

**Publications of the Week**
**Intricate Genetic Programs Controlling Dormancy in *Mycobacterium tuberculosis***

 First Author: Eliza Peterson (*pictured*) | Senior Author: Nitin Baliga  
 Cell Reports | Institute for Systems Biology and UW


*Mycobacterium tuberculosis* (MTB) kills more people each year than any other infectious agent. Scientists developed an experimental platform to characterize MTB's response to changing O<sub>2</sub> levels in considerably more depth. They reveal detailed transcriptional dynamics and coordinated regulatory circuits that enable the pathogen's transition into and out of hypoxia-induced dormancy. [Abstract](#)

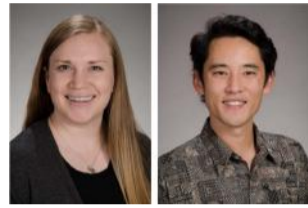
**APOBEC3C Tandem Domain Proteins Create Super Restriction Factors against HIV-1**

 First Author: Mollie McDonnell | Senior Author: Michael Emerman (*pictured*)  
 mBio | Fred Hutch and UW


APOBEC3C (A3C) is an example of a host antiviral protein, which weakly inhibits HIV-1. The authors show that the antiviral activity of A3C can be improved by duplicating the DNA sequence to create a synthetic tandem domain and, furthermore, that the proteins thus generated are relatively resistant to the viral antagonist Vif. [Abstract](#)

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**Awards**
**NIH Funds Kwon Lab Effort to Identify Genetic Risk Factors for Osteoporosis**

Institute for Stem Cell &amp; Regenerative Medicine, UW



With a major grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases of the National Institutes of Health, Drs. Claire Watson (*pictured, left*) and Ronald Kwon (*pictured, right*) from the UW Institute for Stem Cell and Regenerative Medicine faculty are on a mission to confront the root cause of osteoporosis. They are focusing on the primary determinant of bone health: our own genetics. [Read More](#)

**Studying the Complex Interactions Between Antibodies and Viral Targets: Dr. Tal Einav Named Damon Runyon Quantitative Biology Fellow**

Fred Hutch



Dr. Tal Einav (*pictured*), a postdoctoral fellow in Dr. Jesse Bloom's lab, is among the first class of Damon Runyon Quantitative Biology Fellows. The prestigious award supports three years of cancer-related computational research jointly mentored by a computational biologist and cancer biologist. His work will focus on how the immune repertoire can be bolstered to better combat diseases. [Read More](#)

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**Local News**
**Blood Test Monitors Long-Term Adherence to HIV Medications**

Chemical &amp; Engineering News



Researchers have developed a blood test that targets a long-lasting HIV drug metabolite present in blood cells. The test is a first step toward a low-cost, point-of-care lab test that could reveal whether a person took their pills consistently over the previous several weeks. Senior author of the study, Dr. Jonathan Posner (*pictured*) at the University of Washington, says it has yet to be tested with real-world clinical samples. [Read More](#)

**Antibody Neutralizes SARS and COVID-19 Coronaviruses**

UW Medicine



For several years, the laboratory of Dr. David Veessler (*pictured*) has been studying the structure and function of the infection mechanisms on a variety of coronaviruses. The S309 antibody, first identified in 2003, has been found to inhibit the cause of COVID-19. It is now on a fast-track development and testing path at Vir Biotechnology in the next step toward possible clinical trials. [Read More](#)

**Fred Hutch Announces New Collaboration with Roche, Leveraging Digital Technology to Help Cancer Patients Undergoing Chemotherapy**

Fred Hutch



Cancer care and digital health experts at Fred Hutch have announced a collaboration with Roche, to develop and test a digital remote-monitoring system for cancer patients. Hutchinson Institute for Cancer Outcomes Research Director, Dr. Scott Ramsey (*pictured*) outlines their responsibility to look at technologies that could reduce the burden patients face. [Read More](#)

**Skilled Partners in the Conduct of HIV Prevention Trials Join COVID-19 Response**

HIV Vaccine Trials Network



The NIH-funded HIV Vaccine Trials Network (HVTN) and HIV Prevention Trials Network have initiated their first clinical trial in response to COVID-19. Dr. Larry Corey (*pictured*), Principal Investigator, HVTN Leadership Operations Center, says this study will help create the infrastructure required to perform sophisticated SARS-CoV-2 vaccine trials. [Read More](#)

**Takara Bio Selects AGC Biologics as Manufacturer of Plasmid DNA Intermediate for a Vaccine Against COVID-19 (SARS-CoV-2)**

AGC Biologics



AGC Biologics, Seattle-based contract development and manufacturing organization for biopharmaceuticals, has announced its partnership with Takara Bio. The companies will partner in the fight against COVID-19 by collaborating on a prophylaxis DNA vaccine, with AGC Biologics manufacturing the plasmid DNA intermediate for the vaccine. [Read More](#)

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**Upcoming Events in Seattle**

May 27 10:00 AM	<b>Diabetes and Metabolism Seminar Series</b> Online
May 28 3:00 PM	<b>Exploring Career Paths: Taking Your Research to Market Impact</b> Online
May 29 9:00 AM	<b>Immuno-Oncology: BD&amp;L and Investment Forum</b> Online
June 1 6:00 PM	<b>UW Engage Science: Molecular Health, Medical Nanoparticles, Counting Chromosomes</b> Online
June 4 10:00 AM	<b>COVID-19 Research &amp; Commercialization Funding</b> Online

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**Science Jobs in Seattle**

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Allen Institute for Brain Science
- Postdoctoral Research Associate**  
Benaroya Research Institute at Virginia Mason
- Postdoctoral Fellow - Piliponsky Lab**  
Seattle Children's
- Senior Associate Scientist - Life Cycle Management**  
Bristol Myers Squibb
- Director - Drug Safety & Risk Management**  
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