

Publications of the Week
Genome-Wide Protein–DNA Interaction Site Mapping in Bacteria Using a Double-Stranded DNA-Specific Cytosine Deaminase

 First Author: Larry Gallagher | Senior Author: Joseph Mougous *(pictured)*
 Nature Microbiology | Howard Hughes Medical Institute and UW


DNA–protein interactions are central to fundamental cellular processes, yet widely implemented technologies for measuring these interactions on a genome scale in bacteria are laborious and capture only a snapshot of binding events. The authors devised a facile method for mapping DNA–protein interaction sites *in vivo* using the double-stranded DNA-specific cytosine deaminase toxin DddA. [Abstract](#)

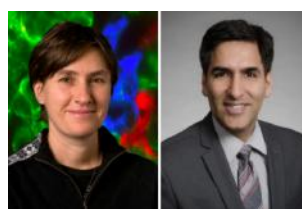
TNF- α /IFN- γ Synergy Amplifies Senescence-Associated Inflammation and SARS-CoV-2 Receptor Expression via Hyper-Activated JAK/STAT1

 First Author: Renuka Kandhaya-Pillai | Senior Author: Junko Oshima *(pictured)*
 Aging Cell | UW


The pathogenesis of COVID-19-related cytokine storm, tissue damage, and fibrosis may be interconnected with fundamental aging processes, including dysregulated immune responses and cellular senescence. The authors examined effects of key cytokines linked to cellular senescence on expression of SARS-CoV-2 viral entry receptors. [Abstract](#)

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Awards
Laura Crisa and Farid Moussavi-Harami Receive Tietze Awards

Institute for Stem Cell & Regenerative Medicine (ISCRM)



ISCRM faculty members Dr. Laura Crisa *(pictured, left)*, Associate Professor, Medicine/ Metabolism, Endocrinology & Nutrition, and Dr. Farid Moussavi-Harami *(right)*, Assistant Professor, Medicine/Cardiology, have received prestigious awards from the John H. Tietze Foundation Trust that will help fuel promising research underway in their labs. [Read More](#)

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Local News
Digging Deeper into the Gut Microbiome

Nature Computational Science



Dr. Sean Gibbons *(pictured)*, Assistant Professor at the Institute for Systems Biology and a Washington Research Foundation Distinguished Investigator, discusses with *Nature Computational Science* how he uses computational science to gain insights into the gut microbiome and to address the major challenges of this field, as well as his advice to young LGBTQIA+ scientists. [Read More](#)

Northwest Study to Assess COVID Vaccine Effectiveness

Seattle Children's



Pacific Northwest researchers will soon begin enrolling 3,500 children and adults to participate in a study to assess how well COVID-19 vaccines protect against infection in the community. The project, called the CASCADIA study, is being jointly led by UW Medicine and the Kaiser Permanente Center for Health Research in Portland, Oregon. The study is funded by the US Centers for Disease Control and Prevention. [Read More](#)

Seattle Biotech Kineta Will Go Public in Deal with Neurosciences Company Yumanity Therapeutics

GeekWire



Seattle biotech company Kineta is going public through a merger with Yumanity Therapeutics, a neurosciences company based in Boston. The merged company will be called Kineta and will be led by the current Kineta management team, including Kineta CEO Dr. Shawn Iadonato and President Craig Philips. “Kineta has a goal of entering one new immuno-oncology product focused on the key mechanisms of cancer immune resistance to the clinic each year,” said Dr. Iadonato. [Read More](#)

Two-Step QS-21 Purification Simplifies Process for Greater Use

Genetic Engineering & Biotechnology News



The natural molecular vaccine adjuvant QS-21 is in increasing demand for several approved vaccines, including shingles, malaria, and — outside the United States — COVID-19. Purification, however, has been challenging. Now, scientists at the Access to Advanced Health Institute say they have developed a simple and efficient method that produces high yields of QS-21 at more than 97% purity under GMP manufacturing conditions. [Read More](#)

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Upcoming Events in Seattle

June 16-17 8:00 AM	2022 Annual Lung Cancer SPORE Workshop Online
June 18 8:00 AM	The 9th Seattle Patient Conference Fred Hutchinson Cancer Research Center
June 21 12:00 PM	Public Art Unveiling Ceremony Fred Hutchinson Campus
Juen 26 8:30 AM	Defeat Multiple Myeloma 5K Magnuson Park
June 29-30 5:00 PM	East West Life Science Summit 2022 Conference Center

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Fred Hutch

Research Scientist, Medicinal Chemistry

Gilead Sciences

Clinical Scientist, Cell Therapy

Bristol Myers Squibb

Postdoctoral Fellow, iPS Cells

Seattle Children's

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