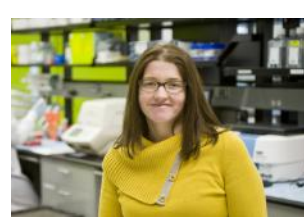


Publications of the Week
Extricating Human Tumor Immune Alterations from Tissue Inflammation

 First Authors: Florian Mair (pictured, left) and Jami Erickson (center) | Senior Author: Martin Prlic (right)
 Nature | Fred Hutch and UW


Despite great efforts to define inflammatory processes in the tumor microenvironment, the understanding of tumor-unique immune alterations is limited by a knowledge gap regarding the immune cell populations in inflamed human tissues. The authors used complementary single-cell analysis approaches to interrogate the immune infiltrate in human head and neck squamous cell carcinomas and site-matched non-malignant, inflamed tissues. [Profile](#) | [Abstract](#) | [Press Release](#)

Modified Manufacturing Process Modulates CD19 CAR T Cell Engraftment Fitness and Leukemia-Free Survival in Pediatric and Young Adult Subjects

 First Author: Francesco Ceppi | Senior Author: Rebecca Gardner (pictured)
 Cancer Immunology Research | Seattle Children's, Fred Hutch, and UW


The authors previously reported a robust intent-to-treat product manufacturing success rate and remission induction rate in children and young adults with recurrent/refractory B cell acute lymphoblastic leukemia using the SCRI-CAR19v1 product. Following completion of the Phase I study, two changes to chimeric-antigen receptor (CAR) T cell manufacturing were introduced: switching the T cell activation reagent and omitting mid-culture EGFRt immunomagnetic selection. [Abstract](#)

A Recombinant Alpha-Like Protein Subunit Vaccine (GBS-NN) Provides Protection in Murine Models of Group B Streptococcus Infection Get Access Arrow

 First Author: Alyssa Brokaw | Senior Author: Lakshmi Rajagopal (pictured)
 The Journal of Infectious Diseases | Seattle Children's and UW


The Group B *Streptococcus* (GBS)-NN vaccine, engineered by fusing N-terminal domains of GBS alpha C and Rib proteins, is safe in healthy, non-pregnant women, but further assessment is needed for use during pregnancy. Here, the authors tested GBS-NN vaccine efficacy using mouse models that recapitulate human GBS infection outcomes. [Abstract](#)

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Awards
"Spine at Risk" Safety Program Receives Prestigious Award from POSNA

Seattle Children's



This year's 2022 Quality, Safety, and Value Initiative Grant Winner, awarded by the Pediatric Orthopedic Society of North America (POSNA), is Dr. Jennifer Bauer (pictured), Chief of Spine Surgery at Seattle Children's hospital. Dr. Bauer was awarded this grant for her innovative work on the Spine at Risk Safety Program, which was done in partnership with co-investigators and Seattle Children's spine partners Drs. Burt Yaszay, Wally Krenzel, and Klane White. [Read More](#)

BioE Faculty Win FACET Awards, Nominated by Students

UW Bioengineering



Three UW Bioengineering (BioE) core faculty members were honored with Faculty Appreciation for Career Education & Training (FACET) awards for their positive influence on students' careers and professional development. UW's Career Center at Engineering honored Drs. Soraya Bailey (pictured, left), Assistant Teaching Professor, Suzie Pun (center), Washington Research Foundation Professor, and Alyssa Taylor (right), Associate Teaching Professor. [Read More](#)

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Local News
Gut Microbiome Composition Predictive of Patient Response to Statins

Institute for Systems Biology (ISB)



While statins have been shown to effectively lower cholesterol levels and reduce the risks of stroke and heart attack, they do not work the same for everyone, and side effects of statin use include an increased risk of developing type 2 diabetes. Researchers from ISB have shown that different patient responses to statins can be explained by the variation in the human microbiome. [Read More](#)

Unlocking Biotechnology with RNA

UW Molecular Engineering & Sciences Institute



Imagine if there were drugs that could optimize their dose in real-time, leading to better patient outcomes. Cellular factories that could self-regulate their metabolism, enabling sustainable chemical production. Gene editing tools that could target specific cells, reducing toxic off-target effects. The key to realizing those technological advances, according to UW molecular engineering alumnus Drs. Jason Fontana and David Sparkman-Yager, is RNA. [Read More](#)

