



Publications of the Week

The Diverse Evolutionary Histories of Domesticated Metaviral Capsid Genes in Mammals

First Author: William Henriques | Senior Author: Harmit Malik (*pictured*)
Molecular Biology and Evolution | Howard Hughes Medical Institute and Fred Hutch



Using a complete human genome assembly and 25 additional vertebrate genomes, researchers re-analyzed the evolutionary trajectories and functional potential of capsid genes domesticated from *Metaviridae*, a lineage of retrovirus-like retrotransposons. This study expands on previous analyses to unearth several new insights about the evolutionary histories of these ancient genes. [Abstract](#)

Removal of Exogenous Stimuli Reveals a Canalization of Circadian Physiology in a Vertically Migrating Copepod

First Author: Emma Timmins-Schiffman (*pictured*) | Senior Author: Brook Nunn
Journal of Proteome Research | Just-Evotec Biologics and UW



Diel rhythms are observed across taxa and are important for maintaining synchrony between the environment and organismal physiology. This study uncovered a pattern that suggests that there is a canalization of rhythmic diel physiology in *Pleuromamma xiphias* that reflects likely circadian clock control over diverse molecular pathways. [Abstract](#)

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Awards

2024 Diversity Academic Development Scholarship Awards

UW Medicine



The Diversity Academic Development Scholar Award assists highly qualified and meritorious trainees in their transition to the roles of clinician-scholar, physician-scientist, research-scientist, and principal investigator as newly appointed assistant professors. This year's recipients are Drs. Christine Limonte (*pictured, left*) and Vidhushei Yogeswaran (*right*). [Read More](#)

Dr. Grace John-Stewart Receives Distinguished Graduate Mentor Award

UW Medicine



Dr. Grace John-Stewart (*pictured*), Professor of Global Health, Medicine, Epidemiology and Pediatrics has been selected as the 2024 recipient of the Marsha L. Landolt Distinguished Graduate Mentor Award. The Graduate School, with assistance from the President's Office, sponsors this annual award in order to recognize outstanding mentoring of graduate students by faculty. [Read More](#)

Bridging the Gap Between Cancer Drug Target and Cancer Drug

Fred Hutch



Fred Hutch prostate cancer researcher and medical oncologist Dr. Andrew Hsieh (*pictured*) was recently named a 2024 Harrington Scholar-Innovator. The two-year, \$100,000 award will support Dr. Hsieh's efforts to turn an experimental compound into a drug. He is working to target the elevated RNA translation and protein synthesis processes that fuel many tumors, including advanced prostate cancer. [Read More](#)

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Local News

BARseq Reveals the Brain Is Like a Pointillism Painting

Technology Networks



Whether the spatial organization of brain neurons is reflected in their transcriptomics signatures has not been well established. Dr. Xiaoyin Chen (*pictured*) from the Allen Institute for Brain Science was part of the team that developed BARseq, a high-throughput sequencing method that allows scientists to read and localize RNA barcodes *in situ* to investigate gene expression patterns in mouse brains. [Read More](#)

Infectious-Diseases Expert Addresses Bird Flu Concerns

UW Medicine



Avian influenza H5N1 is a virus that mostly affects poultry and wild birds, but the U.S. outbreak of bird flu among dairy herds, and one documented human infection, are raising Americans' concerns about potential health dangers. Dr. Helen Chu (*pictured*), an infectious-diseases expert at UW Medicine, discusses the risk of humans contracting bird flu. [Read More](#)

Why Tiny Changes in Protein Structure Can Lead to Big Problems for the Heart

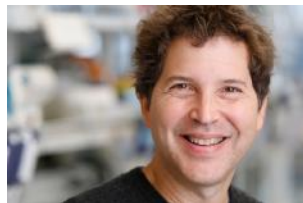
Institute for Stem Cell & Regenerative Medicine



One international team of researchers want to revolutionize the way doctors diagnose and treat hypertrophic cardiomyopathy (HCM), a prevalent, and often deadly, form of heart disease. HCM is a genetic condition that, confoundingly, affects some people with the mutation very seriously and others hardly at all. The team of researchers have provided a summary of their progress on HCM over the last five years. [Read More](#)

TIME Names Dr. David Baker Among 100 Most Influential People in Health

Institute for Protein Design



TIME has named Dr. David Baker (*pictured*) in its inaugural 2024 TIME100 Health. The list recognizes the impact, innovation, and achievement of the world's 100 most influential individuals in health. Dr. Baker is the Director of the Institute for Protein Design, an HHMI Investigator, and a Professor of biochemistry at the UW School of Medicine. [Read More](#)

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Upcoming Events in Seattle

May 22 8:30 AM	BRI Immunology Symposium: New Horizons in Immunity and Disease Town Hall Seattle
May 22 12:00 PM	PNRI's Science Matters Seminar: Advancing Diagnostics in Rare Diseases: Multiomics Approaches and Innovations in Sweden Online
June 11 9:00 AM	Human and Non-Human Primate Brain Atlases and Tools Online
June 25 8:00 AM	7th TERMIS World Congress Seattle Convention Center
July 15 - 17 8:00 AM	2024 Allen Institute Modeling Software Workshop Allen Institute

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Science Jobs in Seattle

- Research Scientist/Engineer Senior, Yeast Genomics**
UW
- Lab Assistant**
Roche
- Program Coordinator II, Science Education**
Seattle Children's
- Surveillance Lead, Strengthening Infectious Disease Detection System (STRIDES)**
PATH
- Neuromuscular Medical Science Liaison**
IQVIA

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