

Publications of the Week
Subcellular Drug Targeting Illuminates Local Kinase Action

 First Author: Paula Bucko | Senior Author: John Scott *(pictured)*
 eLife | UW


A-kinase anchoring proteins (AKAPs) restrict the range of action of protein kinases within intracellular compartments. The authors exploited the AKAP targeting concept to create genetically encoded platforms that restrained kinase inhibitor drugs at distinct subcellular locations. Local kinase inhibition allowed them to ascribe organelle-specific functions to broad specificity kinases. [Abstract](#)

The CXCL12-CXCR4/CXCR7 Axis as a Mechanism of Immune Resistance in Gastrointestinal Malignancies

 First Author: Sara Daniel | Senior Author: Venu Pillarisetty *(pictured)*
 Seminars in Cancer Biology | UW


Single agent checkpoint inhibitor therapy has not been effective for most gastrointestinal solid tumors, but combination therapy with drugs targeting additional immunosuppressive pathways is being attempted. One such pathway, the CXCL12-CXCR4/CXCR7 chemokine axis, has attracted attention due to its effects on tumor cell survival and metastasis as well as immune cell migration. [Abstract](#)

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Local News
Scientists Link Mysterious Snippets of DNA to Cell Growth and Tumor Suppression

GeekWire



Why do some strings of genetic code remain virtually unchanged despite tens of millions of years of evolutionary divergence? New research from Fred Hutch takes advantage of the gene-editing technique known as CRISPR, and has found that at least some of those DNA strings are essential to keep healthy cells growing and block the growth of tumor cells. [Read More](#)

Dr. Thomas J. Lynch Jr. Named New President and Director of Fred Hutch

Fred Hutch



Dr. Thomas J. Lynch Jr. *(pictured)* will become Fred Hutch's new President and Director. Lynch is a well-known cancer leader with expertise in solid tumor research, precision medicine and immuno-oncology. He was most recently the Chief Scientific Officer at Bristol-Myers Squibb, where he led the company's research and development efforts in cancer, cardiovascular disease, fibrosis and immunoscience. [Read More](#)

Testing a Grow-the-Forest Approach to Help Skin Conditions

UW Medicine



Know someone with a bad case of acne? Someday, perhaps, physicians will treat it with swabs of healthy skin microbiome rather than with an antibiotic. The idea, developed by doctors at UW, parallels the highly successful strategy of transplanting fecal microbiota to treat *Clostridioides difficile*, a stubborn bacterial infection of the colon. By introducing healthy microbes into an environment that is out of balance, doctors restored bacterial equilibrium. [Read More](#)

Phase Genomics Receives \$1.5M NIH Grant to Develop Fast and Affordable Commercial Antimicrobial Resistance Tracking Kit

Phase Genomics via Globe Newswire



Phase Genomics, Inc., the biotech leader providing proximity-ligation next-generation sequencing solutions for metagenome assembly, has announced the award of a \$1.5M National Institutes of Allergy and Infectious Diseases grant to develop a low-cost platform for targeted detection of antimicrobial resistance mobile elements and their hosts in uncultured microbial communities. [Read More](#)

A New Clinical Trial on the Treatment of Multiple Sclerosis Starts Enrollment

Receive News



The Immune Tolerance Network, a program of Benaroya Research Institute at Virginia Mason, has opened the BEAT-MS clinical trial for enrollment. BEAT-MS or "Best Available Therapy vs. Autologous Hematopoietic Stem Cell Transplant (AHST) for Multiple Sclerosis" will investigate high dose immunosuppression followed by AHST compared to the best medical treatment currently available for MS in participants with relapsing MS. [Read More](#)

TwinStrand Raises \$16M from Madrona and Others for Next-Gen DNA Sequencing, Promising Early Cancer Detection and Other Breakthroughs

GeekWire



TwinStrand Biosciences, a Seattle startup developing next-generation DNA sequencing technology that promises to lead to early cancer detection, rapid identification of carcinogens and other breakthroughs, has raised \$16 million in a Series A funding round led by Madrona Venture Group. The company is a UW spinout co-founded by Jesse Saik *(pictured)*. [Read More](#)

Science on the Horizon

Fred Hutch



What's to come in science in 2020? While scientists at Fred Hutch are not fortune tellers (alas), they do have their eyes on the leading edge of research. From cancer therapies to fundamental science to public health, Fred Hutch scientists overcame their natural reluctance in the realm of predictions in order to share a few about the scientific trends, discoveries and breakthroughs they envision for next year. [Read More](#)

ISB Marking 20th Anniversary with Year-Long Celebration

Institute for Systems Biology



Dr. Jim Heath *(pictured)*, President of the Institute for Systems Biology (ISB), has announced that 2020 is going to be a year-long ISB anniversary celebration, and they are reintroducing themselves to the community here in Seattle and beyond. As part of this celebration, the institute is partnering with Town Hall Seattle for a speaker series focusing on some of the most important topics in science and health care. [Read More](#)

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Upcoming Events in Seattle

 January 15
6:00 PM

Association for Women in Science: Corvid Research Presented by Dr. Kaeli Swift
 Fred Hutchinson Cancer Research Center

 January 16
5:30 PM

UW Postdoc Association Happy Hour
 Shultz's Bar and Grill

 January 23
5:00 PM

Life Science Industry Networking Event
 Life Science Washington HQ

 January 28
12:00 PM

Lunch & Learn: Market Trends
 Cambia Grove

 January 29
5:30 PM

University of Washington Diversity Career Fair
 Husky Union Building

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Process Development Director/Sr. Staff Scientist, Cell Therapy
 Fred Hutchinson Cancer Research Center

Scientist/Sr. Research Associate, Protein Engineering
 Stratos Genomics

(Senior) Scientist, Pharmacology
 Zymeworks

Assistant/Associate Member, Systems Immunology
 Benaroya Research Institute at Virginia Mason

Research Scientist III
 Seattle Children's

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