

Publications of the Week
Functional SARS-CoV-2-Specific Immune Memory Persists after Mild COVID-19

First Author: Lauren Rodda | Senior Author: Marion Pepper *(pictured)*
 Cell | UW, Benaroya Research Institute at Virginia Mason and Seattle Children's Hospital



Researchers performed a longitudinal assessment of individuals recovered from mild COVID-19 to determine whether they develop and sustain multifaceted SARS-CoV-2-specific immunological memory. Recovered individuals developed SARS-CoV-2-specific immunoglobulin antibodies, neutralizing plasma, and memory B and memory T cells that persisted for at least 3 months. [Abstract](#) | [Press Release](#)

Type 1 Interferon-Dependent Repression of NLR4 and iPLA2 Licenses Down-Regulation of *Salmonella flagellin* Inside Macrophages

First Author: Ajay Suresh Akhade *(pictured, left)* | Senior Author: Naeha Subramanian *(pictured, right)*
 PNAS | Institute for Systems Biology, UW



The authors report an unexpected role of the NLR4 inflammasome in promoting expression of its microbial ligand, flagellin, and identified a role for type 1 IFN signaling in switching of *Salmonella* to a flagellin-low phenotype. Early in infection, activation of NLR4 by flagellin initiated pyroptosis and concomitant release of lysophospholipids which in turn enhanced expression of flagellin by *Salmonella* thereby amplifying its ability to elicit cell death. [Abstract](#) | [Press Release](#)

AMD3100 Re-Dosing Fails to Repeatedly Mobilize Hematopoietic Stem Cells in the Non-Human Primate and Humanized Mouse

First Author: Clare Samuelson | Senior Author: Hans-Peter Kiem *(pictured)*
 Experimental Hematology | Fred Hutch



The authors investigated the mobilization efficacy of repeated AMD3100 dosages in non-human primate and humanized mouse models. In non-human primates they demonstrated effective mobilization after the first AMD3100 administration but significantly poorer response in CD34⁺ and hematopoietic stem cell-enriched CD90⁺ cells with subsequent doses of the drug. [Abstract](#)

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Awards
Dr. Stanley Riddell Awarded Burke O'Reilly Family Endowed Chair in Immunotherapy

Fred Hutch



Fred Hutch immunologist Dr. Stanley Riddell *(pictured)* has been named as the first recipient of the Burke O'Reilly Family Chair in Immunotherapy. Riddell has been a pioneer in the development of CAR T-cell therapy, which evolved out of early work in bone marrow transplantation that showed that transplant patients benefited from donor cells attacking remaining cancer cells — the so-called graft-vs.-leukemia effect. [Read More](#)

Vincenzo Cirulli Elected to the Board of Directors of the Diabetes Research Connection

Institute for Stem Cell & Regenerative Medicine (ISCRM)



ISCRM faculty member Dr. Vincenzo Cirulli *(pictured)* has been elected to the Board of Directors of the Diabetes Research Connection, a non-profit organization devoted to support early-career scientists to perform innovative research designed to prevent and cure type 1 diabetes. Over the past three years, the Diabetes Research Connection has funded more than 30 young scientists with awards ranging from \$50K to \$75K. [Read More](#)

Biostatistician Dr. Deborah Donnell Named AAAS Fellow

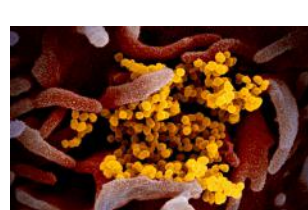
Fred Hutch



Fred Hutch biostatistician Dr. Deborah Donnell *(pictured)* has been elected a Fellow by the American Association for the Advancement of Science (AAAS). She has played a lead role in several landmark studies showing that antiviral drugs taken prophylactically successfully lowered the risk of HIV infection. "I think it's always lovely to have the recognition," said Donnell, who has more than 25 years of experience in the design of HIV prevention trials. [Read More](#)

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Local News
COVID or Flu? Bothell Firm Makes Test that Can Tell the Difference

Puget Sound Business Journal



ElitechGroup MDx submitted a coronavirus test manufactured at its facility in Bothell to the Food and Drug Administration for emergency use authorization. ElitechGroup's product is a four-in-one diagnostic test that detects and differentiates the coronavirus from other common flus, such as influenza A and B and respiratory syncytial virus. [Read More](#)

Bile Acids Provide More Evidence of the Gut Microbiome's Effect on Alzheimer's Disease

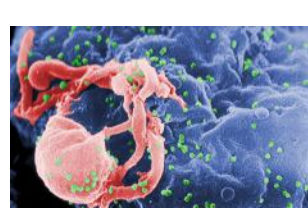
Institute for Systems Biology (ISB)



ISB researchers and their collaborators, led by Dr. Priyanka Baloni *(pictured)*, are looking beyond a one-drug, one-solution approach that has thus far failed in the treatment of Alzheimer's disease. Instead, they are focusing on other promising research avenues such as the possible role of the gut microbiome in Alzheimer's disease. [Read More](#)

NIH Announces Restructured HIV Clinical Trials Networks, Including Seattle's HVTN and HPTN

TrialSite News



The National Institute of Allergy and Infectious Diseases, part of the National Institutes of Health (NIH), announced the clinical investigators and institutions that will lead four NIH HIV clinical trials networks over the next seven years to conduct the innovative, efficient clinical research needed to accelerate progress against the HIV pandemic. Seattle's HIV Vaccine Trials Network (HVTN) and HIV Prevention Trials Network (HPTN) will lead two of the four. [Read More](#)

One Step Closer to Preventing Celiac

Benaroya Research Institute (BRI) at Virginia Mason



Celiac disease, like all autoimmune diseases, has no cure. People with the condition must adhere to a strict gluten-free diet or face symptoms like nausea, vomiting, ulcers and intestinal damage. BRI Biostatistician Tee Bahnson *(pictured)* recently published research that may have uncovered what many families with celiac have been hoping for: A way to prevent the condition in children. [Read More](#)

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Upcoming Events in Seattle

- December 5 - 8
8:00 AM **The 62nd American Society of Hematology Annual Meeting and Exposition**
Online
- December 5 - 9
8:00 AM **Cell Bio 2020**
Online
- December 8
10:00 AM **The Future of Healthcare**
Online
- December 10
8:00 AM **Health Care Leadership Awards**
Online
- December 15 - 16
8:00 AM **Allen Institute Showcase Symposium 2020**
Online

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Science Jobs in Seattle

- Postdoctoral Research Associate, T Cells**
Benaroya Research Institute at Virginia Mason
- Cell Scientist, Stem Cells and Gene Editing**
Allen Institute for Cell Science
- Senior QC Specialist, Microbiology**
Bristol Myers Squibb
- Senior Scientist, Translational Medicine**
Chinook Therapeutics
- Senior Research Associate, Immunology**
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