

Publications of the Week

Intestinal Microbiota Controls Graft-Versus-Host Disease Independent of Donor-Host Genetic Disparity

First Author: Motoko Koyama | Senior Author: Geoffrey Hill (*pictured*)
 Immunity | Fred Hutch and UW



Acute graft-versus-host disease (aGVHD) remains a major limitation of allogeneic stem cell transplantation, and severe intestinal manifestation is the major cause of early mortality. Intestinal microbiota control MHC class II expression by ileal intestinal epithelial cells that promote GVHD. Investigators demonstrated that genetically identical mice of differing vendor origins had markedly different intestinal microbiota and ileal MHC-II expression, resulting in discordant GVHD severity. [Abstract](#)

Understanding the Mechanism and Extent of Transplacental Transfer of (-)- Δ^9 -Tetrahydrocannabinol (THC) in the Perfused Human Placenta to Predict *In Vivo* Fetal THC Exposure

First Author: Aditya Kumar | Senior Author: Jashvant Unadkat (*pictured*)
 Clinical Pharmacology & Therapeutics | UW



Cannabis use during pregnancy may cause fetal toxicity driven by *in utero* exposure to THC and its psychoactive metabolite, (\pm)-11-hydroxy- Δ^9 -THC. THC concentrations in the human term fetal plasma appear to be lower than the corresponding maternal concentrations. Scientists investigated whether THC and its metabolites are effluxed by placental transporters using the dual cotyledon, dual perfusion, term human placenta. [Abstract](#)

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Awards

Dr. Cecilia Moens Receives Prestigious NINDS Javits Award

Fred Hutch



Fred Hutchinson Cancer Center developmental biologist Dr. Cecilia Moens (*pictured*) recently received a prestigious Javits Neuroscience Investigator Award. The new grant will allow Dr. Moens to better understand the cues that help growing neurons find their way through a developing embryo to form sensory-motor neural circuits. [Read More](#)

Patient-Centered Outcomes Research Institute (PCORI) Funding Awards

UW Medicine



The Patient-Centered Outcomes Research Institute (PCORI) announced funding awards totaling \$208 million to support 17 new comparative clinical effectiveness research studies. Congratulations to those from the Department of Medicine who received awards, including Dr. Julie Gralow (*pictured*), Professor Wmerritus, who has received \$11 million for a study that focuses on older patients with hormone receptor positive metastatic breast cancer. [Read More](#)

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Local News

Allen Institute for Immunology Partners with Lilly to Better Understand Autoimmune Disease

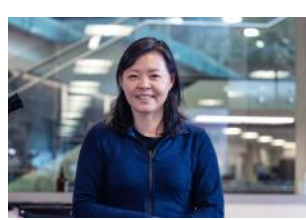
Allen Institute



The Allen Institute for Immunology will collaborate with private industry researchers to aid in the detailed, molecular understanding of disease, in service of developing new treatments and therapies to improve human health. Dr. Peter Skene (*pictured*), Director of High Resolution Translational Immunology at the Allen Institute for Immunology said, "By partnering with Lilly, we will further our translational mission of impact for patients." [Read More](#)

Dr. Hongkui Zeng: Developing Tools and Resources to Accelerate Neuroscience Discovery

People Behind the Science Podcast



Dr. Hongkui Zeng (*pictured*) is Executive Vice President and Director of the Allen Institute for Brain Science. She received her BS degree in biochemistry from Wuhan University and her PhD in molecular and cell biology from Brandeis University. Next, she conducted postdoctoral research at the Massachusetts Institute of Technology. Hongkui then worked for several years at Omeros Corporation before joining the Allen Institute in 2006. [Read More](#)

Understanding Genetic Instability May Be Key to Eliminating and Preventing Cancer

Fred Hutch



Dr. Richard Adeyemi (*pictured*) has spent his entire life studying how to put broken things back together. Nowadays this means furthering our understanding of how cells maintain the integrity of their DNA and repair genetic damage that could lead to cell death or worse, cancer. To the consternation of his parents, this proclivity arose early in Adeyemi's life. "Every toy that I had, I would destroy it and try to put it back together again to see how it worked or what made it move," he said. [Read More](#)

Fred Hutchinson Cancer Center's Science Education Programs Comes to Spokane for the First Time

KXLY.com



July 16 marked the first full week of the Fred Hutch's Science Education Program. It was also the first time the program made a stop in Spokane! The program helps teachers get hands-on experience in laboratory research. "We're very invested in the next generation of scientists, and so by getting more students exposed to these hands-on experiences, we're hoping that we could get more students to feel connected to science," Dr. Hanako Osuga (*pictured*) said. [Read More](#)

How to Create a Lab-Group Logo That Stands Out from the Crowd

Nature News



A well-designed logo is a powerful marketing tool. In science, logos can be used on laboratory websites, personal and lab social-media accounts, presentations and posters, and on lab freebies such as stickers to help groups gain recognition, attract new members and promote their identity. Nature asks three researchers, including Dr. Christina Termini (*pictured*) from Fred Hutch, and a graphic designer for their advice on how to design logos that resonate. [Read More](#)

The Beam: New Roles for Drs. Weg, Chen and Gillespie, Plus a History of Radiation

Fred Hutch



Drs. Emily Weg (*pictured*) and Jonathan Chen are two of Fred Hutch's esteemed proton therapy experts at Fred Hutchinson Cancer Center – Proton Therapy. Both are highly respected among patients as well as staff. Dr. Weg specializes in treating prostate cancer, and Dr. Chen focuses both on prostate and ocular cancers. Both have also recently been promoted to new positions within Fred Hutch. [Read More](#)

National Scientific Consortium, with BBI Members, Exploring Tests to Discover Causes of Unexplained Genetic Disorders

Brotman Baty Institute



A consortium of scientists at five leading research centers in the United States will soon publish a paper seeking to address a daunting challenge in precision medicine: identifying the best genetic test to make precise genetic diagnoses in families with a Mendelian condition. "The GREGoR Consortium has several precision medicine-related goals, but all of us are interested in how to improve diagnostic yield and gene discovery for genetic disorders," said the Brotman Baty Institute's Dr. Jessica Chong (*pictured*). [Read More](#)

Division Spotlight: Dermatology

UW Medicine



For over six decades, the Division of Dermatology at UW has been a national leader in dermatologic research, training and patient care. The Division of Dermatology was established in 1961 by Dr. James Case. After Dr. Case's untimely death, Dr. George Odland (*pictured*) led the division for 26 years. Dr. Odland's passion for innovation and research helped the division become a nationally recognized leader for its contributions to skin biology research. [Read More](#)

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📅 Upcoming Events in Seattle

August 2 12:00 pm	Statistical Methods for Multi-Condition Genomic and Spatial Transcriptomic Analyses Online
August 5 10:00 am	Free Brain Health and Community Resource Fair Alzheimer's Disease Research Group
August 9 - 10 9:00 am	2023 Cell Science Teacher Academy Allen Institute
August 9 12:30 pm	Research Roundtable with Dr. Jacob Valenzuela and Algae Prize Winners Rohan Chanani and Ashwin Mukherjee Online
August 17 4:40 pm	Life Science Washington Annual Summer Social 2023 Life Science Washington

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📁 Science Jobs in Seattle

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