

## Publications of the Week

**Microtubule Integrity Regulates Budding Yeast Ram Pathway Gene Expression**

 First Author: Cameron Lee | Senior Author: Sue Biggins (pictured)  
 Frontiers in Cell and Developmental Biology | Fred Hutch


Entry and exit from mitosis is largely controlled by waves of cyclin-dependent kinase (CDK) activity coupled to targeted protein degradation. The correct timing of CDK-based mitotic regulation is coordinated with the structure and function of microtubules. To determine whether mitotic gene expression is also regulated by the integrity of microtubules, the authors performed ribosome profiling and mRNA-sequencing in the presence and absence of microtubules in the budding yeast *Saccharomyces cerevisiae*. [Abstract](#)

**In Situ Tools for Chromatin Structural Epigenomics**

 First Author: Steven Hanikoff | Senior Author: Kami Ahmad (pictured)  
 Protein Science | Fred Hutch


Technological progress over the past 15 years has fueled an explosion in genome-wide chromatin profiling tools that take advantage of low-cost short-read sequencing technologies to map particular chromatin features. The authors survey the recent development of epigenomic tools that provide precise positions of chromatin proteins genome-wide in intact cells or nuclei. [Abstract](#)

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## Local News

**Alpine Immune Sciences Raising \$100M in Public Offering**

Seattle Inno



Seattle-based biotech Alpine Immune Sciences is raising \$100 million through an underwritten public offering. With the new funding, Alpine Co-Founder and CEO Dr. Mitchell Gold (pictured) said the biotech now has more than three years of runway. He added that the company, which now has about 130 people, has grown 65% over the past nine months. [Read More](#)

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**Saliva Tests Might Mean Earlier Oral Cancer Detection**

UW Medicine



Saliva testing is emerging as a potential option to detect oral cavity cancer – a condition often difficult to identify early and which usually becomes a painful ordeal for patients as it progresses. “The way it’s diagnosed is typically with a biopsy, and that biopsy can be painful,” said Dr. Brittany Barber (pictured), a head and neck surgeon at UW Medicine. “Other diagnostic techniques would be very useful and a lot more comfortable for the patient.” [Read More](#)

**Exploring Regenerative Potential in Zebrafish and Humans**

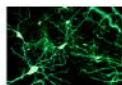
Institute for Stem Cell &amp; Regenerative Medicine (ISCRM)



ISCRM faculty member Dr. Ren Kwon is an Associate Professor of Orthopaedics and Sports Medicine, and the Director of the Musculoskeletal Systems Biology Lab. His lab is trying to answer a question that has tantalized scientists for centuries: Why are some animals, including zebrafish and salamanders, able to regrow bony appendages such as limbs after amputation – and could something in the biology of these animals teach us to someday regenerate human limbs? [Read More](#)

**UW Joins Industry-Academia Alliance to Accelerate Research in Neuroscience**

UW News



UW has joined the Alliance for Therapies in Neuroscience (ATN), a long-term research partnership between academia and industry geared to transform the fight against brain diseases and disorders of the central nervous system. The ATN seeks to accelerate the development of new therapies for a broad range of brain and central nervous system conditions, such as Alzheimer’s disease, Lou Gehrig’s disease, Huntington’s disease, Parkinson’s disease, and autism. [Read More](#)



science and lifesaving skills of its single unified organization. “Unifying Seattle Cancer Care Alliance and Fred Hutchinson Cancer Research Center will enable us to accelerate our shared mission of putting the world’s most devastating diseases behind us,” said Fred Hutch President and Director Dr. Thomas J. Lynch Jr. [Read More](#)

**Large Genomic Study on Stroke Informs Drug Discovery and Risk Prediction across Ancestries**



The results of the largest genomic study on stroke thus far have been published. The study was based on DNA samples of more than 2.5 million participants of whom 200,000 had a stroke. Participants were of European, East-Asian, African, South-Asian, and Latin-American ancestry (a third of stroke patients were non-European). They were derived from numerous hospital-based and population-based cohorts and biobanks, as well as five clinical trials. [Read More](#)

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### Upcoming Events in Seattle

- October 12  
4:00 pm

**DeviceConnect: Modern Innovations in Diagnostics**  
Life Science Washington
- October 17-20  
12:30 pm

**CytoData 2022**  
Allen Institute
- October 20  
4:30 pm

**Washington State Life Science Summit 2022**  
Life Science Washington
- October 26  
5:30 pm

**"Of Medicine and Miracles" A Special Film Screening**  
The Seattle Public Library
- October 26-27  
9:00 am

**BioBasics 101: The Biology of Biotech for the Non-Scientist**  
Life Science Washington

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### Science Jobs in Seattle

**Scientist Immunology**  
Seagen

**Animal Technician I**  
Allen Institute

**Scientist**  
Zymeworks

**Assistant or Associate Professor, Bone Marrow Transplant/Gene Therapy**  
Fred Hutch

**Bioinformatics Postdoctoral Research Associate**  
Bevanoya Research Institute at Virginia Mason

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