

Publications of the Week

Fusobacterium sphaericum Species Nova, Isolated From a Human Colon Tumor Adheres to Colonic Epithelial Cells and Induces IL-8 Secretion

First Author: Martha A. Zepeda-Rivera (pictured) | Senior Author: Susan Bullman
Gut Microbes | Fred Hutch



Cancerous tissue is a largely unexplored microbial niche that provides a unique environment for the colonization and growth of specific bacterial communities, and with it, the opportunity to identify novel bacterial species. Here, researchers report distinct features of a novel Fusobacterium species, *F. sphaericum* species nova, isolated from primary colon adenocarcinoma tissue. [Abstract](#)

[View All Publications](#)

Awards

Dr. Yeon Soo Kim Receives Pathway to Independence Award

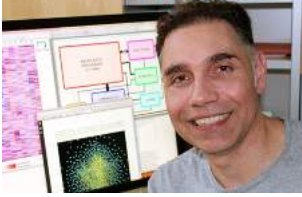
Fred Hutch



Dr. Yeon Soo Kim (pictured) has received a K99/R00 Pathway to Independence Award from the National Cancer Institute. The award funds one to two years of mentored research at Fred Hutch for up to \$125,000 each year. If she secures a tenure-track or equivalent faculty position, she will receive up to three years of research funding at \$249,000 per year. [Read More](#)

A Plasma Metabolite Diagnostic for Melioidosis

UW Medicine



Drs. T. Eoin West and Sina Gharib (pictured) were awarded an R21 grant from the National Institute of Allergy and Infectious Diseases to evaluate the diagnostic accuracy of a novel plasma proteomic signature for melioidosis (*Burkholderia pseudomallei* infection). Melioidosis is a bacterial infection that occurs in tropical regions around the world and causes significant mortality. [Read More](#)

Paving the Way for Real-Time Subphenotyping in Sepsis

UW Medicine



Dr. Linzee Mabrey (pictured) from UW Medicine has been awarded an unrestricted grant from the American Thoracic Society, designed to support early-career investigators researching topics in pulmonary, critical care, and sleep medicine. This grant will support her project, "Paving the way for real-time subphenotyping in sepsis." [Read More](#)

‘Seattle Biotech Is on Fire’: Industry Produces Three Nobel Prize Winners in Two Years

GeekWire



Dr. Mary Brunkow (pictured, right), Senior Program Manager at the Institute for Systems Biology, and Dr. Fred Ramsdell (left), Co-Founder and Chair of Sonoma Biotherapeutic’s Scientific Advisory Board, are sharing the 2025 Nobel Prize in Physiology or Medicine. Their research solidified the role of regulatory T cells and launched a new field in peripheral tolerance research. [Read More](#)

[View All Awards](#)

Local News

Pacific Northwest Research Institute Publishes Key Advances in Rare and Genetic Disease Research Amid National Funding Uncertainty

Pacific Northwest Research Institute (PNRI)



In the past year, PNRI researchers published 21 high-impact studies spanning rare inherited disorders, cancer biology, and the structure of the human genome. "Even in times of funding instability, our scientists remain dedicated to delivering insights that change lives. These findings highlight the vital role independent research institutes play in driving innovation outside the spotlight of major medical centers," says Dr. Mark Rieder (pictured). [Read More](#)

Wildfire Smoke Linked to Declines in Sperm Quality

UW Medicine



A new study from UW Medicine suggests that wildfire smoke exposure may reduce key measures of sperm quality in patients undergoing fertility treatments. "These results reinforce growing evidence that environmental exposures—specifically wildfire smoke—can affect reproductive health," said senior author, Dr. Tristan Nicholson (pictured). [Read More](#)

BBI’s Single Cell Genomics Team Generates Data to Drive ‘Landmark Initiatives’ in Precision Medicine

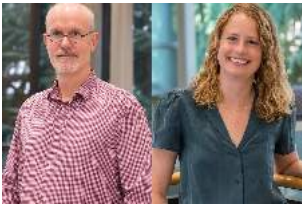
Brotman Baty Institute (BBI)



BBI’s Single Cell Genomics Team is helping empower two research projects making “transformative discoveries across precision medicine and functional genomics.” The projects, the Seattle Hub for Synthetic Biology and the Billion Cells Project, use AI to drive the future of how scientists and clinicians diagnose and treat illnesses. [Read More](#)

Innovation Fund Spotlight: Exploring Immune System Cells and Gut Bacteria

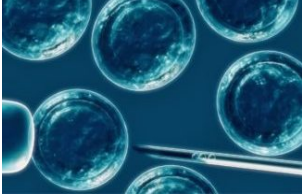
Benaroya Research Institute



Drs. Allyson Byrd (pictured, right) and James Lord (left) are examining two different tools to study the microbes and immune system cells involved in inflammatory bowel disease. "We want to see if the expanded bulk-sequencing approach can provide similar data to the single-cell sequencing. If it can, we would be able to glean lots of relevant information from each cell type, but at a fraction of the cost", says Dr. Byrd. [Read More](#)

Arzeda to Lead Major NSF-Funded Initiative Advancing Electricity-Driven Cell-Free Biomanufacturing Through AI-Designed Enzymes

Arzeda



Arzeda announced it has been selected to lead a highly competitive U.S. National Science Foundation (NSF) award under the Ideas Lab: Advancing Cell-Free Systems Toward Increased Range of Use-Inspired Applications initiative. The award, totaling approximately \$7.8 million, will harness Arzeda’s Intelligent Protein Design Technology™ to develop electricity-powered enzyme cascades for sustainable chemical production. [Read More](#)

[View All Local News](#) | [Submit an Article](#)

Interesting Articles

Apply Now to the ITHS KL2 Program

Institute of Translational Health Sciences (ITHS)



Applications are now open for 2025–2026 appointments to the ITHS KL2 Multidisciplinary Clinical Research Career Development program. The KL2 program provides the time, funding, mentorship, and training necessary to foster the early career development of clinical and translational researchers. The program welcomes scholars with faculty appointments from all health professions. [Read More](#)

[View All Interesting Articles](#) | [Submit an Article](#)

📅 Upcoming Events in Seattle

October 14
8:30 AM

Preclinical Development and IND Filing for Antibody Therapeutics: the Nuts, Bolts, and Best Practices
Seattle Asian Art Museum

October 14
6:00 PM

Nature and Health Fall Community Dinner
Fremont Brewing

October 22
5:00 PM

OUTbio Seattle Fall Mentorship Event
118 East Blaine St.

October 23 - 24
12:00 PM

Cascadia 6.0
University of Washington

October 29
5:30 PM

WIB-Seattle: Beyond CAR-T – Next-Generation Cell and Immunotherapies
Bristol Myers Squibb

[View All Events](#) | [Submit an Event](#)

📁 Science Jobs in Seattle

Associate Director, Hypercell, Process Engineer
Bristol Myers Squibb

Clinical Laboratory Technician 1
UW Medicine

Program Head, Phase I Clinical Trials
Fred Hutch

Outreach Scientist
Seattle Children’s

Scientist, ADC Chemistry
Pfizer

[View 68 Other Science Jobs](#) | [Submit a Job](#)



Submit your articles and events by reaching out to us at info@scienceinseattle.com.

BROUGHT TO YOU BY



STEMCELL Technologies
Products | Services

STEMCELL Science News
Free Weekly Updates on Your Field

The Stem Cell Podcast
Interviews and Updates on Stem Cell Science