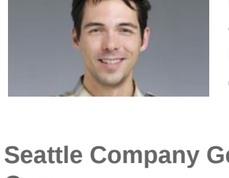
Volume 3.13: April 13, 2020

Publications of the Week

Phenomics-Based Quantification of CRISPR-Induced Mosaicism in Zebrafish

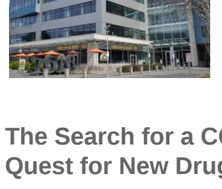
First Author: Claire Watson *(pictured, right)* | Senior Author: Ronald Kwon *(second from right)*
Cell Reports | Institute for Stem Cell and Regenerative Medicine and UW



Genetic mosaicism can manifest as spatially variable phenotypes that vary from site to site within an organism. The authors used imaging-based phenomics to quantitate phenotypes at many sites within the axial skeleton of CRISPR-edited G0 zebrafish. They describe statistical frameworks for phenomic analysis of spatial phenotypic variation present in somatic G0 mutants. **Profile | Abstract**

Resolving the Synaptic versus Developmental Dichotomy of Autism Risk Genes

First Author: Whitney Heavner | Senior Author: Stephen Smith *(pictured)*
Trends in Neurosciences | Seattle Children's Research Institute and UW Medicine



By homing in on specific biological processes that are disrupted in different autism spectrum disorder (ASD) models, one may be able to identify biologically relevant subtypes among heterogeneous patient cohorts. The authors argue that for many patients with ASD, this subgrouping could be more amenable to precision medicine than subgrouping based on behavioral or genetic approaches. **Abstract**

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Local News

Hutch Team Hunts for Coronavirus Antibodies

Fred Hutch

A team of scientists at Fred Hutch is working to identify, from the blood of COVID-19 survivors, immune proteins that one day might be used to keep the virus from infecting others. According to Fred Hutch immunologist Dr. Leo Stamatatos *(pictured)*, the technique has pinpointed several antibodies that bind directly to the spike-like structures that dot the surface of the virus. **Read More**

A Cheaper Way to Study the Immune System, One Cell at a Time

Fred Hutch

Your immune system is dizzyingly complex. Recently, scientists have developed powerful tools to help identify which cells are doing what. Dr. Florian Mair *(pictured)* and colleagues at Fred Hutch want to help bring these tools to the masses. They have developed a new way of analyzing single cells that can be up to five times cheaper than existing methods. **Read More**

Seattle Company Gets Green Light for Human Tests on Potential COVID-19 Cure

KOMO News

Seattle's Infectious Disease Research Institute has gotten the green light from the FDA to conduct human tests on what it hopes will be a treatment for the COVID-19 disease. The study will enroll 100 patients who have been diagnosed with pneumonia caused by COVID-19. Those patients will be provided an infusion of the new treatment. **Read More**

The Search for a COVID-19 Cure: Amgen and Adaptive Biotech Partner in Quest for New Drug

GeekWire

Pharmaceutical giant Amgen is aiming to develop a new drug to treat and prevent COVID-19, using insights from Seattle-based Adaptive Biotechnologies' system for sequencing the human immune system. Adaptive was founded in 2009 by brothers Chad Robins *(pictured)*, a Cornell grad and Wharton School MBA, and Harlan Robins, longtime head of the Computational Biology Program at Fred Hutch. **Read More**

Turning Cells into Computers with Protein Logic Gates

UW Medicine

Zibo Chen *(pictured)* and colleagues at the UW School of Medicine have created artificial proteins that function as molecular logic gates. These tools, like their electronic counterparts, can be used to program the behavior of more complex systems. They showed that the new designer proteins can regulate gene expression inside human T cells. This development may improve the safety and durability of future cell-based therapies. **Read More**

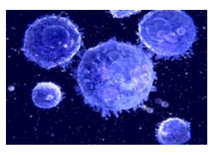
Allen Institute Announces New Phase of Neuroscience Research

Allen Institute for Brain Science

The Allen Institute has announced new phases of research for its largest division, the Allen Institute for Brain Science, as well as a leader hired to direct a new neuroscience-related division of the Institute. This change reflects a structural transition for the Allen Institute for Brain Science as it nears the end of its current 10-year scientific timeline. **Read More**

COVID-19: What Our Scientists Are Saying

Fred Hutch



Fred Hutch researchers are committed to ending the COVID-19 pandemic — from vaccines to developing COVID-19 diagnostic and serology tests to modeling the spread of the virus. In this article, front-line researchers provide their insights and ideas on the pandemic, including discussing the research, risk for patients, and how the pandemic has changed science. **Read More**

Blaze Bioscience Gets Fast Track Approval from FDA for 'Tumor Paint' That Helps Remove Brain Tumors

GeekWire

Seattle biotech company Blaze Bioscience has received Fast Track designation from the FDA for a clinical program evaluating tozuleristide. Also known as BLZ-100, tozuleristide is what the company refers to as "Tumor Paint," a molecule that binds to cancer cells and lights them up to help brain surgeons remove tumors. It was created using a peptide from the Israeli deathstalker scorpion. **Read More**

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Upcoming Events in Seattle

April 20 9:00 AM	**Webinar: Hematopoietic Cell Therapy Products – Determining Potency and Stability** Online
April 21 12:00 PM	**Women in Bio National Webinar: Fundraising Boot Camp for Life Science Startups: Successful Partnering** Women in Bio
April 21 12:00 PM	**Webinar: From ACE2 to COVID19** Online
April 22 4:00 PM	**Science Matters: Curiosity Drives Discovery** Online
April 23 3:00 PM	**Responding to COVID-19: A Ground-Zero Perspective from Washington's Life Science Community** Online

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Science Jobs in Seattle

Senior Research Scientist, Genetics
UW Department of Laboratory Medicine

Scientific Project and Alliance Manager
Allen Institute for Brain Science

Associate Scientist, Cell Line & Upstream Development
Systimmune

QC Scientist
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Research Scientist II
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