challenging. The authors have shown that intra-amniotic lentiviral injection efficiently transduced progenitor cells of the adult mammary gland, and used that as a platform to functionally screen over 500 genetic lesions for functional roles in tumor formation. **Abstract**

STAT Signaling Modifies Ascl1 Chromatin Binding and Limits Neural Regeneration from Muller Glia in Adult Mouse Retina

First Author: Nikolas Jorstad | Senior Author: Thomas Reh *(pictured)*
Cell Reports | UW



Müller glia (MG) serve as sources for retinal regeneration in non-mammalian vertebrates. The authors have found that this process could be induced in mouse MG after injury by transgenic expression of the proneural transcription factor Ascl1 and the HDAC inhibitor TSA. They tested whether injury-induced STAT activation hampered the ability of Ascl1 to reprogram MG into retinal neurons. **Abstract**

View All Publications

Awards

Seattle Business Magazine’s 2020 Leaders in Healthcare Awards

Seattle Business

Dr. Jay Shendure *(pictured)* spends his days working to prevent and treat cancer. Samaritan Healthcare CEO Theresa Sullivan is focused on access to medicine in rural communities. They are two of the 17 organizations and individuals across the state that *Seattle Business* magazine has recognized for their cutting-edge research and innovative approaches in an increasingly evolving and complicated health care environment. **Read More**

View All Awards

Local News

COVID-19 Coronavirus Spike Holds Infectivity Details

UW Medicine

The spikes crowning the new coronavirus that causes COVID-19 atypical pneumonia are divulging how they attach, fuse and gain entry to cells. Dr. Alexandra Walls *(pictured)* and colleagues at UW Medicine and Fred Hutch are using cryo-electron microscopy and other investigative methods to locate the virus’ vulnerabilities, and reveal other information that could prompt the discovery of countermeasures. **Read More**

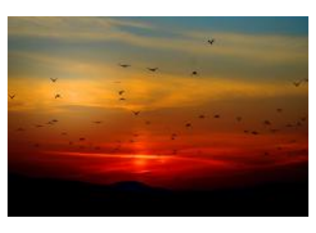
ISB Researchers Seek a Better Way to Identify Chronic Mild Traumatic Brain Injury

Institute for Systems Biology

Mild traumatic brain injury (mTBI) — commonly known as a concussion — has been a frequent injury among U.S. combatants serving in Afghanistan and Iraq. Researchers at Institute for Systems Biology (ISB), led by Principal Scientist Dr. Kai Wang *(pictured)*, are working to develop new methods to identify molecular changes in the blood of war veterans diagnosed with chronic mTBI. **Read More**

Let There Be ‘Circadian’ Light

UW Medicine



Investigators at UW have found that the wavelengths at sunrise and sunset have the biggest impact to brain centers that regulate our circadian clock and our mood and alertness. Lead author Sara Patterson, a graduate student in neuroscience at the UW School of Medicine, has said that how we set our internal clocks to the external light-dark cycle has been studied a lot. But how the changes in the color of light affect our brain has not. **Read More**

SEngine Co-Founder Says Gap between Innovation in Medicine and Adoption Is Major Concern

Biz Journals

Dr. Carla Grandiori *(pictured)*, who co-founded SEngine Precision Medicine five years ago, has been named as an Innovator of the Year by the Puget Sound Business Journal. In this interview with the journal, she talks about the biggest risk that she's taken, her first use of creativity, and concerns regarding the use of innovation in the region. **Read More**

Fred Hutch Research a GeekWire Award Finalist for Health Innovation of the Year

Fred Hutch

Fred Hutch has been selected as one of this year’s GeekWire Award finalists for Health Innovation of the Year, which recognizes innovative products in the health, life sciences, medical or biotech realms. Fred Hutch was nominated for Dr. Matthias Stephan's *(pictured)* research on using thin metal mesh loaded with immune cells to target solid tumors. **Read More**

Oisín Biotechnologies Included in *MIT Technology Review’s* “TR10” List of Top 10 Breakthrough Technologies of 2020

Business Wire

Oisín Biotechnologies, a privately held, preclinical biotechnology company co-founded by Matthew Scholz *(pictured)*, has been included in *MIT Technology Review’s* TR10 list of the Top 10 Breakthrough Technologies of 2020. The publication has recognized Oisín as a key player in the development of anti-aging therapeutics, which *MIT Technology Review’s* editorial team believe have the potential to impact medicine on a time horizon shorter than five years. **Read More**

A Look Inside the Cure Factory, Seattle Children’s New Cell Therapy Lab

Seattle Daily Journal of Commerce

Cell therapy is showing incredible promise in treating several devastating diseases. The Cure Factory is Seattle’s newest cell therapy facility, recently opened by Seattle Children’s Research Institute at Building Cure. Building Cure is the Northwest’s first high-rise cell therapy building — a vertically-integrated system to cure childhood diseases, from development of new cures to programming the cells of patients. **Read More**

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Upcoming Events in Seattle

March 5 7:30 PM	**Dr. David Eagleman: Can We Create New Senses For Humans?** The Great Hall
March 7 8:00 PM	**Geeky Open Mic** Wayward Coffeehouse Roosevelt
March 7 10:00 AM	**Cancer Research Institute Immunotherapy Patient Summit** Fred Hutchinson Cancer Research Center
March 10 6:30 PM	**The Collective: 3D Organ Printing and Other Bio-Powered Technology Reshaping Medicine with Kelly Stevens** The Collective
March 12 5:00 PM	**Life Science Industry Seattle Networking Event** Life Science Washington HQ

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Science Jobs in Seattle

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Adaptive Biotechnologies

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Seattle Genetics

Post-Doctoral Research Fellow, Vaccine and Infectious Disease
Fred Hutchinson Cancer Research Center

Research Supervisor
Seattle Children's Research Institute

Research Associate, Raw Material Performance Testing
Bristol-Myers Squibb

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