

Publications of the Week
Integrated Morphoelectric and Transcriptomic Classification of Cortical GABAergic Cells

First Authors: Nathan Gouwens and Staci Sorensen (*pictured, left and middle*) | Senior Author: Gabe Murphy (*pictured, right*)
Cell | Allen Institute for Brain Science



To better constrain the definition of neuronal cell types, the authors characterized the transcriptomes and intrinsic physiological properties of over 4,200 mouse visual cortical GABAergic interneurons and reconstructed the local morphologies of 517 of those neurons. They found that most transcriptomic types (t-types) occupy specific laminar positions within visual cortex, and, for most types, the cells mapping to a t-type exhibited consistent electrophysiological and morphological properties. [Abstract](#) | [Press Release](#)

HDAC6 Promotes Growth, Migration/Invasion, and Self-Renewal of Rhabdomyosarcoma

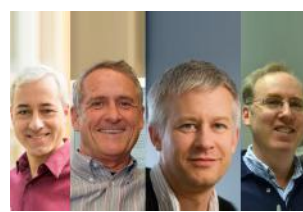
First Author: Thao Pham | Senior Author: Eleanor Chen (*pictured*)
Oncogene | UW



In this study, the authors used functional assays *in vitro* and *in vivo* (zebrafish and xenograft mouse models) to demonstrate the crucial role of HDAC6, a cytoplasmic histone deacetylase, in driving rhabdomyosarcoma tumor growth, self-renewal, and migration/invasion. Treatment with HDAC6-selective inhibitors recapitulated the HDAC6 loss-of-function phenotypes. [Abstract](#)

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Awards
Four UW Faculty Members Named AAAS Fellows for 2020

UW



The American Association for the Advancement of Science (AAAS) has named four UW faculty members as AAAS Fellows. Drs. Pedro Domingos, Eberhard Fetz, Daniel Weld and Daniel Raftery (*pictured, left to right*) are part of a cohort of 489 new fellows for 2020, which were chosen by their peers for "their scientifically or socially distinguished efforts to advance science or its applications." [Read More](#)

Department of Medicine William J. Bremner Endowed Mentorship Award

UW



Dr. Jonathan Himmelfarb (*pictured*) from the UW Department of Medicine has been selected as this year's recipient for the William J. Bremner Endowed Mentorship Award in honor of his commitment to mentoring physician-scientists. He will be presented with the award at Medicine Grand Rounds in January 2021. Two awards are given annually, one for Excellence in Mentorship of Physician/Scientists and one for Excellence in Mentorship of Clinician/Scholars. [Read More](#)

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Local News
Fauci Fireside Chat, Cell Therapies, Repairing Immune Function, COVID and Clots

Fred Hutch



The 62nd American Society of Hematology (ASH) Annual Meeting and Exposition will be held virtually on December 5-8, 2020. A fireside chat with Dr. Anthony Fauci will kick off the meeting, followed by ASH's annual E. Donnall Thomas Lecture, named for the Hutch's Nobel laureate Dr. Thomas, who would have turned 100 this year. This lectureship recognizes pioneering research achievements. [Read More](#)

New Treatments for Hot Flashes Target Neurons

UW Medicine



As many as 75% of women in North America experience hot flashes, with many still looking to hormone therapy to relieve the surge of hormones, otherwise known as vasomotor symptoms (VMS). But new research, shared recently by Dr. Susan Reed from the UW School of Medicine at the Annual North American Menopause Society Conference, shows the direction of VMS therapy is turning toward new nonhormonal drug treatments targeting neurons in the brain. [Read More](#)

TL;DR: Allen Institute AI Sums Up Research Papers in a Sentence

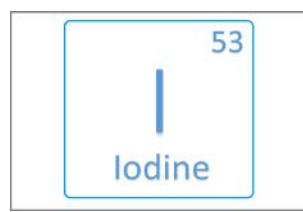
Nature



The creators of a scientific search engine have unveiled software that automatically generates one-sentence summaries of research papers, helping scientists skim-read papers faster. The free tool, which creates TLDRs ("Too long, didn't read"), has been activated for Semantic Scholar search results, a search engine created by the Allen Institute for Artificial Intelligence. [Read More](#)

Lightning Strikes Twice for Iodine as Potentially Life-Saving Intervention

Fred Hutch



Iodine has long held a hallowed position in the pantheon of public health. It is a key ingredient in the production of thyroid hormone, an important regulator of growth and intellectual development. But in a cruel twist of fate, it is also dangerously deficient in the natural diets of billions of people around the world, putting them at risk of physical and intellectual disabilities. [Read More](#)

How *Salmonella* Co-opts the Host Immune System to Conceal Itself

Institute for Systems Biology (ISB)



ISB's Dr. Ajay Suresh Akhade and Dr. Naeha Subramanian (*pictured*) have recently authored a paper published in *PNAS* that details how *Salmonella* conceals itself from the immune system in a type of host cell called the macrophage. Macrophages are the first responders to *Salmonella* infection but are also the cells that *Salmonella* uses to spread throughout the body and eventually hijack for its own survival. [Read More](#)

Seattle Biotech Firm Umoja Biopharma Raises \$53M as it Tackles Unique Approach to Immunotherapy

GeekWire



Umoja Biopharma has raised \$53 million to expand development of its CAR T-cell immunotherapy treatments for blood-based and organ-based tumors in adult and pediatric patients. Led by CEO Andy Scharenburg (*pictured*), it is taking a new three-step approach to immunotherapy by retooling a patient's immune system *in vivo*, or within a living organism, to generate cancer-fighting cells inside the body. [Read More](#)

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Upcoming Events in Seattle

- December 1, 10:00 AM **Straight Talk: Understanding the Promise of a Vaccine** Online
- December 3, 6:00 AM **LabRoots: Coronavirus Virtual Event Series** Online
- December 5 - 8, 8:00 AM **The 62nd American Society of Hematology Annual Meeting and Exposition** Online
- December 5 - 9, 8:00 AM **Cell Bio 2020** Online
- December 8, 10:00 AM **The Future of Healthcare** Online

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- Scientist, Quantitative Cell Biologist**
Allen Institute for Cell Science
- Scientist, Pharmaceutical Sciences**
Seagen
- Research Technician II-III**
Benaroya Research Institute at Virginia Mason
- Senior Medical Scientist, Liver Disease, Pacific Northwest**
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