

Publications of the Week

Complete Single Neuron Reconstruction Reveals Morphological Diversity in Molecularly Defined Claustal and Cortical Neuron Types

First Author: Yun Wang | Senior Author: Hongkui Zeng *(pictured)*
bioRxiv | Allen Institute for Brain Science



Our knowledge about the diversity of neuronal morphology, in particular its distant axonal projections, is extremely limited. To systematically obtain single neuron full morphology on a brain-wide scale in mice, the authors established a pipeline that encompasses five major components: sparse labeling, whole-brain imaging, reconstruction, registration, and classification. [Abstract](#)

Intratumoral Activation of the Necroptotic Pathway Components RIPK1 and RIPK3 Potentiates Antitumor Immunity

First Author: Annelise Snyder | Senior Author: Andrew Oberst *(pictured)*
Science Immunology | UW



Although the signaling events that induce different forms of programmed cell death are well defined, the subsequent immune responses to dying cells in the context of cancer remain relatively unexplored. The authors show that ectopic introduction of necroptotic cells to the tumor microenvironment promoted BATF3⁺ cDC1⁺ and CD8⁺ leukocyte-dependent antitumor immunity accompanied by increased tumor antigen loading by tumor-associated antigen-presenting cells. [Abstract](#)

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Spotlight

Dr. Cate Speake Talks Biorepositories and Immune Health



Dr. Cate Speake *(pictured)* is a Research Assistant Member at Benaroya Research Institute (BRI) at Virginia Mason, where she is investigating biomarkers for type 1 diabetes. She also plays a central role in BRI's biorepositories, including being the Project Lead on a new project to profile the healthy immune system in partnership with the Allen Institute for Immunology. We sat down with Dr. Speake to discuss this partnership, and how it relates to the biorepositories at BRI.

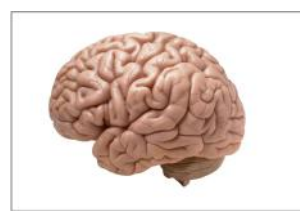
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Local News

Would You Donate Part of Your Living Brain to Science? This Man Did.

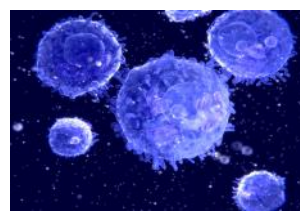
The Seattle Times



Here's an offer most people can easily refuse: Donate part of your brain to science — while you're still alive. But, in the Seattle area, about 50 people every year say, "Sure." At most hospitals, the bits of normal tissue excised during surgeries for epilepsy or brain tumors are burned as medical waste. But to scientists in Seattle, they're a treasure trove — an astonishingly rare opportunity to peer into the workings of the living human brain. [Read More](#)

Immunotherapy Prevents Relapse in Small Leukemia Trial

Fred Hutch



The statistics are grim: For patients with high-risk acute myeloid leukemia, more than 60% will relapse within two years of a bone marrow transplant. The return of their cancer is the leading cause of death for these patients. But results from a small trial of genetically modified immune cells by scientists at Fred Hutch hint at a way of protecting these patients. [Read More](#)

Personalizing Treatment for Type 1 Diabetes

Benaroya Research Institute at Virginia Mason



Benaroya Research Institute at Virginia Mason's Matt Dufort *(pictured, right)* and Peter Linsley *(left)* have led two new studies that could help doctors predict how quickly type 1 diabetes (T1D) will progress in some people, and match them with treatments that could slow it down. Their findings could enable precision medicine for more T1D patients. [Read More](#)

Top Pediatric Physician-Scientist Chosen to Lead Kaiser Permanente Washington Health Research Institute

Kaiser Permanente Washington Health Research Institute



Dr. Rita Mangione-Smith *(pictured)* has been selected as the new Vice President for Research and Health Care Innovation and Executive Director of Kaiser Permanente Washington Health Research Institute. Well-known nationally for her research in improving care for children, Dr. Mangione-Smith has focused on developing and implementing quality improvement interventions for several areas of care. [Read More](#)

Hail to the Fiber King: A Profile of Hao Shen

UW Molecular Engineering & Sciences Institute



Hao Shen *(pictured)* is the first student to graduate from UW with a PhD in Molecular Engineering. When it came time to apply to graduate school, the UW Molecular Engineering & Sciences Institute had just started to recruit students to a new molecular engineering PhD program designed to foster the translation and communication of ideas across multiple academic disciplines. Hao joined the first cohort in 2014 as the only international student. [Read More](#)

Amgen and the Institute for Protein Design at University Of Washington Announce Unique Strategic Research Partnership

Amgen



Amgen and UW's Institute for Protein Design (IPD) have announced a broad collaboration that will cover multiple projects with a goal of testing new technologies and creating protein-building approaches that can be broadly applied to the search for new medicines. Amgen has provided initial funding for three sponsored research projects that will seek to apply IPD's *de novo* design technique to increase the versatility of traditional protein-based medicines. [Read More](#)

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 **Upcoming Events in Seattle**

July 18 11:30 AM	2019 Hutch Award Luncheon T-Mobile Park
July 25 8:00 AM	Exploring Frontiers: Predicting Biology Allen Institute
July 26 8:00 PM	THEORY Pacific Science Center
July 30 - 31 8:00 AM	Introduction to Clinical Research Boot Camp Husky Union Building
August 6 5:30 PM	Women In Bio Annual Summer Social & Networking Mixer 1551 Eastlake Ave. E.

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 **Science Jobs in Seattle**

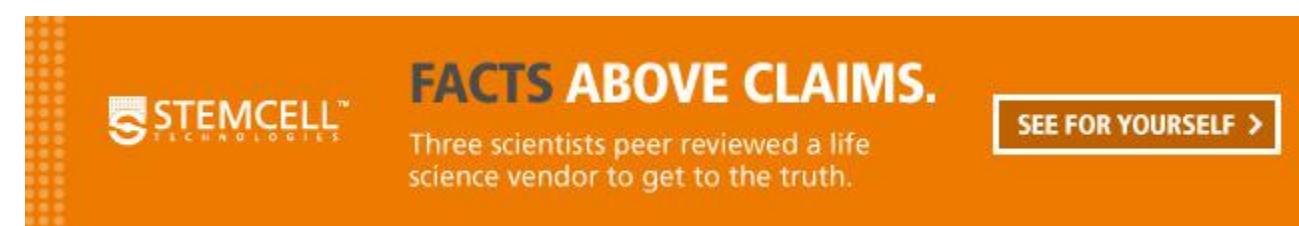
- Vice President, Translational Sciences**
Zymeworks
- Life Science Research Scout (Project Term)**
The Paul G. Allen Frontiers Group
- Scientist, Quantitative Cell Biologist**
Allen Institute for Cell Science
- Research Scientist, Immunology and Inflammation**
Gilead
- Associate Scientist, Nuclease Engineering**
Bluebird Bio

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