

Publications of the Week

Cross-Protective Antibodies Against Common Endemic Respiratory Viruses

First Author: Madelyn Cabán | Senior Author: Jim Boonyaratankornkit (*pictured*)
Nature Communications | Fred Hutch and UW



Respiratory syncytial virus (RSV), human metapneumovirus (HMPV), and human parainfluenza virus types one (HPIV1) and three (HPIV3) can cause severe disease and death in immunocompromised patients, the elderly, and those with underlying lung disease. The authors present the discovery, *in vitro* characterization, and *in vivo* efficacy testing of two cross-neutralizing monoclonal antibodies, one targeting both HPIV3 and HPIV1 and the other targeting both RSV and HMPV. [Abstract](#)

ATP Is a Major Determinant of Phototrophic Bacterial Longevity in Growth Arrest

First Author: Liang Yin | Senior Author: Caroline Harwood (*pictured*)
mBio | UW



How bacteria transition into growth arrest as part of stationary phase has been well-studied, but our knowledge of features that help cells to stay alive in the following days and weeks is incomplete. The authors compared the physiological and molecular responses of *R. palustris* to growth arrest caused by carbon source depletion in light (energy-replete) and dark (energy-depleted) conditions. [Abstract](#)

[View All Publications](#) ➔

Awards

Dr. Fred Appelbaum Receives Lifetime Achievement Award

UW Medicine



A key member of the team that developed bone marrow transplantation as a successful treatment for leukemia nearly half a century ago, Dr. Frederick Appelbaum (*pictured*), was honored on February 18th with a Lifetime Achievement Award from the American Society for Transplantation and Cellular Therapy at the organization's annual meeting in Orlando, Florida. [Read More](#)

Sheila Lukehart Elected to Fellowship in the American Academy of Microbiology

UW Medicine



Dr. Sheila Lukehart (*pictured*), Professor Emeritus of Allergy and Infectious Diseases, has been elected to Fellowship in the American Academy of Microbiology. The Academy, the honorific leadership group within the American Society for Microbiology, recognizes excellence, originality, service, and leadership in the microbial sciences. [Read More](#)

[View All Awards](#) ➔

Local News

The Hunt Is On for Vaccine Ingredients That Don't Come from Wild Sharks

Chemistry World



Squalene is a natural terpene found in many plants and animals but is especially abundant in shark liver. To avoid the need to use squalene from sharks in vaccines, a team led by Dr. Christopher Fox (*pictured*) worked with β -farnesene, a compound derived from yeast fermentation. Chemical synthesis was used to convert β -farnesene into 20 different analogues of squalene. [Read More](#)

Signaling Proteins Shown to Play Key Role in TB Biology

UW Medicine



Tuberculosis (TB) remains a deadly disease that kills more than 1.6 million people worldwide a year. A set of ten signaling proteins found in the microbe that causes TB play a far larger role in regulating the bacterium's growth, development, and behavior than previously thought, according to recent research. The study was led by UW School of Medicine and Seattle Children's researchers. [Read More](#)

Washington State Lawmakers Seek to Further Curb Drug Prices as Biotech Leaders Raise Alarm

GeekWire



Lawmakers in Washington state are considering legislation that would give a governor-appointed board extra authority to curtail the price of high-cost prescription medications. Proponents say the legislation will increase access to medicines, but industry leaders and some patient groups say it will quash innovation and may curtail availability of some drugs for state residents. [Read More](#)

How Blood Cancer Research Might Help Organ Transplant Patients

Fred Hutch



Of the 92,000 people in the US waiting this year for a kidney transplant, about one in ten will have an especially hard time finding a compatible donor. "Having antibodies against your potential donor is one of the fundamental reasons for rejecting a transplanted organ, which is obviously a huge issue," said Dr. Joshua Hill (*pictured*), a physician-scientist at Fred Hutch. [Read More](#)

COVID-19 Vaccine Found Safe, Effective for Youngest Children

Seattle Children's



For very young children, COVID-19 vaccines have only been available through emergency use authorization and lacked longer-term analysis of their safety, effectiveness, and optimum dosing. New findings from Seattle Children's Research Institute's Center for Clinical and Translational Research reveal the vaccine's safety and efficacy in children ages six months to four years. [Read More](#)

AAHI Celebrates International Women in Science Day

Access to Advanced Health Institute (AAHI)



Tackling some of the world's most complicated challenges requires a comprehensive and balanced approach attainable only with the equal and full participation and leadership of women and girls in science, technology, engineering, and mathematics. A future with the invaluable benefit of women's perspectives depends on continued support and encouragement for women and girls to lean into their curiosity about how the world works and why. [Read More](#)

[View All Articles](#) ➔ | [Submit an Article](#) ➔

📅 Upcoming Events in Seattle

February 28 9:00 am	Expanding Single Cell Capabilities with Immune Profiling and Targeted Gene Capture Online
March 1 5:00 pm	EWIB-Seattle: Executive Women in Bio & eMAPS Happy Hour and Networking Baron's Sino Kitchen and Bar
March 1 5:30 pm	PacSci Happy Hour Pacific Science Center
March 8 8:30 am	From the Laboratory to Leadership – Virtual 2023 Spring Program Online
March 8 - 9 9:00 am	BioBasics 101: The Biology of Biotech for the Non-Scientist 188 E Blaine St Ste 150

[View All Events](#) ➔ | [Submit an Event](#) ➔

📁 Science Jobs in Seattle

- Research Associate II, Clinical Gene Editing**
Universal Cells-Astellas
- Director, Manufacturing**
NanoString
- Scientist, Analytical Development**
Zymeworks
- Clinical Trial Assistant I/II**
Fred Hutch
- Scientist III**
Allen Institute

[View 75 Other Science Jobs](#) ➔ | [Submit a Job](#) ➔



Which Immune Cell Are You? [TAKE QUIZ](#) ➔

Submit your articles and events by reaching out to us at info@scienceinseattle.com.

BROUGHT TO YOU BY



STEMCELL Technologies
Products | Services

STEMCELL Science News
Free Weekly Updates on Your Field

The Stem Cell Podcast
Interviews and Updates on Stem Cell Science