

Publications of the Week

Divergent Medial Amygdala Projections Regulate Approach-Avoidance Conflict Behavior

First Author: Samara Miller | Senior Author: Larry Zweifel (pictured)
Nature Neuroscience | UW



Avoidance of innate threats is often in conflict with motivations to engage in exploratory approach behavior. The authors isolated a population of dopamine D1 receptor-expressing neurons within the posteroventral region of the medial amygdala in mice that are activated either during approach or during avoidance of an innate threat stimulus. [Abstract](#)

Uncovering and Resolving Challenges of Quantitative Modeling in a Simplified Community of Interacting Cells

First Author: Samuel Hart (pictured, back row middle) | Senior Author: Wenyang Shou (front row, right)
PLOS Biology | Fred Hutch



The authors illustrate challenges in parameter quantification and offer means to overcome these challenges, using a case example in which they quantitatively predicted the growth rate of a cooperative community. Specifically, the community consists of two *Saccharomyces cerevisiae* strains, each engineered to release a metabolite required and consumed by its partner. [Abstract](#)

The Hypothalamic Arcuate Nucleus-Median Eminence Is a Target for Sustained Diabetes Remission Induced by Fibroblast Growth Factor 1

First Author: Jenny Brown | Senior Author: Michael Schwarz (pictured)
Diabetes | UW



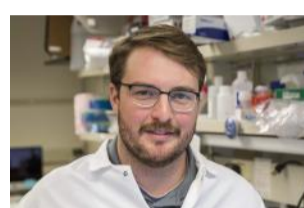
In rodent models of type 2 diabetes, sustained remission of diabetic hyperglycemia can be induced by a single intracerebroventricular (icv) injection of fibroblast growth factor 1 (FGF1). The authors identified the brain areas responsible for this effect, and examined whether an action of FGF1 localized to these areas was capable of mimicking the sustained antidiabetic effect elicited by icv FGF1. [Abstract](#)

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Awards

Fred Hutch's Dr. Adam Dingens a 2019 Weintraub Award Recipient

Fred Hutch



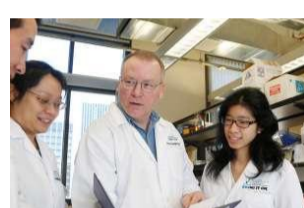
Dr. Adam Dingens (pictured), a postdoctoral HIV researcher at Fred Hutch, is among 13 recipients of the institution's 2019 Harold M. Weintraub Graduate Student Award, which recognizes outstanding achievement in graduate studies in the biological sciences. His research focuses on immune molecules called broadly neutralizing antibodies, which can bind to many types of HIV and prevent infection. [Read More](#)

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Local News

Immune System Discovery May Stop Breast Cancer

Virginia Mason



The study of a protein critical in causing asthma, allergies and other diseases, has led scientists at Benaroya Research Institute at Virginia Mason (BRI) to discover a new strategy for stopping breast cancer. BRI researchers Dr. Emma Kuan (pictured, second from left) and Dr. Steven Ziegler (second from right) have pinpointed how the protein, called thymic stromal lymphopoietin, helps breast cancer tumors survive and grow. [Read More](#)

Computer-Designed Vaccine Elicits Potent Antibodies to RSV

UW Medicine



A first-of-its-kind nanoparticle vaccine candidate for respiratory syncytial virus (RSV) has been designed in an international research effort. RSV is second only to malaria as a cause of infant mortality worldwide. The new vaccine elicits potent neutralizing antibodies against RSV in both mice and monkeys. The animal research findings pave the way for human clinical trials. [Read More](#)

An Ancient Pathway that Relays Visual Information in the Mammalian Brain

Allen Institute for Brain Science



Allen Institute researchers have found that certain visual information passes from the eyes through a small section of the brainstem in mammals, rather than through the canonical neural pathway previously thought to be responsible for trafficking everything we see. The research relied on recordings of electrical activity from more than 1,500 neurons in the mouse brain using a newly developed type of silicon probe, Neuropixels. [Read More](#)

Oral Blood Thinner May Reduce Blood Clots in High-Risk Patients with Cancer

Cure



Researchers have found that the oral blood thinner Xarelto (rivaroxaban) significantly reduced blood clots for high-risk patients with cancer being treated in the outpatient setting. "The reason this is important for cancer patients is because they are quite prevalent," said Dr. Alok Khorana. "A rough estimate is that one in five cancer patients will get a blood clot at some point during the natural history of their illness." [Read More](#)

Aga Khan University and Fred Hutch Join in Global Collaboration

Fred Hutch



The Aga Khan University and Fred Hutch have expressed their shared commitment in working together to improve the prevention, diagnosis and treatment of cancer and related diseases in low- and middle-income countries. Both universities engage in programs to improve the next generation of cancer care through hematology and oncology training fellowships and have identified this as an area of potential collaboration. [Read More](#)

Ozy's 'Future of X' Podcast Features Drs. Jim Heath and Lee Hood

Ozy



The first season of *The Future of X* delves into a subject that touches us all: health. Over four episodes, they explore how treating illness is becoming highly personalized, why hospitals could become obsolete, the technology that might rid us of depression and why dying is becoming more enjoyable. Guests include Drs. Lee Hood and James Heath (pictured). [Read More](#)

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Interesting Articles

Measles Outbreak Brings U.S. Surgeon General to Washington

Kiro7



The measles outbreak has U.S. Surgeon General Dr. Jerome M. Adams (pictured) visiting Washington state to get a better understanding of the problem. "It's important to understand that 91 percent of people in this country actually believe in vaccinations," Adams said. He said that among the other 9 percent, many people are simply hesitant about vaccines and want their questions answered in a respectful and culturally sensitive manner. [Read More](#)

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Upcoming Events in Seattle

- March 15 - 19 9:00 AM **Mammalian Sensory Systems**
Allen Institute
- March 20 8:30 AM **From the Laboratory to Leadership**
Agora Conference Center
- March 20 4:30 PM **South Lake Union Collaborative Seminar Series – Structural Imaging**
Orin Smith Auditorium
- March 22 7:00 PM **Brewology**
Pacific Science Center
- March 26 5:00 PM **2019 Bio in the Brewery**
Stoup Brewing – Ballard

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Science Jobs in Seattle

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Fred Hutch
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- Postdoctoral Research Fellow, Hematopoiesis**
Fred Hutch

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