



Publications of the Week

### Contribution of the Patient Microbiome to Surgical Site Infection and Antibiotic Prophylaxis Failure in Spine Surgery

First Author: Dustin Long | Senior Author: Stephen Salipante *(pictured)*  
Science Translational Medicine | Harborview Medical Center and UW



Despite modern antiseptic techniques, surgical site infection (SSI) remains a leading complication of surgery. Combining multiple forms of genomic analysis, researchers correlated the identity, anatomic distribution, and antimicrobial resistance profiles of SSI pathogens. These findings indicate the need for SSI prevention strategies tailored to the preoperative microbiome and resistome present in individual patients. [Abstract](#) | [Press Release](#)

### Molecular Phenotyping of Small Cell Lung Cancer Using Targeted cfDNA Profiling of Transcriptional Regulatory Regions

First Author: Joseph Hiatt and Anna-Lisa Doebley | Senior Authors: Gavin Ha and David MacPherson *(pictured)*  
Science Advances | Fred Hutch, Veterans Affairs Puget Sound Healthcare System, Brotman Baby Institute, and UW



We report an approach for cancer phenotyping based on targeted sequencing of cell-free DNA (cfDNA) for small cell lung cancer (SCLC). Sequencing of cfDNA from SCLC patient-derived xenograft models captured transcription factor activity and gene expression and revealed individual highly informative loci. This approach shows promising utility for SCLC subtyping and transformation monitoring, with potential applicability to diverse tumor types. [Abstract](#) | [Press Release](#)

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Awards

### Dr. Adam Leaché Awarded Fulbright US Scholarship

UW Department of Biology



Dr. Adam Leaché *(pictured)*, UW Biology Professor, has been awarded a Fulbright US Scholarship. Fulbright Scholar awards provide unique opportunities for scholars to teach and conduct research abroad. With the scholarship, Dr. Leaché plans to work at the Foundation for Research and Technology Hellas in the Institute of Computer Science in Greece. [Read More](#)

### Undergraduate Researcher Abigail Burtner Receives Churchill Scholarship

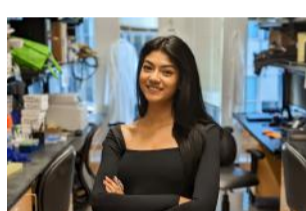
Institute for Protein Design



Already named a Goldwater Scholar, Mary Gates Scholar, and Washington Research Foundation Fellow, Abby Burtner *(pictured)* has been conducting research since her freshman year. The Institute for Protein Design has announced that she has also just been named a 2024 Churchill Scholar in recognition of her outstanding achievements in the field of biochemistry. [Read More](#)

### Three UW Students Named 2024 Goldwater Scholars

UW Home Undergraduate Academic Affairs



Three University of Washington undergraduates have been honored as Goldwater Scholars by the Goldwater Foundation. The Scholars Program was created to encourage outstanding students to pursue careers in mathematics, the natural sciences, or engineering and to foster excellence in these fields. The three awardees are Dania Ahmed *(pictured)*, Annabella Li, and Masa Nakura-Fan. [Read More](#)

### Alison Crowe Named One of Two Inaugural Recipients of the Dissemination of Arabidopsis Knowledge Award

UW Department of Biology



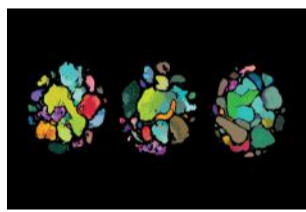
Biology Teaching Dr. Alison Crowe *(pictured)* was awarded an inaugural "Dissemination of Arabidopsis Knowledge" award by the North American Arabidopsis Steering Committee for her exemplary ability to support learning using Arabidopsis. Arabidopsis is a model plant that has illuminated our understanding of plant and eukaryotic biological processes through research and education. [Read More](#)

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Local News

### Unraveling the Complexity of the Mammalian Brain

Allen Institute



To understand the brain in health and disease, we must first understand its parts: the cells. All of the rich complexity of the brain has been discovered and documented by scientists. Led by the Allen Institute, researchers have produced the first complete cell type atlas of a mammalian brain (the mouse) and uncovered astonishing diversity. [Read More](#)

### Scientists Discover Potential Treatment Approaches for Polycystic Kidney Disease

National Institutes of Health



Researchers have shown that dangerous cysts, which form over time in polycystic kidney disease (PKD), can be prevented by a single normal copy of a defective gene. This means the potential exists that scientists could one day tailor a gene therapy to treat the disease. They also discovered that a type of drug, known as a glycoside, can sidestep the effects of the defective gene in PKD. [Read More](#)

### Unveiling Solutions: The Vital Role of UW Center for Translational Muscle Research in Addressing Skeletal Muscle Dysfunction

UW Department of Bioengineering



Skeletal muscle dysfunction is increasingly recognized as a major public health issue, leading to diminished quality of life and independence among affected individuals. Dr. Michael Regnier *(pictured)* is working to accelerate research in understanding and treating skeletal muscle dysfunction, seeking to enhance the bench-to-bedside impact of muscle research in the US and beyond. [Read More](#)

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Interesting Articles

### CFAR Stephau Elite Wallace Community Investigator Awards

Center for AIDS Research (CFAR)



The purpose of the UW and Fred Hutch CFAR's Stephau Elite Wallace Community Investigator Awards are to grow capacity for community-led HIV research with funding, mentoring, and educational support for community leaders. The Wallace Awards provide operational support and funding of \$5,000-\$20,000 per award for one to two years and applications are open until April 25, 2024. [Read More](#)

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### 📅 Upcoming Events in Seattle

- April 23  
4:00 PM

**Research After Dark Networking: Science Pitch Workshop**  
Fred Hutch
- April 27  
9:00 AM

**SEP School Year Workshop: Cancer Fighting Proteins**  
Fred Hutch
- May 2  
2:00 PM

**Clinical Study Requirements for New Products**  
Online
- May 9  
5:30 PM

**Activator Demo Day**  
400 Dexter Ave N.
- June 25  
8:00 AM

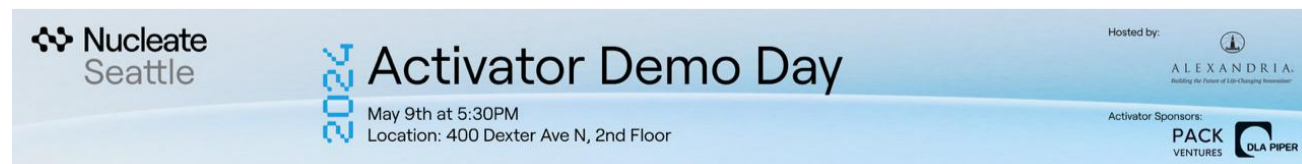
**7<sup>th</sup> TERMIS World Congress**  
Seattle Convention Center






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### 🏢 Science Jobs in Seattle

- Senior Research Associate, R&D**  
Brainchild Bio
- Scientist, SBX Molecular Engineering**  
Roche
- Pediatric Bone Marrow Transplant/Immunotherapy Fellow**  
Fred Hutch
- Medical Science Liaison**  
Syneos Health
- Scientist/Senior Scientist Biologics Formulation**  
EPM Scientific

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**Activator Demo Day**  
 Hosted by:   
 May 9th at 5:30PM  
 Location: 400 Dexter Ave N, 2nd Floor  
 Activator Sponsors:  

Submit your articles and events by reaching out to us at [info@scienceinseattle.com](mailto:info@scienceinseattle.com).

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