Volume 2.09: March 11, 2019

Publications of the Week

Human and Extracellular DNA Depletion for Metagenomic Analysis of Complex Clinical Infection Samples Yields Optimized Viable Microbiome Profiles

First Author: Maria Nelson | Senior Author: Lucas Hoffman *(pictured)*
Cell Reports | Seattle Children's Hospital and UW

Metagenomic sequencing analyses are often hampered by overwhelming quantities of human DNA, yielding only a small proportion of microbial reads for analysis. The authors describe a method for simultaneously depleting DNA from intact human cells and extracellular DNA (human and bacterial) in sputum, using selective lysis of eukaryotic cells and endonuclease digestion. Abstract

The Response to Lymphodepletion Impacts PFS in Aggressive Non-Hodgkin Lymphoma Patients Treated with CD19 CAR-T Cells

First Author: Alexandre Hirayama | Senior Author: Cameron Turtle *(pictured)*
Blood | Fred Hutch, Juno Therapeutics and UW

Factors associated with durable remission after CD19 chimeric antigen receptor (CAR)-modified T cell immunotherapy for aggressive B-cell non-Hodgkin lymphoma (NHL) have not been identified. The authors report multivariable analyses of factors impacting response and progression-free survival (PFS) in aggressive NHL patients treated with cyclophosphamide and fludarabine lymphodepletion followed by $2x10^6$ CD19 CAR-T cells/kg. Abstract

View All Publications

Awards

Dr. Veena Shankaran Named 2019 Leader in Health Care

Fred Hutch

Dr. Veena Shankaran *(pictured)* of Fred Hutch and UW has been honored with a Gold Award for Achievement in Medical Research. Shankaran is a national leader in studying "financial toxicity" in cancer care — that is, the personal financial problems that are too often a result of cancer treatment. Her research and leadership focus on developing new approaches to measure and mitigate these problems. Read More

Fred Hutch Announces 2019 Harold M. Weintraub Graduate Student Award Recipients

Fred Hutch

Fred Hutch has announced the 2019 recipients of the annual Harold M. Weintraub Graduate Student Award, which recognizes outstanding achievement in graduate studies in the biological sciences. The thirteen awardees, including UW's Alexandra Walls *(pictured)*, study a range of biological questions including how cells divide, interactions between bacteria and the hosts they infect, and brain regulation of hunger and thirst. Read More

View All Awards

Local News

The Underlying Genetic Links between Cancers

The Daily

An international team of scientists, including some from UW, are working to determine if there are genetic relationships between six types of cancer: breast, colorectal, head/neck, lung, ovary, and prostate cancer. In addition, the team hopes to learn more about the role an individual's genes play in their susceptibility to the disease while controlling for non-cancer traits. Read More

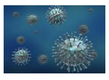
From LA's 'Jungle' to the Forefront of Cancer Research in Seattle

Crosscut

Fred Hutch cancer researcher Eric Nealy *(pictured)* discusses how representation and inclusion charted his journey into STEM in *Crosscut*'s "I Am STEM", a continuing series that tells unique and diverse origin stories of people who work in STEM and STEM-adjacent fields in the Pacific Northwest. Nealy works in the Olson Lab as a graduate student researcher focusing on brain cancer. Read More

Researchers Strategize to Block New HIV Infections, Work toward a Cure

Fred Hutch



As thousands of researchers from around the globe converge on Seattle for a conference on HIV/AIDS, top health officials in the United States are preparing to launch an ambitious new program aimed at eliminating new infections in the U.S. by 2030. Dr. Carl Dieffenbach, who heads AIDS research for the National Institutes of Health (NIH), said that the NIH has the money it needs "to jumpstart the program in this fiscal year" and continue it through the next one. Read More

Seeing the Pathogen's Perspective: ISB Researchers Develop Method to Profile Pathogen Gene Expression from Infected Host Cells

Institute for Systems Biology

The rise in multi-drug resistant and extremely drug resistant strains of *Mycobacterium tuberculosis* (MTB) has become a major cause of global health concern for treating tuberculosis. New research from the Institute for Systems Biology (ISB), Seattle Children's Research Institute, and the University of Birmingham has reported a novel method, Path-seq, to profile expression of all MTB genes within alveolar macrophages of infected mice. Read More

Undergraduates in Research: Feeding a Many-Headed Monster

The Daily

Miranda Howe, a junior at UW, has been feeding the hydras for UW Associate Professor Martha Bosma's research group since spring of her freshman year. These hydras, however, are not mythical many-headed monsters, but rather freshwater relatives of anemones. "They're really interesting because you can study how multiple cells interact, but they're very simple," Howe said. Read More

View All Articles | Submit an Article

Upcoming Events in Seattle

March 12 9:00 AM	**Career Development Workshop** Agora Conference Center
March 13 6:00 PM	**Wine Down with Science: Out of Your Mind** Orin Smith Auditorium
March 14 4:00 PM	**Twist Bioscience Science Mixer 2.0** Gold Bar
March 15 - 19 9:00 AM	**Mammalian Sensory Systems** Allen Institute
March 20 8:30 AM	**From the Laboratory to Leadership** Agora Conference Center

View All Events | Submit an Event

Science Jobs in Seattle

VP, Clinical Development Hematology
Adaptive Biotechnologies

Senior Research Associate
Celgene

Research Associate, Stem Cells Culture & Microscopy
The Allen Institute for Cell Science

PK Scientist
Impel Neuropharma

Postdoctoral Research Fellow, Hematopoiesis
Fred Hutch

View 54 Other Science Jobs | Submit a Job

STEMCELL Jobs

Scientific Sales Representative, Cell Separation Products
STEMCELL Technologies

Product Manager, Epithelial
STEMCELL Technologies

Scientist, Pulmonary
STEMCELL Technologies

Research Associate, Business Operations Products
STEMCELL Technologies

Scientific Sales Representative, Cell Separation Products
STEMCELL Technologies

View 117 Other STEMCELL Jobs | Submit a Job