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Publications of the Week

The PI3K/mTOR Inhibitor Gedatolisib Eliminates Dormant Breast Cancer Cells in Organotypic Culture, but Fails to Prevent Metastasis in Preclinical

Volume 4.24: June 28, 2021

Settings First Author: Ryann Shor (pictured, 5th from right) | Senior Author: Cyrus Ghajar (3rd from right)

Events Jobs



By probing a number of kinases downstream of integrin-β1, the authors determined that PI3K inhibition with either tool compounds or a compound (Gedatolisib) in clinical trials robustly sensitizes quiescent breast tumor cells seeded in organotypic bone marrow cultures to chemotherapy. These results motivated the preclinical study of whether Gedatolisib would reduce disseminated tumor cell burden and prevent metastases. Profile | Abstract

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CMV Exposure Drives Long-Term CD57⁺ CD4 Memory T Cell Inflation **Following Allogeneic Stem Cell Transplant**

First Author: Albert Yeh | Senior Author: Geoffrey Hill (pictured) Blood | Fred Hutch



Donor and recipient cytomegalovirus (CMV) serostatus correlates with transplant related mortality that is associated with reduced survival following allogeneic stem cell transplant (SCT). The authors investigated the hypothesis that prior donor CMV exposure irreversibly modifies immunologic function after SCT. They identified a CD4⁺/CD57⁺/CD27⁻ T cell subset that was differentially expressed between

seropositive graft and seronegative graft transplants. Abstract

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Awards

Kendan Jones-Isaac and Dr. Eric Scott Nealy Named on 2021 Husky 100 List

Institute for Stem Cell and Regenerative Medicine

Congratulations to Dr. Eric Scott Nealy (pictured, right) and Kendan Jones-Isaac (left). Dr. Nealy hopes to help steer microgel therapy toward clinical trials and commercialization so that it can someday be used to treat cancer patients. Kendan is a key contributor to a multi-year effort to study the effects of microgravity on kidney health. Read More

Dr. Yasemin Sancak Is Named Pew Scholar UW Medicine Newsroom

Dr. Yasemin Sancak (pictured), an Assistant Professor of Pharmacology at UW Medicine, was named a 2021 Pew Scholar in the Biomedical Sciences. Dr. Sancak studies mitochondria, the multi-purpose cell organelles. In addition to being power stations for energy production, mitochondria are central to metabolism, calcium signaling, innate immunity and cell death. Read More

Nola Klemfuss and Peter Han Receive UW 'Together We Will' Honors Brotman Baty Institute (BBI)



Research Coordinator Peter Han and Administrative Director Nola Klemfuss (pictured) were recognized with "Together We Will" awards. Nola Klemfuss played a pivotal role in managing the development of the COVID-19 WA Notify smartphone alert system. Peter Han oversaw the expansion of the work of BBI's lab on the Seattle Flu Study to form the Seattle Coronavirus Assessment Network. **Read More**

Dr. Xiaohu Gao Receives \$250,000 Phase 2 Grant from Washington **Research Foundation for Intracellular Delivery of Proteins**

EIN Presswire

The Washington Research Foundation has awarded a \$250,000 grant that will enable Dr. Xiaohu Gao (pictured) to develop a technology platform to tag proteins and other large molecules with cholesterol in a way that enables them to be efficiently delivered into living cells. Dr. Gao's team discovered that restrictions caused by endocytosis can be largely overcome by tagging the cargo with cholesterol. Read More

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How RNA-Altering Drugs Might Improve Anticancer Immunotherapies



Local News

Cancer researchers have now found that inducing short-lived changes in bits of genetic material known as mRNA can make some tumors more susceptible to immunotherapy drugs. Work from Dr. Robert Bradley's (pictured) team shows that drugs that trigger errors in mRNA codes can cause tumor cells to sprout lots of new and varied surface proteins called neoantigens. Read More

Taking Aim: Mesothelin as a Novel Target for Pediatric AML Therapy Fred Hutch



Dr. Soheil Meshinchi's (pictured) lab in the Fred Hutch Clinical Research Division recently completed the largest ever target discovery effort in acute myeloid leukemia (AML), identifying a library of new target candidates for immunotherapies against childhood and adult AML. The group reveals that the cell surface protein mesothelin is highly expressed in a subset of high-risk pediatric and adult AMLs. **Read More**

BRI President Dr. Jane Buckner Elected to Focis Leadership Benaroya Research Institute at Virginia Mason (BRI)



BRI is pleased to announce the election of its President, Dr. Jane Buckner to the board of the national Federation of Clinical Immunology Societies (FOCIS). Since 1999, Dr. Buckner has been an investigator at BRI. She became Director of its Translational Research Program in 2005, was named BRI's Associate Director in 2012 and President in 2016. Read More

Seal Rock Therapeutics Announces Initiation of Phase 1 Clinical Trial of ASK1 Inhibitor SRT-015 for NASH



Seal Rock Therapeutics has announced dosing of the first healthy volunteer in a Phase 1 clinical trial of SRT-015, a next-generation, liver-selective inhibitor of apoptosis signal-regulating kinase 1 (ASK1) for non-alcoholic steatohepatitis (NASH) and other liver diseases such as Alcoholic Hepatitis. This randomized, double-blind, placebo-controlled trial will evaluate SRT-015 in up to 96 healthy volunteers to assess safety, tolerability and pharmacokinetics. Read More

interest of Dr. Harmit Malik (pictured), a Professor in the Basic Sciences Division at

