

Publications of the Week

Mucosal Viral Infection Induces a Regulatory T Cell Activation Phenotype Distinct from Tissue Residency in Mouse and Human Tissues

First Author: Brianna Traxinger (pictured, front row, second from right) | Senior Author: Jennifer Lund (back row, second from right)
Mucosal Immunology | Fred Hutch and UW



Mucosal tissues serve as critical barriers to microbes while performing unique physiologic functions, so the authors sought to identify distinct phenotypical and functional aspects of mucosal regulatory T cells (Tregs) in the female reproductive tract. In healthy human and mouse vaginal mucosa, they found that Tregs are highly activated compared to blood or lymphoid tissue Tregs. [Profile](#) | [Abstract](#)

TOLLIP Optimizes Dendritic Cell Maturation to Lipopolysaccharide and Mycobacterium tuberculosis

First Author: Sambasivan Venkatasubramanian | Senior Author: Javeed Shah (pictured)
The Journal of Immunology | UW and Seattle Children's



Human TOLLIP deficiency is associated with increased tuberculosis risk and diminished frequency of bacillus Calmette–Guérin vaccine-specific CD4⁺ T cells in infants. To understand the mechanistic relationship between TOLLIP and adaptive immune responses, the authors used human genetic and murine models to evaluate the role of TOLLIP in dendritic cell function. [Profile](#) | [Abstract](#)

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Awards

Grant for Escobar Lab Funds AML Research

UW Institute for Stem Cell and Regenerative Medicine (ISCRM)



As a postdoc in the lab of Dr. Danny Reinberg at NYU, ISCRM member Dr. Thelma Escobar (pictured) received support from the National Cancer Institute through the CURE program, which provides funding to increase diversity in cancer research. That grant allowed her to study chromatin inheritance, and led to her discovery, detailed in *Science Advances*, that the protein NPM1 has a role in the inheritance of chromatin modifications. [Read More](#)

Albert Folch Elected Member of the Institute for Catalan Studies

UW Department of Bioengineering



The Institute for Catalan Studies, based in Barcelona, Spain, has named UW Professor of Bioengineering Dr. Albert Folch (pictured) as a member of its Science and Technology Section. The Folch lab is developing the next generation of microfluidic devices to test multiple cancer drugs in small, intact tumor biopsies to determine the most effective treatment options for individual patients. [Read More](#)

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Local News

Booster Shots Offset Some Omicron Immune Evasion Tactics

UW Medicine



Although Omicron subvariants of the SARS-CoV-2 pandemic coronavirus have evolved to evade antibody responses from the primary COVID-19 vaccine series, a new laboratory study conducted by the team of Dr. David Veesler (pictured) suggests current vaccine boosters may elicit sufficient immune protection against severe Omicron-induced COVID-19 disease. [Read More](#)

Dispatches from the Microbial Frontier of Cancer Research

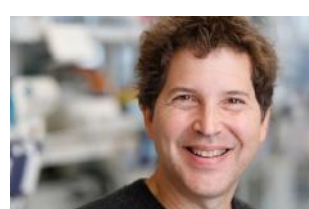
Fred Hutch



Dr. Kate Markey (pictured), a newly appointed Assistant Professor at Fred Hutch, has been studying how the gut microbiome interacts with the immune system, and in particular how that might affect the outcome of bone marrow and blood stem cell transplantation. In the long run, Dr. Markey said she hopes a greater understanding of the microbiome will help scientists develop more direct ways to harness the immune system to fight cancer and make transplants safer. [Read More](#)

Biologists Train AI to Generate Medicines and Vaccines

UW Medicine



Scientists have developed artificial intelligence (AI) software that can create proteins that may be useful as vaccines, cancer treatments, or even tools for pulling carbon pollution out of the air. This research, recently reported in the journal *Science*, was led by UW Medicine and Harvard University. "The proteins we find in nature are amazing molecules, but designed proteins can do so much more," said senior author David Baker (pictured). [Read More](#)

Alpenglow Biosciences and CorePlus Partner Together to Bring 3D Spatial Biology to Clinical Research and Development

BioSpace



Alpenglow, developers of an innovative end-to-end 3D spatial biology platform, have announced a partnership with CorePlus to digitize and analyze tissues in 3D to deliver novel spatial biology insights and accelerate drug development. As part of the partnership, CorePlus will invest an undisclosed sum into Alpenglow and receive access to Alpenglow's 3Deep Imager, a patented hybrid open top lightsheet imaging platform. [Read More](#)

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Upcoming Events in Seattle

July 27 9:00 AM	2022 OpenScope Applicant Webinar Online
July 4:00 PM	Life Science Washington HR Connect Summer Gathering Life Science Washington
July 30 8:00 AM	2022 IPCR Symposium Fred Hutch – Pelton Auditorium
August 13 6:30 AM	Obliteride UW Parking Lot (E18)
August 18 4:30 PM	Life Science Washington Annual Summer Social Rooftop Deck Seattle

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Science Jobs in Seattle

- Research Technician I-II**
Fred Hutch
- Scientist II, AAV Gene Therapy, Therapeutic Lead**
Allen Institute
- Postdoctoral Fellow, Research**
Seattle Children's
- Senior Research Scientist II, Autoimmune Disease**
Gilead Sciences
- Research Technician I**
Benaroya Research Institute at Virginia Mason

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