Benaroya Research Institute Team Discovers T Cell Based Biomarker and Potential Therapeutic Target for Colon Cancer

Benaroya Research Institute at Virginia Mason (BRI)



Studies in the lab of Dr. Steven Ziegler (pictured) at BRI found that a specific cytokine could serve as a biomarker heralding the development of colon cancer – and holds promise as a therapeutic target to fight colorectal cancers. His team found they could inhibit colorectal tumors by blocking thymic stromal lymphopoietin, which suggests that the cytokine may control the progression of the cancer through the regulation of T cell function. [Read More](#)

After Sprint for COVID-19 Vaccines, Researchers Return to HIV Marathon with Fresh Determination and Knowledge, Launch Clinical Research Registry and Ad Campaign

Fred Hutch



Building on momentum from the highly successful COVID-19 vaccine clinical trials, the HIV Vaccine Trials Network is launching a new HIV awareness campaign and unveiling a first-of-its-kind national registry that will make it easier to learn about and participate in HIV clinical trials. The "Help End HIV" campaign is designed to increase awareness – especially among younger people – that HIV remains a major health issue globally and within the United States. [Read More](#)

Promising Young Scientist Debora Ferede: Compassionate Commitment Toward Underserved Communities

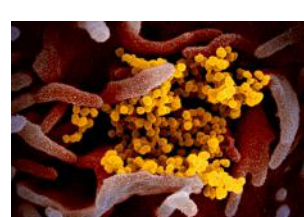
Brotman Baty Institute (BBI)



It's become a cliché: "They are wise beyond their years." Unless you're referring to Debora Ferede (pictured, left). Ferede, 22, is the only undergraduate in the lab of BBI's Dr. Rhea Coler (right) at Seattle Children's. Spend just a few minutes with Ferede and one soon realizes that her "wisdom beyond her years" is grounded in a compassionate commitment to serving others, especially those in underserved communities. [Read More](#)

Sound Pharmaceuticals' NIH Grant for a Novel Oral COVID-19 Treatment Increases to \$4.2M

Sound Pharmaceuticals (SPI)



SPI announced that it has received a \$1.1M supplement to its \$3.1M National Center for Advancing Translational Sciences Award, bringing the total National Institutes of Health (NIH) funding to \$4.2M. SPI is developing ebsele, a new molecular entity with anti-viral and anti-inflammatory activity, and enrolling two Phase II clinical trials for the treatment of hospitalized COVID-19 patients. [Read More](#)

Neoleukin Therapeutics Announces First Patient Treated in Combination Arm of Phase I Trial Evaluating NL-201 in Combination with KEYTRUDA® (Pembrolizumab)

BioSpace



Neoleukin, a biopharmaceutical company utilizing sophisticated computational methods to design *de novo* protein therapeutics, announced treatment of the first patient in a combination arm evaluating the safety and efficacy of Neoleukin's NL-201 in combination with Merck's anti-PD-1 therapy KEYTRUDA®, as part of Neoleukin's ongoing Phase I trial in patients with relapsed or refractory solid tumors. [Read More](#)

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Upcoming Events in Seattle

May 24 10:00 AM	NanoString Life Science Career Fair Hosted by Biotech Networks Online
May 25 12:00 PM	The Promise of Precision Oncology Online
June 1 12:00 PM	LSWI Grant Writing Workshop: Demystifying SBIR/STTR Funding Part 1 Online
June 7 4:00 PM	Research Roundtable with Chris Lausted and Dr. Danielle Vermaak Online
June 8 10:30 AM	Distinguished Seminar: Paul Cisek Online

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Science Jobs in Seattle
Principle Product Quality Lead, Early Development, Cell Therapy
 Bristol Myers Squibb

Senior Research Scientist, Inflammation
 Gilead Sciences

Clinical Research Quality & Compliance Specialist I-II
 Benaroya Research Institute at Virginia Mason

Research Scientist I, EX
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