Genetic Multitasking and the Resolution of Cellular Conflict

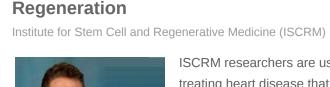


Fred Hutch

Fred Hutch. Dr. Malik's group identified a gene at the center of a conflict between cell types in the fruit fly *Drosophila virilis*, and described the means by which the conflict was resolved. Read More

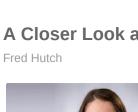
Understanding genetic conflicts, and how evolution deals with them, is a major

Gene Editing May Help Address Arrhythmia Challenges in Heart



ISCRM researchers are using stem cell technology to pioneer novel approaches to treating heart disease that can potentially cure this chronic disease. Dr. Charles Murry (pictured) demonstrated that stem cell-derived cardiomyocytes have the potential to regenerate heart tissue. Now, new evidence suggests the researchers are closer to solving another persistent challenge, known as arrythmia. Read More

A Closer Look at T Cells across the Female Reproductive Tract



A subset of memory T cells that reside in non-lymphoid peripheral tissues, called tissue resident memory T cells (TRM), are important for pathogen control at mucosal barriers. These TRM cells rapidly respond during re-exposure to pathogens and are able to control infections. Dr. Sarah Vick (pictured) along with colleagues defined the CD4⁺ Trm compartment across different tissues within the human female reproductive tract. Read More

NanoString Launches nCounter Stem Cell Characterization Panel to **Advance the Development of Stem Cell Therapy** NanoString Technologies



NanoString Technologies has announced the launch of the nCounter® Stem Cell Characterization Panel for the analysis and optimization of stem cell lines. This panel measures the eight essential components of stem cell biology and provides a novel, standardized assay for evaluating factors that influence and determine

Transcription Factor Binding: A Sharp View of a Fuzzy Interaction Fred Hutch

viability, functionality, and pluripotency. Read More



DNA, and how these interactions impact gene expression, are the focus of Dr. Steve Hahn (pictured), a Professor in the Basic Sciences Division at Fred Hutch and a member of the UW/Fred Hutch Cancer Consortium. Dr. Hahn and collaborators identified how transcription factors interact to control this process. **Read More**

The rules that govern how transcription factors interact with each other, and with

Single-Cell CUT&Tag to Identify Cell States in Normal and Disease Tissue Fred Hutch



Under Targets and Tagmentation (CUT&Tag) method was adapted to profile chromatin landscapes in single cells from a variety of tissues, including differentiating human embryonic stem cells, peripheral blood mononuclear cells, and a set glioblastoma biopsies. Read More To Understand Human Cells, Scientists Look Beyond Genes

In new research from Dr. Anoop Patel (pictured) and colleagues, the Cleavage

Allen Institute for Cell Science Researchers at the Allen Institute for Cell Science developed a method to automatically capture visual characteristics from thousands of images of human



heart muscle cells generated from human stem cells. When they compared one important characteristic of those heart cells to expression of the genes responsible for heart cell maturity, they found very little correlation. Read More Novo Nordisk Partners with Seattle Biopharm to Research, Develop Obesity

teaming up with Novo Nordisk to explore research and development opportunities

Therapies BioSpace Seattle-based clinical-stage biopharmaceutical company Lumen Bioscience is



within obesity, among other metabolic disorders. The collaboration will harness Lumen's drug development and manufacturing platform alongside Novo Nordisk's experience in R&D activities within this space. Read More View All Articles 👂 | Submit an Article 😜

'Speed and Scale.' One Year into the Job, NSF's Director Prepares for

Massive Budget Growth

Interesting Articles

Science Sethuraman Panchanathan has a lot to celebrate as he marks his first anniversary as Director of the US National Science Foundation (NSF). President Joe Biden has



asked Congress to boost its current \$8.5 billion budget by 20% in 2022, and a bipartisan majority in both the Senate and the House of Representatives has embraced the idea of making NSF the lead agency in a massive increase in federal research spending. Read More View All Interesting Articles 😜

Upcoming Events in Seattle UW Recent Graduate Job Fair June 29 1:00 PM Online

June 30

Biostatistics Seminar Series

12:00 PM Webinar Series: The Microbiome and Over-the-Counter Drugs & July 6 **Probiotics** 5:00 PM Online

July 13 Research Roundtable with Dr. Naeha Subramanian 4:00 PM July 15

Healing through Music 6:00 PM

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Research Associate SBX Nanopore Sequencing

Research Associate, Medicinal Chemistry

Research Project Manager, HIV/AIDS Research Fred Hutch

Postdoctoral Position, Coler Translational Research Group

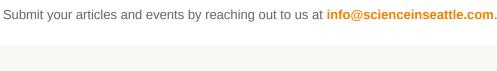
Bristol Myers Squibb View 81 Other Science Jobs 👂 | Submit a Job 😜

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Cell Are You?

Associate Scientist, Raw Material Testing

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