

Publications of the Week

The Proteomic Landscape and Temporal Dynamics of Human and Mouse Gastruloid Development

First Author: Riddhiman Garge | Senior Author: Devin Schweppe (*pictured*)
Nature Cell Biology | Brotman Baty Institute, Seattle Hub for Synthetic Biology, and UW



The embryo establishes a body plan and primes itself for organogenesis during gastrulation. As gastrulation is challenging to study *in vivo*, stem-cell-derived ‘gastruloids’ have emerged as powerful surrogates. Although transcriptomics and imaging have been applied extensively to such embryo models, the dynamics of their proteomes remains largely unknown. Here the authors apply quantitative proteomics to human and mouse gastruloids at four key stages. [Abstract](#) | [Press Release](#)

Host Oxidative Stress Primes Mycobacteria for Rapid Antibiotic Resistance Evolution

First Author: Evan Pepper-Tunick (*pictured*) | Senior Author: Nitin Baliga
Nature Communications | Institute for Systems Biology, Seattle Children’s Research Institute, and UW



The rapid emergence of multidrug-resistant *Mycobacterium tuberculosis* (Mtb) threatens global tuberculosis control, yet the mechanisms enabling rapid evolution of resistance in Mtb remain poorly understood. Here, the authors show that pre-existing mutations in oxidative stress response genes create permissive genomic backgrounds that accelerate high-level isoniazid resistance, challenging the paradigm that resistance mutations must precede compensatory adaptation. [Abstract](#) | [Press Release](#)

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Awards

KPWHRI Awarded Funding to Study Antinausea Drugs in Pregnancy

Kaiser Permanente Washington Health Research Institute



Up to 20% of pregnant people take a prescription antinausea medication. While several medications are available, there is limited data on which works best, and questions have been raised about the safety of some medications for the fetus. Dr. Sascha Dublin (*pictured*) and colleagues are aiming to fill this important research gap through a new patient-centered comparative clinical effectiveness research project. [Read More](#)

Dr. Hans-Peter Kiem Receives ASGCT Mentorship Award

Fred Hutch



Dr. Hans-Peter Kiem (*pictured*), who holds the Stephanus Family Endowed Chair for Cell and Gene Therapy, has been awarded the 2026 George Stamatoyannopoulos Mentorship Award by the American Society of Gene and Cell Therapy (ASGCT). The award recognizes people for their contributions to mentorship, education, training, or support of students, medical residents, fellows, trainees or other early-career professionals. [Read More](#)

Dr. Kalei Combs Named Fulbright Scholar

UW Department of Bioengineering



UW Bioengineering’s Kalei Combs (*pictured*) has earned the Mid-Career Professional Development Grant from the Fulbright Finland Foundation for the fall of 2026. While a Fulbright Scholar, she will develop a framework for a new doctoral biomedical research exchange between the University of Washington and Tampere University in Finland. [Read More](#)

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Local News

Preserving Insulin in Diabetes

UW Medicine



Researchers led by Dr. Irl Hirsch (*pictured*) are seeking adults recently diagnosed with type 1 diabetes for a clinical trial of an investigational drug that may protect insulin-producing cells from destruction. The study will involve an investigational treatment of a test drug, CNP-103, which was developed by COUR Pharmaceuticals, an Illinois-based company. [Read More](#)

Is a Well-Behaved Immune System Key to Successful Transplant Outcomes?

Fred Hutch



Dr. Kate Markey (*pictured*) has discovered a link between the intestinal microbiome and chronic graft-versus-host disease, a common complication of allogeneic stem cell transplants. This type of bone marrow transplant is used to treat aggressive blood cancers such as leukemia and involves replacing the immune system of the patient with one from a donor. [Read More](#)

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Interesting Articles

Washington Research Foundation Seeks Graduate Students and Postdocs for Ninth Cohort of WRF Venture Analysts

Washington Research Foundation



Washington Research Foundation (WRF) will accept applications between April 30 and May 17, 2026, for the ninth cohort of WRF Venture Analysts to support its grantmaking and venture investment activities. 34 analysts have worked with WRF since the program launched in 2019. Selected candidates are appointed for one year and work part time alongside WRF staff, evaluating grant and investment opportunities under consideration by the Foundation. [Read More](#)

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Upcoming Events in Seattle

May 15
8:00 a.m.

Pacific Northwest Symposium on Cancer Genetics and Prevention
Online

May 15
10:30 a.m.

PacSci Ignite Luncheon
Fisher Pavilion

May 16
10:00 a.m.

UW Biology Presents: Biology Open House
UW Life Sciences Building University of Washington

May 20
8:00 p.m.

Seattle AWIS: Lumen Bioscience: Drugs from Algae
Fred Hutch

May 21
12:00 p.m.

ISCRM Annual Stem Cell Mini-Symposium 2026
Orin Smith Auditorium

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Science Jobs in Seattle

Field Service Engineer
STEMCELL Technologies

Research Scientist/Engineer 3, Genome Evolution in Yeast
UW

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