

Publications of the Week
RNA-Binding Protein Isoforms ZAP-S and ZAP-L Have Distinct Antiviral and Immune Resolution Functions

 First Author: Johannes Schwerk *(pictured)* | Senior Author: Ram Savan
 Nature Immunology | UW Medicine


The authors have found that isoforms of the RNA-binding protein ZAP function as both a direct antiviral restriction factor and an interferon-resolution factor. The two isoforms contained identical RNA-targeting domains, but differences in their intracellular localization modulated specificity for host versus viral RNA, which resulted in disparate effects on viral replication during the innate immune response. [Profile](#) | [Abstract](#)

A High-Resolution Landscape of Mutations in the BCL6 Super-Enhancer in Normal Human B Cells

 First Author: Jiang-Cheng Shen | Senior Author: Lawrence Loeb *(pictured)*
 PNAS | UW


The authors used duplex sequencing to detect low-frequency mutations in the BCL6 super-enhancer locus in normal human B cells. The landscape of preexisting mutations was shown to be remarkably conserved across different ethnicities and reveals clustered mutational hotspots that correlate with reported sites of clonal mutations and translocation breakpoints in human B cell lymphomas. [Abstract](#)

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Local News
Researchers Find Clue to Preventing Addiction Relapse

UW Medicine



With any addiction in which a user has successfully resisted a chemical, activity or substance, relapse is vexing. New research led by Dr. Susan Ferguson, Director of the Alcohol and Drug Abuse Institute at UW, has shown that relapse can be prevented by controlling cells in a brain region called the nucleus accumbens. The study was conducted among 90 Sprague Dawley rats with genetic diversity. [Read More](#)

How the Flu Vaccine Is Made Each Year to Keep Up with Constantly Mutating Versions of the Virus

The Seattle Times



Flu viruses are mutating masters, always on the move to outwit scientists and their vaccines. This ability to adapt quickly, and the range of flu-virus strains, requires a new vaccine every flu season to match what's circulating that year. Dr. John Dunn, Medical Director for Preventive Care at Kaiser Permanente Washington, explained that even though the flu is discussed in terms of seasons, it's always circulating, and it affects populations all over the world. [Read More](#)

Cyrus Biotechnology and the Broad Institute of MIT and Harvard Launch Multi-Target Collaboration to Develop Optimized CRISPR Gene Editing Technology

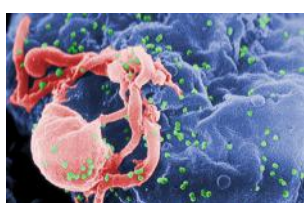
Cyrus Biotechnology Inc.



Seattle-based Cyrus Biotechnology, Inc. and the Broad Institute of MIT and Harvard have embarked on a scientific collaboration to optimize CRISPR for use in developing novel human therapeutics. Together, researchers from Cyrus and Broad will work together to mitigate the possibility of the body mounting an immune response against CRISPR. [Read More](#)

World AIDS Day: Stepping Up the Search for a Cure

Fred Hutch



Nearly 38 million men, women and children are living with HIV/AIDS, a disease that still has no cure. However, with philanthropic and government support, scientists at Fred Hutch are working the long game. In addition to developing and testing HIV vaccines, they play a leading role in an expanding global effort to find a true cure, where the virus is stopped without the constant need for antiviral drugs. [Read More](#)

Biomarker-Driven Treatment Selection for Prostate and Other Genitourinary Cancers

The ASCO Post



As the Nobel Laureate Bob Dyian wrote, "The times they are a-changin'". Dr. Heather Cheng *(pictured)*, Director of the Seattle Cancer Care Alliance's Prostate Cancer Genetics Clinic, quoted this line in regard to biomarkers for molecularly driven therapy for prostate and other genitourinary cancers, emphasizing the progress that has been made. [Read More](#)

PATH Names Mr. Nikolaj Gilbert as President and CEO

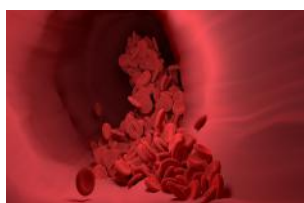
PATH



PATH has announced that its Board of Directors has unanimously chosen global development leader Nikolaj Gilbert *(pictured)* as the organization's next President and Chief Executive Officer to lead PATH's global efforts to accelerate health equity through innovation and partnerships. He brings broad experience in innovation, health, peacebuilding, humanitarian aid, and development solutions. [Read More](#)

Omeros Reports Positive Data Across Primary and Secondary Endpoints in Pivotal Trial of Hematopoietic Stem Cell Transplant-Associated Thrombotic Microangiopathy Patients Treated with Narsoplimab

Omeros Corporation



Omeros Corporation has announced positive data from its pivotal clinical trial of the company's novel investigational complement inhibitor narsoplimab in the treatment of hematopoietic stem cell transplant (HSCT)-associated thrombotic microangiopathy, a frequently lethal complication of HSCT. The reported data support a strongly positive benefit-risk balance. [Read More](#)

Doctors Developing Ways to Delay Diabetes

WQAD 8



A new global study led by investigators at Benaroya Research Institute has shown that an immunotherapy drug can delay the onset of Type 1 Diabetes for two years in high risk kids and adults. A set of twins is living proof. Twins Megan and Madeline Coder were different in one way: Megan was diagnosed with diabetes at age nine. Madeline got infusions of teplizumab for 14 days. She didn't get diabetes for two years. [Read More](#)

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Upcoming Events in Seattle

- December 10 7:00 PM **Science in the City, Global Health: Facing the Future**
PACCAR Theater
- December 11 8:00 AM **BioTech & Bagels Morning Meetup in SLU**
Capital One Café
- December 13 8:30 AM **Seattle Cell Science Symposium**
Allen Institute
- December 16 7:00 PM **Climate Science on Tap: Crops, Carbon and Climate Change**
Optimism Brewing
- December 31 9:00 PM **Spectra NYE 2020**
Pacific Science Center

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- Principal Scientist, Formulation, Delivery and Device**
Seattle Genetics
- Scientist II, Immune Cell Signaling & Tissue Microenvironments**
Allen Institute for Immunology
- Senior Research Scientist/Engineer, Virology**
UW Department of Laboratory Medicine
- Post-Doctoral Research Fellow, Cancer Genetics**
Fred Hutchinson Cancer Research Center

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