



Publications of the Week

A Distinct *Fusobacterium nucleatum* Clade Dominates the Colorectal Cancer Niche

First Author: Martha Zepeda-Rivera (*pictured*) | Senior Authors: Susan Bullman and Christopher Johnston
Nature | Fred Hutch



Fusobacterium nucleatum (*Fn*), a bacterium present in the human oral cavity and rarely found in the lower gastrointestinal tract of healthy individuals, is enriched in human colorectal cancer (CRC) tumors. Here, researchers generated closed genomes for 135 *Fn* strains from individuals without and with CRC and conducted pangenomic analyses. [Abstract](#) | [Press Release](#)

Nuclear Factor Kappa B-Dependent Persistence of *Salmonella* Typhi and Paratyphi in Human Macrophages

First Author: Taylor Stepien | Senior Author: Ferric Fang (*pictured*)
Microbial Pathogenesis | UW



Salmonella serovars Typhi and Paratyphi cause a prolonged illness known as enteric fever, whereas other serovars cause acute gastroenteritis. Here, researchers show that *S. Typhi* and *S. Paratyphi* A can persist within human macrophages, whereas *S. Typhimurium* rapidly induces apoptotic macrophage cell death that is dependent on *Salmonella* pathogenicity island 2. [Abstract](#) | [Press Release](#)

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Awards

The Prostate Cancer Foundation Announces 2023 Challenge Awards Totaling More than \$21 Million for Prostate Cancer Research

PR Newswire



The Prostate Cancer Foundation (PCF) announced the 2023 Class of PCF Team Challenge Award recipients and a total of more than \$21 million in funding for innovative prostate cancer research. Among this year's cohort is Dr. Burcu Darst (*pictured*) from Fred Hutch. Dr. Darst's project aims to reduce prostate cancer health disparities for Black patients. [Read More](#)

New Techniques, Collaborations Push Patient-Focused Precision Oncology Forward

Fred Hutch



Dr. Christopher Kemp (*pictured*) recently received a five-year, \$5.4 million grant from the National Cancer Institute to use leading-edge functional genomics approaches to uncover new cancer therapy targets in tumor tissues donated by patients. The team has developed a method to grow patient-derived tumor cells in tumor-like 3D structures called organoids, which better capture tumor behavior and enable researchers to uncover promising new vulnerabilities. [Read More](#)

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Local News

Nucleate Seattle: The Next Generation of Bio-Entrepreneurs

Science in Seattle



Nucleate is a student-led nonprofit activator that facilitates the formation of life science companies within academic institutions. In this Q&A with Science in Seattle, Nucleate's Co-Managing Director Dante Dennis Acenas II (*pictured*) talks about what makes Nucleate different from other programs, the challenges of entrepreneurship as a researcher, and how to get involved. [Read More](#)

Q&A: UW Expert on the Rising Rates of Immunosuppression Among US Adults

UW News



Public health officials believed only about 3% of the American population was immunocompromised. New research from UW suggests that number may have been a drastic undercount. The study, published in the *Journal of the American Medical Association*, places the prevalence of immunosuppression at around 6.6% of American adults — more than twice as high as previously understood. [Read More](#)

Seattle Biotech Nonprofit Lands Funding to Improve Vaccine Responses

Puget Sound Business Journal



Seattle-based biotech nonprofit the Access to Advanced Health Institute (AAHI) has landed the first phase of up to \$12.7M in funding for a five-year project. AAHI aims to make vaccines that are accessible across geographic and economic regions. In addition to pandemic influenza and tuberculosis, the nonprofit is developing vaccines for Covid-19, HIV, and malaria, among others. [Read More](#)

UW Medicine Women Advancing Equity, Diversity, and Inclusion

The Huddle



In recognition of Women's History Month, UW Medicine spoke to members of the department who advocate for equity, diversity, and inclusion such as Genya Shimkin (*pictured*). The colleagues featured illustrate how early influences and experiences can inspire not only careers in science and medicine but compel one to be an advocate for equity, diversity, and inclusion in one's work and life. [Read More](#)

How to Build Equitable Partnerships Between Researchers and Communities

Institute of Translational Health Sciences (ITHS)



Communities and academic researchers must collaborate to improve health equity, but finding each other and aligning goals can be challenging. Researchers at the UW School of Public Health and ITHS developed a program called Community Voices as a way to make these connections easier. The findings from this work were published in the *Journal of Clinical and Translational Science*. [Read More](#)

KPWHRI Contributes to New Flu Vaccine Effectiveness Results

Kaiser Permanente Washington Health Research Institute (KPWHRI)



As one of the sites in the US Influenza Vaccine Effectiveness (Flu VE) network for more than 13 years, KPWHRI conducts research during flu season that helps the CDC understand the effectiveness of licensed flu vaccines for different age groups and types of influenza. The KPWHRI team has over 80 years of combined experience working on Flu VE research. [Read More](#)

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📅 Upcoming Events in Seattle

- March 27
5:30 PM

Generative AI and Healthcare
Sage Bionetworks
- April 4
2:00 PM

Biomedical Innovation Fireside Chats: Regulatory Strategy
Online
- April 9
6:00 PM

Biotech Networks Scientific Speed Networking Seattle Event
Stoup Brewing
- April 17 - 18
8:00 AM

Life Science Innovation Northwest 2024
Seattle Convention Center
- April 18
2:00 PM

Biomedical Innovation Fireside Chats: Product Development
Online

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📁 Science Jobs in Seattle

- Donor Drive Coordinator**
SoundBio Lab
- Infectious Disease Senior Fellow, Bone Marrow Transplant and Oncology Infectious Disease**
Fred Hutch
- Medical Laboratory Scientist II**
Quest Diagnostics
- Intern, Process Science**
Partner Therapeutics
- Accessioning Specialist II**
Adaptive Biotechnologies

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