

Publications of the Week

**Macrophage-Associated Wound Healing Contributes to African Green Monkey SIV Pathogenesis Control**

First Author: Fredrik Barrenas (*pictured, back row, fourth from left*) | Senior Author: Michael Gale Jr. (*right*)  
Nature Communications | Washington National Primate Research Center and UW



Natural hosts of simian immunodeficiency virus (SIV) avoid AIDS despite lifelong infection. The authors have examined how this outcome is achieved by comparing a natural SIV host, African green monkey (AGM) to an AIDS susceptible species, rhesus macaque. They found that AGMs rapidly activate, and then maintain, evolutionarily conserved regenerative wound healing mechanisms in mucosal tissue. [Profile](#) | [Abstract](#)

**DUX4-Induced Histone Variants H3.X and H3.Y Mark DUX4 Target Genes for Expression**

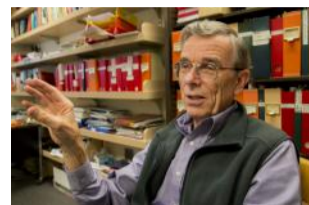
First Author: Rebecca Resnick (*pictured, left*) | Senior Author: Stephen Tapscott (*front row, center*)  
Cell Reports | Fred Hutch, UW and NanoString Technologies



The DUX4 transcription factor is briefly expressed in the early cleavage-stage embryo, where it induces an early wave of zygotic gene transcription, whereas its mis-expression in skeletal muscle causes the muscular dystrophy facioscapulohumeral dystrophy. The authors showed that DUX4 induced the expression of the histone variants H3.X and H3.Y. [Profile](#) | [Abstract](#)

**Two Indoleamines Are Secreted from Rat Pineal Gland at Night and Act on Melatonin Receptors but Are Not Night Hormones**

First Author: Bo Hyun Lee | Senior Author: Bertil Hille (*pictured*)  
Journal of Pineal Research | UW School of Medicine



At night, the pineal gland produces the indoleamines, melatonin, N-acetylserotonin (NAS), and N-acetyltryptamine (NAT). Melatonin is accepted as a hormone of night. However, blood levels of NAS and NAT were insufficient to activate peripheral melatonin receptors and they were invariant, so they could not serve as circulating hormones of night. [Profile](#) | [Abstract](#)

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Awards

**Six UW Faculty Members Named AAAS Fellows**

UW News



The American Association for the Advancement of Science (AAAS) has named six faculty members from UW as AAAS Fellows, including Dr. Raymond Monnat, Jr. (*pictured*), who studies DNA damage and repair mechanisms, genome instability, and its role in cancer and other conditions. They are part of a cohort of 443 new fellows for 2019, all chosen by their peers for "scientifically or socially distinguished efforts to advance science or its applications." [Read More](#)

**Fred Hutch Paleovirologist Elected AAAS Fellow**

Fred Hutch



Fred Hutch evolutionary biologist Dr. Harmit Malik (*pictured*) has been elected a fellow of the American Association for the Advancement of Science (AAAS). Malik, who is also a Howard Hughes Medical Institute Investigator, studies genetic conflict, in which evolutionary changes are driven by competition between genes and proteins with opposing functions. [Read More](#)

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Local News

**How an AI Solution Can Design New Tuberculosis Drug Regimens**

University of Michigan



With a shortage of new tuberculosis drugs in the pipeline, a software tool co-developed by researchers at Seattle Children's Research Institute can predict how current drugs can be combined in new ways to create more effective treatments. Dubbed INDIGO, short for INferring Drug Interactions using chemoGenomics and Orthology, the software tool has shown that the potency of tuberculosis drugs can be amplified when they are teamed with antipsychotics or antimalarials. [Read More](#)

**Fred Hutch Receives Five Years of NCI Funding to Grow and Maintain Key Prostate Cancer Cohort**

Fred Hutch



Prostate cancer researchers at Fred Hutch have received a five-year, \$6.7 million grant from the National Cancer Institute to support the infrastructure and ongoing growth of the multicenter Canary Prostate Active Surveillance Study, or PASS. The PASS cohort, or group of patients under study, provides data and tissue samples from more than 2,100 patients with early-stage prostate cancer. [Read More](#)

**Building a Better Scar**

Institute for Stem Cell & Regenerative Medicine (ISCRM)



For decades, researchers have explored the possibility of building a more perfect scar, an intervention that might not change how an otherwise healthy girl recovers from a routine spill, but could revolutionize treatment for many of our leading causes of death, including heart disease. Dr. Jennifer Davis (*pictured*), an Assistant Professor of Bioengineering and Pathology at UW, has been studying the basic mechanisms of scarring for more than a decade. [Read More](#)

**Fred Hutch Loses Data Chief in Latest Leadership Shakeup for Seattle Cancer Research Powerhouse**

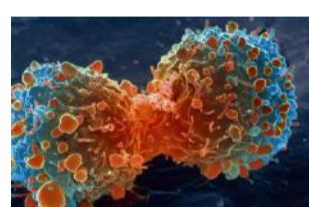
GeekWire



Matthew Trunnell (*pictured*) is stepping down from his post as Chief Data Officer at Fred Hutch. It's the second major leadership loss for Fred Hutch in recent months following president Gary Gilliland's decision to leave the institution next year. Trunnell established the Hutch Data Commonwealth after joining the cancer research powerhouse in 2015, originally as chief information officer. [Read More](#)

**Concure Oncology Raises Cash for Breast Cancer Treatment that Uses Radioactive Seeds**

GeekWire



Concure Oncology is raising investment for its Breast Microseed treatment, which helps to prevent breast cancer from recurring. Compared with traditional radiation, which is delivered by a beam outside the body, brachytherapy can provide more targeted radiation and treatments can be administered in a single visit. A new U.S. Securities and Exchange Commission filing has revealed a \$3 million cash infusion for the Mercer Island, Washington-based company. [Read More](#)

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 **Upcoming Events in Seattle**

- December 3  
8:30 AM **Cambia Grove Open House**  
Cambia Grove
- December 4  
12:00 PM **Executive Speaker Series: Life Sciences**  
Microsoft Events Center at the Seattle Metro Chamber
- December 5  
7:00 PM **Geekwire Gala 2019**  
The Showbox at the Market
- December 11  
8:00 AM **BioTech & Bagels Morning Meetup in SLU**  
Capital One Café
- December 13  
8:30 AM **Seattle Cell Science Symposium**  
Allen Institute

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 **Science Jobs in Seattle**

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Seattle Genetics
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Adaptive Biotechnologies
- Staff Scientist, Vaccine Development**  
Fred Hutch
- Research Scientist III**  
Seattle Children's

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- Associate Product Manager, Hematology (Vancouver, BC)**  
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Webinar by Dr. Kristina McBurney & Leanna Bedell



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