

Publications of the Week

Sirtuin 6 Is Required for the Integrated Stress Response and Resistance to Inhibition of Transcriptional Cyclin-Dependent Kinases

 First Author: Nithya Kartha | Senior Author: Sita Kugel (*pictured*)
 Science Translational Medicine | Fred Hutch and UW


Pancreatic ductal adenocarcinoma (PDAC) is classified into two key subtypes, classical and basal, with basal PDAC predicting worse survival. Using *in vitro* drug assays, genetic manipulation experiments, and *in vivo* drug studies in human patient-derived xenografts of PDAC, the authors found that basal PDACs were uniquely sensitive to transcriptional inhibition by targeting CDK7 and CDK9, and this sensitivity was recapitulated in the basal subtype of breast cancer. [Abstract](#)

Advances and Challenges in Studying the Tissue-Resident T Cell Compartment in the Human Female Reproductive Tract

 First Author: Jennifer Lund (*pictured*) | Senior Author: Martin Prlic
 Immunological Reviews | Fred Hutch and UW


The female reproductive tract (FRT) is a mucosal barrier tissue that is naturally exposed to a wide range of commensal and pathogenic microbes, including several sexually transmitted infections of global health significance. The authors provide an overview of studies describing T cells within the lower FRT tissues and highlight the challenges of studying tissue-resident memory T cells cells in the FRT. [Abstract](#)

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Awards

Seven Bioengineering Students Named to 2023 Husky 100

UW Department of Bioengineering



UW recognized seven students from the Department of Bioengineering for the prestigious 2023 Husky 100, an honor awarded to extraordinary juniors, seniors, and graduate students who are making meaningful contributions at UW and beyond. Undergraduates Ellie Bagley, Jake Flynn, Sasha Friese, Hannah Gunderman, Joanne Liu, Brandon Nguyen, and Dylan Riley (*pictured, top left to bottom right*) are among 100 students selected from across UW's three campuses. [Read More](#)

Brain Cancer Expert Dr. Eric Holland Receives Endowed Chair in Cancer Biology

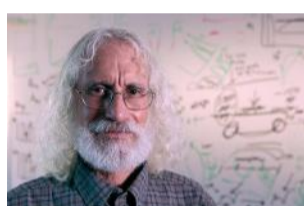
Fred Hutch



Distinguished Fred Hutch brain cancer expert Dr. Eric Holland (*pictured*) was named the Endowed Chair in Cancer Biology. Dr. Holland directs Fred Hutch's Human Biology Division and Seattle Translational Tumor Research, an interdisciplinary and cross-institutional program developed to enhance collaboration and accelerate progress among solid tumor researchers. [Read More](#)

Philip Greenberg Elected to National Academy of Sciences

UW Medicine



Dr. Philip Greenberg (*pictured*), Professor of Medical Oncology, has been elected to the National Academy of Sciences. Members are elected in recognition of their distinguished and continuing achievements in original research, and membership is a widely accepted mark of excellence in science and is considered one of the highest honors that a scientist can receive. [Read More](#)

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Local News

Novel Genetic Screening Tool Offers Hope for Babies Born With Life-Threatening Metabolic Disorder

Pacific Northwest Research Institute (PNRI)



For newborns with genetic diseases and their families, there is hope in the form of a new technology that can provide physicians with the information they need to rapidly diagnose and treat these patients. PNRI Senior Investigator Dr. Aimée Dudley and her team have developed a powerful set of scientific tools that allows them to predict whether a change in the genetic sequence of a specific gene is likely to cause disease. [Read More](#)

Report Details Economic Impact of Washington Life Science Industry

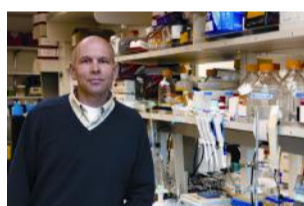
425Business



Washington's life science industry supports more than 100,000 jobs statewide and has an annual economic impact of about \$35.3 billion, according to a report released by an industry trade association. From 2015 to 2021, the industry's in-state employment grew 33.6%, outpacing national life science job growth and bolstering the economy as the private sector saw jobs decline during the COVID-19 pandemic. [Read More](#)

Peter Nelson Named Vice President of Precision Oncology and Director of the Sloan Precision Oncology Institute

GeekWire



Dr. Peter Nelson (*pictured*), Professor of Medical Oncology, has been named Vice President of Precision Oncology and Director of the Sloan Precision Oncology Institute. He will also become the inaugural holder of the Stuart and Molly Sloan Precision Oncology Institute Endowed Chair. Dr. Nelson studies prostate cancer. He works to understand what triggers the disease and how it develops, as well as to improve therapies and discover new treatment targets. [Read More](#)

Don't Spin Out Too Early, and Get Out of the Way: Advice for Biotech Founders From Dr. Jim Olson

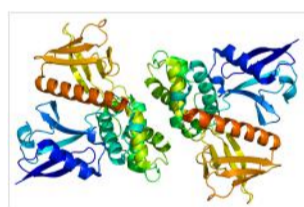
GeekWire



Seattle Children's researcher Dr. Jim Olson (*pictured*) has some thoughts about how to go about launching and leading a biotech startup. His research lab has helped forge Seattle-area startups developing a wide range of technologies. Link Immunotherapeutics focuses on developing new immuno-oncology drugs; Presage Biosciences assesses which cancer drugs tumors respond to; and Blaze Bioscience is testing "tumor paint" that lights up cancer cells to help brain surgeons remove tumors. [Read More](#)

What Is Protein Design?

Institute for Protein Design



Protein design is a rapidly changing field at the forefront of science with the potential to revolutionize medicine, technology, and environmental sustainability. But what exactly is protein design, and how does it work? This articles delves into the basics of protein design, explores its real-world applications, and discusses the interdisciplinary nature of this fascinating field. [Read More](#)

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Interesting Articles

The US Government Should Close Funding Gaps in Pediatric Cancer Research

Washington Research Foundation



President Biden signed funding measures for pediatric cancer research into law last year, but still more is necessary to address the extreme disparities in research funding. The National Pediatric Cancer Foundation and others report that the federal government allocates only four percent of its cancer research budget to pediatric research. While pediatric cancer is gratefully rare, it is the number one cause of death by disease for children. [Read More](#)

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Upcoming Events in Seattle

- May 15**
 5:30 pm **UW Engage Science 2023**
 The Wyncoote NW Forum
- May 17**
 2:00 pm **American Cancer Society ResearchHERS Symposium**
 Fred Hutchinson Cancer Research Center
- May 18 - 23**
 12:00 pm **Career Development Workshop: Preparing Scientists for Industry Careers**
 Online
- May 18**
 12:00 pm **ITHS Expo 23**
 UW
- May 18**
 4:00 pm **Life Science Washington Spring Networking Event 2023**
 Art Marble 21

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Science Jobs in Seattle

- Clinical Lab Technologist II**
 Adaptive Biotechnologies
- Postdoctoral Research Associate**
 Benaroya Research Institute
- Research Associate II, Clinical Gene Editing**
 Astellas Pharma
- Transgenic Animal Core Specialist**
 Fred Hutch
- Research Associate, Analytical Assays**
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