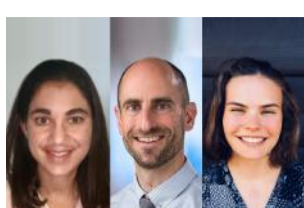


**Publications of the Week**

### Assessing and Restoring Adaptive Immunity to HSV, VZV and HHV-6 in Solid Organ and Hematopoietic Cell Transplant Recipients

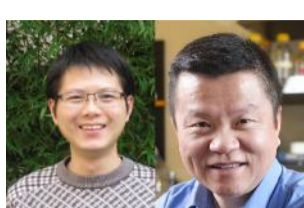
First Author: Madeleine Heldman (*pictured, left*) | Senior Author: Joshua Hill (*pictured, center*)  
 Clinical Microbiology and Infection | Fred Hutch



Herpes simplex virus (HSV) 1 and 2, varicella zoster virus (VZV), and human herpesvirus 6 (HHV-6) cause severe infections in immunocompromised hosts. The authors review adaptive immune responses and methods for assessing and replenishing cellular and humoral immunity to HSV, VZV and HHV-6 in solid organ transplant and hematopoietic cell transplant recipients. [Profile](#) | [Abstract](#)

### Defining Molecular Glues with a Dual-Nanobody Cannabidiol Sensor

First Author: Shiyun Cao (*pictured, left*) | Senior Author: Ning Zheng (*right*)  
 Nature Communications | Howard Hughes Medical Institute, UW, and the Institute for Protein Design



"Molecular glue" is a term coined to describe the mechanism of action of the plant hormone auxin and subsequently used to characterize synthetic small molecule protein degraders exemplified by immune-modulatory imide drugs. The authors report the crystal structure of a dual-nanobody cannabidiol-sensing system, in which the ligand promotes protein-protein interaction in a manner analogous to auxin. [Abstract](#)

### Genetic Dissection of Antibiotic Adjuvant Activity

First Author: J. Bailey | Senior Author: Colin Manoil (*pictured*)  
 Antimicrobial Chemotherapy | UW



Small molecule adjuvants that enhance the activity of established antibiotics represent promising agents in the battle against antibiotic resistance. Adjuvants generally act by inhibiting antibiotic resistance processes, and specifying the process acted on is a critical step in defining an adjuvant's mechanism of action. The authors present a complementary genetic strategy based on identifying mutations that both sensitize cells to antibiotic and make them "adjuvant blind." [Abstract](#)

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**Awards**

### Dr. James Priess Shares Gruber Genetics Prize

Fred Hutch



Fred Hutch developmental biologist Dr. James Priess (*pictured*) shares the 2022 Gruber Genetics Prize, awarded by the Gruber Foundation at Yale University. The \$500,000 prize, which Dr. Priess shares with Drs. Ruth Lehmann and Geraldine Seydoux, recognizes the researchers' pioneering discoveries regarding molecular mechanisms involved in embryonic development. [Read More](#)

### Dr. Kelly Stevens Elected to American Institute for Medical and Biological Engineering

Institute for Stem Cell & Regenerative Medicine (ISCRM)



ISCRM faculty member Dr. Kelly Stevens (*pictured*) has been elected to the American Institute for Medical and Biological Engineering College of Fellows. Dr. Stevens, an Assistant Professor of Bioengineering and of Laboratory Medicine and Pathology, was selected for her work on pioneering approaches to map and replicate human tissues to advance bioengineered organs toward clinical therapy. [Read More](#)

### Dr. Steven Hahn Elected to American Academy of Microbiology

Fred Hutch

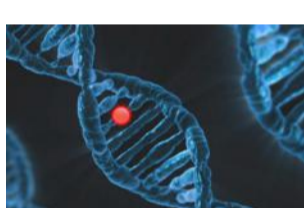


Fred Hutch investigator Dr. Steven Hahn (*pictured*) has been elected a fellow of the American Academy of Microbiology, an honorific leadership group within the American Society for Microbiology. Dr. Hahn was one of 65 fellows elected in 2022 following a highly selective, peer-review process that is based on nominees' records of scientific achievement and original, microbiology-advancing contributions. [Read More](#)

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**Local News**

### MRI May Lower Breast Cancer Death from Variants in Three Genes

UW Medicine



Annual MRI screenings starting at ages 30 to 35 may reduce breast-cancer mortality by more than 50% among women who carry certain genetic changes in three genes, according to a newly published comparative modeling analysis led by Dr. Kathryn Lowry, an Assistant Professor of Radiology at UW Medicine. The predictions involve pathogenic variants in *ATM*, *CHEK2*, and *PALB2* genes — which collectively are as prevalent as the much-reported *BRCA1/2* gene mutations. [Read More](#)

### Meet Princess Imoukhuede

UW Department of Bioengineering



Dr. Princess Imoukhuede (*pictured*) recently joined UW as the Hunter and Dorothy Simpson Endowed Chair and Professor in Bioengineering. She joined UW from Washington University in St. Louis, where she was an Associate Professor of Bioengineering and Director of Diversity Initiatives. UW Bioengineering recently spoke with Dr. Imoukhuede about her background, lessons from diversity efforts, and opportunities ahead for the department. [Read More](#)

### Adaptive Biotechnologies Announces New Data Demonstrating ImmunoSEQ® Technology Can Identify T Cell Receptors Associated with Crohn's Disease

Adaptive Biotechnologies



Adaptive Biotechnologies recently presented data on T cell receptor (TCR) sequences associated with Crohn's disease (CD). The study identified and characterized TCR sequences associated with CD utilizing Adaptive's immunoSEQ® technology, which uses sequencing technology to decipher the complexity of the adaptive immune system, providing fundamental insights into the body's response to CD at the cellular level. [Read More](#)

### Magnolia Medical Announces \$46 Million Growth Equity Financing

Magnolia Medical Technologies



Magnolia Medical Technologies, inventors of Steripath®, the only FDA 510(k)-cleared device platform indicated to reduce blood culture contamination for sepsis testing, announced a \$46 million growth equity financing co-led by RTW Investments and Sectoral Asset Management with significant participation by new investor Janus Henderson Investors. [Read More](#)

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**Upcoming Events in Seattle**

- |                    |  |
|--------------------|--|
| March 1<br>7:00 PM | <b>Science in the City — COVID-19 Vaccinations for the Kids: Questions and Answers</b><br>Online |
| March 2<br>9:00 AM | <b>Variant Effects Seminar Series</b><br>Online  |
| March 3<br>3:30 PM | <b>CFAR Seminar- Elvin Geng, MD, MPH and Jillian Pintye, RN, MPH, PhD</b><br>Online              |
| March 5<br>9:30 AM | <b>SEP Social Justice Workshop: The Underrepresentation Curriculum Project</b><br>Online         |
| March 9<br>4:00 PM | <b>Brain Awareness Week 2022</b><br>Online   |

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**Science Jobs in Seattle**

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Fred Hutch
- Research Associate III, Stem Cell and Gene Editing**  
Allen Institute
- Clinical Research Coordinator III, Cardiology**  
Seattle Children's
- Research Associate, Immuno-oncology**  
Kineta
- Scientist/Senior Scientist, Allogeneic Cell Therapy & Gene Editing**  
Bristol Myers Squibb

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