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Events Jobs Volume 2.19: May 20, 2019

### Publications of the Week

Regulatory T Cells Limit Unconventional Memory to Preserve the Capacity to Mount Protective CD8 Memory Responses to Pathogens

First Author: Andreia Da Costa | Senior Author: Jennifer Lund (pictured, fourth from left) PNAS | Fred Hutch and UW



The authors describe a population of unconventional CD44<sup>+</sup>CD122<sup>+</sup> virtual memory T cells (T<sub>VM</sub>) that possess many, though not all, features of "true memory" T cells, without the requirement of first encountering cognate antigen. They demonstrate a role for regulatory T cell-mediated restraint of T<sub>VM</sub>, at least in part through limiting IL-15 *trans*-presentation by CD11b<sup>+</sup> dendritic cells. **Profile | Abstract** 

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#### **High-Dimensional Cell-Level Analysis of Tissues with Ce3D Multiplex Volume Imaging**

First Author: Weizhe Li | Senior Author: Michael Gerner (pictured) Nature Protocols | UW School of Medicine



The authors provide detailed procedures for tissue clearing using clearingenhanced 3D (Ce3D), including optimized workflows for tissue processing and staining, as well as treatment of difficult-to-clear organs such as the brain. They also describe a new procedure for RNA detection in Ce3D-treated tissues, as well as provide additional details for the volumetric histocytometry data processing steps. Abstract

### **Synthetic Bistability and Differentiation in Yeast**

First Author: Yaoyu Yang | Senior Author: Eric Klavins (pictured)



Synthetic Biology | UW

The authors present a cellular differentiation program involving a novel synthetic bistable switch coupled to an antibiotic resistance gene that affects growth in yeast (S. cerevisiae). By coupling the bistable switch with an antibiotic resistance gene, they obtained a growth differentiation circuit, where yeast cells could be switched to stable HIGH or LOW growth rate states via transient inducer inputs. **Abstract** 

### View All Publications **(2)**

### Awards

Irene Njuguna Receives the 2019 Mentored International Investigator Award Center for AIDS Research



The UW/Fred Hutch Center for AIDS Research has announced Dr. Irene Njuguna (pictured) as this year's Mentored International Investigator Awardee. The Mentored International Investigator Awards are to encourage international junior investigators (at an advanced stage of training or recently independent) to conduct independent research with close mentorship from senior faculty. Read More

#### Announcing the Recipients for the 2019 Investment of Catalytic Funds to **Access Resources**

Center for AIDS Research (CFAR)



The UW/Fred Hutch Center for AIDS Research has announced Drs. Sarah Benki-Nugent (pictured), Keshet Ronen and Pavitra Roychoudhury as the recipients of the Investment of Catalytic Funds to Access Resources. The awards are to provide enhanced support for short-term innovative HIV-related pilot projects that leverage existing CFAR services, data, and/or specimens in excess of what can be offered to a single investigator. Read More

### View All Awards 😜

#### Local News

Kidney Experiment by UW Researchers Heads to International Space Station



Associate professor at the UW Department of Pharmaceutics, Dr. Edward Kelly, and Director of the Kidney Research Institute, Dr. Jonathan Himmelfarb, are co-Principal Investigators for an experiment to observe human health in the antigravity environment of space. Their team aims to use their observations from the kidneys in space to help treat diseases and other health issues on Earth. **Read More** 

### **Study Will Test Pot's Effects on Infants' Brain Development UW Medicine**



UW Medicine researchers are recruiting pregnant women to study whether prenatal marijuana use - in the absence of alcohol, tobacco, and any illicit drug consumption – affects their infants' brain development, cognitive and motor development, medical health, and social behavior. The "Moms + Marijuana" study is co-led by Drs. Natalia Kleinhans and Stephen Dager, radiologists at the UW School of Medicine. Read More

#### Seattle Startup Blaze Bioscience Makes Brain Tumors 'Light up Like a **Christmas Tree' in First Trial**

GeekWire



Blaze Bioscience, a Seattle-based biotech company that's using a protein borrowed from scorpion venom to make cancerous tumors glow, has passed its first clinical trial with flying colors and is on to the next stage. Blaze's "tumor paint" technology, called BLZ-100 or tozuleristide, helps surgeons spot and remove solid tumor cells in patients. Read More

### Virginia Mason's Research Aims to Find the Connection between Down **Syndrome and Autoimmune Diseases**

K5News



The Down Syndrome Program at Virginia Mason and the Benaroya Research Institute are working together to research the connection between Down syndrome and autoimmune diseases. Down syndrome is one of the most common genetic conditions, with about 400,000 Americans having Down syndrome. Among those, almost half also have or develop autoimmune diseases. Read More

# **Baseline Imaging Recommended in All Merkel Cell Carcinoma Patients**



Because of the very substantial risk of metastatic spread, baseline imaging should be performed in all patients with Merkel cell carcinoma (MCC), including those without palpable lymph nodes, according to results of an analysis of a large MCC registry by Neha Singh, a researcher in the division of dermatology at UW. **Read More** 

#### **Tuberculosis: Fighting the Disease with a Single Vial** European Pharmaceutical Review



Vaccinations have begun in a Phase I human clinical trial testing a freeze-dried, temperature-stable formulation of an experimental tuberculosis vaccine candidate. In this article, Nikki Withers speaks to Drs. Daniel Hoft and Christopher Fox from the Infectious Disease Research Institute about the formulation process and what this means for vaccine development going forward. Read More

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# Upcoming Events in Seattle

A Life Unbound (Documentary Screening Seattle) May 22 7:00 PM Youngstown Cultural Arts Center

May 22 **Northwest Science Writers Association Trivia Night** 7:30 PM Floating Bridge Brewing

Introduce a Girl to CoRDS Fair May 25 1:00 PM Husky Union Building

Science in the City: The Last Butterflies – Book Signing and June 6 Presentation 7:00 PM Pacific Science Center

June 11 2019 Spring SLU Collaborative Seminar Series: Immunology Allen Institute

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# Science Jobs in Seattle

# **Vice President, Translational Sciences**

4:30 PM

Senior Scientist, Immune Cell Signaling & Tissue Microenvironments Allen Institute for Immunology

Faculty, Assistant/Associate Member Benaroya Research Institute at Virginia Mason

**Development Scientist** Adaptive Biotechnologies

**Postdoctoral Scientist, Chemistry** Infectious Disease Research Institute

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