

Publications of the Week
Label-Free Prediction of Three-Dimensional Fluorescence Images from Transmitted-Light Microscopy

 First Author: Chawin Ounkomol | Senior Author: Gregory Johnson
 Nature Methods | Allen Institute for Brain Science and Allen Institute for Cell Science (group pictured below)


Understanding cells as integrated systems is central to modern biology. Although fluorescence microscopy can resolve subcellular structure in living cells, it is expensive, slow, and can damage cells. The authors present a label-free method for predicting three-dimensional fluorescence directly from transmitted-light images and demonstrate that it can be used to generate multi-structure, integrated images. [Profile](#) | [Abstract](#)

Transcriptional Fates of Human-Specific Segmental Duplications in Brain

 First Author: Max Dougherty | Senior Author: Evan Eichler (pictured)
 Genome Research | UW School of Medicine


Despite the importance of duplicate genes for evolutionary adaptation, accurate gene annotation is often incomplete, incorrect, or lacking in regions of segmental duplication. The authors developed an approach combining long-read sequencing and hybridization capture to yield full-length transcript information and confidently distinguish between nearly identical genes/paralogs. [Abstract](#)

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Awards
Jeannette Tenthorey Named HHMI Hanna H. Gray Fellow

Fred Hutchinson Cancer Research Center



Dr. Jeannette Tenthorey (pictured) of Seattle's Fred Hutch has been named as one of 15 "exceptional early career scientists" by the Howard Hughes Medical Institute (HHMI) and will receive eight years of financial support through its Hanna H. Gray Fellows Program. The grant is designed to help research centers recruit and retain young women as well as underrepresented minorities pursuing careers in the life sciences. [Read More](#)

Hyundai Hope on Wheels Presents Fred Hutch Scientist with Grant for Childhood Leukemia Research

Fred Hutchinson Cancer Research Center



The Hyundai Hope on Wheels Foundation has awarded Dr. Roland Walter (pictured), a clinical researcher at Fred Hutch, with a grant to support his leukemia research. He received the \$300,000 Hyundai Hope Scholar Grant in a ceremony at Fred Hutch as part of Hyundai's annual nationwide campaign to support pediatric cancer research during National Childhood Cancer Awareness Month. [Read More](#)

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Local News
Takato Imaizumi on Arabidopsis Gene Activity and Lab Growing Conditions

UW Department of Biology



An international team led by UW Biology Professor Takato Imaizumi has discovered that the gene *FT* — the primary driver of the transition to flowering in plants each spring — does something unexpected in *Arabidopsis thaliana* plants grown in natural environments, with implications for the artificial growing conditions scientists commonly used in the lab. [Read More](#)

Fred Hutch Study Discovers How Cancer Evades Immunotherapies, Sometimes Returning Years Later

Geek Wire



Researchers at Fred Hutch, led by Dr. Aude Chapuis (pictured), have discovered that relapsed Merkel cell carcinoma, a skin cancer, actually turns off a specific gene that lets T cells find and destroy the cancer, effectively shielding the disease from this immunotherapy treatment. The results point towards the need to use multiple treatments at once to fully thwart a patient's cancer, forestalling a relapse. [Read More](#)

Hit 'Em Where They Eat. Stealth Drug Fights Resistant Bacteria

UW Medicine



The lack of new antibiotics is among the most critical challenges facing medicine. Researchers have been on the hunt for new drugs to combat "superbugs" that cannot be penetrated by current antibiotics. Rather than looking for drugs that forcibly penetrate bacteria, researchers at UW have tried a new approach: tricking bacteria into taking up a molecule that looks like food, but wreaks havoc once inside. [Read More](#)

Lunar Library to Include Photos, Books Stored in DNA

UW News



People who have submitted photos to the #MemoriesInDNA project have selected images of family members, favorite places and tasty food that will be preserved for years in the form of synthetic DNA. Now this collection — which currently contains more than 3,000 images and is still growing — will be headed to the final frontier: space. [Read More](#)

UW Named a Genome Center for NIH All of Us

UW Medicine



The Northwest Genomics Center at UW in Seattle will become one of three genome centers around the country for the National Institutes of Health (NIH) All of Us Research Program. The program is gathering data from participants from many backgrounds to create a national medical research resource for improving precision medicine. The project aims to include one million or more people across the country. [Read More](#)

Merck Fellows Share Skills for Drug Discovery

Infectious Disease Research Institute



As part of the prestigious Merck Fellowship for Global Health program, the Infectious Disease Research Institute (IDRI) is hosting three fellows in Seattle for three months to assist IDRI scientists in implementing drug metabolism and pharmacokinetic studies, a critical component of a fast-functioning, productive drug discovery program. The Merck Fellows come from around the world bringing expertise ranging from account management to chemistry. [Read More](#)

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Interesting Articles
Trump Administration Launches Review of Scientific Research Involving Fetal Tissue

STAT News



The Trump administration has launched a comprehensive review of all research that involves fetal tissue, reopening an issue that has galvanized anti-abortion activists, but worried scientists who fear their work could be under threat. In a statement, the Department of Health and Human Services said it would review whether current oversight of fetal tissue is adequate "in light of the serious regulatory, moral, and ethical considerations involved." [Read More](#)

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Upcoming Events in Seattle

- October 6 7:00 PM **In for the Hutch**
Fremont Studios
- October 9 7:00 PM **Science in the City: Tuberculosis Treatment**
Pacific Science Center
- October 10 8:30 AM **From the Laboratory to Leadership**
Agora Conference Center
- October 11 - 13 5:30 PM **Regenerative Rehabilitation Symposium**
Woodmark Hotel & Spa
- October 22 - 24 8:00 AM **3rd Seattle Symposium on Health Care Data Analytics**
Hyatt Olive 8

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Science Jobs in Seattle

- Lecturer, Genome Sciences**
UW Department of Genome Sciences
- Medical Science Liaison, Hematology**
Celgene
- Post-Doctoral Scientist, Non-Viral Delivery Formulation**
Juno Therapeutics
- Senior Director, Regulatory Affairs**
Zymeworks
- Animal Care Technician II**
Allen Institute for Brain Science

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