

Publications of the Week
Tumors Overcome the Action of the Wasting Factor Impl2 by Locally Elevating Wnt/Wingless

 First Author: Jae Lee (pictured, lower right) | Senior Author: Young Kwon (outer right)
 PNAS | UW


If tumors were to be affected by the wasting factors associated with atrophy and the degeneration of host tissues, mechanisms allowing tumors to evade the adverse effects of the wasting factors must exist, and impairing such mechanisms may attenuate tumors. The authors use *Drosophila* midgut tumor models to show that tumors up-regulate Wingless to oppose the growth-impeding effects caused by the wasting factor, Impl2 (insulin-like growth factor binding protein-related protein). [Profile](#) | [Abstract](#)

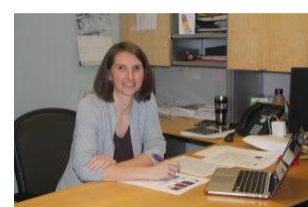
Selective Inhibition of Phosphodiesterase 7 Enzymes Reduces Motivation for Nicotine Use through Modulation of Mesolimbic Dopaminergic Transmission

 First Author: Roberto Cicciocioppo | Senior Author: George Gaitanaris (pictured)
 Journal of Neuroscience | Omers


The authors examined the notion of re-equilibrating dopaminergic transmission by inhibiting phosphodiesterase 7, an intracellular enzyme highly expressed in the corticomesolimbic circuitry and responsible for the degradation of cyclic adenosine monophosphate, the main second messenger modulated by dopamine receptor activation. [Abstract](#)

[View All Publications](#)
Awards
New Investigator Award for Dr. Julie Mathieu Funds Collaborative Cancer Research

Institute for Stem Cell & Regenerative Medicine



The research Dr. Julie Mathieu (pictured) is conducting is funded in part by a New Investigator Award through the Cancer Center Support Grant program administered by the Fred Hutch/UW Cancer Consortium. This support is allowing Dr. Mathieu to design new activators of TRAIL receptors and to assess their functionality using tumor-on-chip technology. [Read More](#)

Dr. Sarah Steinkruger Wins 2021 Beeson Award

UW Department of Medicine



Dr. Sarah Steinkruger (pictured), a Clinical Instructor in the Division of General Internal Medicine, is the recipient of the 37th annual Paul B. Beeson Award. Dr. Steinkruger was chosen by the medicine residents in recognition of outstanding clinical teaching and for exemplifying scholarship, humility, compassion, and integrity. [Read More](#)

Kathleen Abadie Receives 2021 Fulbright to Study Immunotherapy in Israel

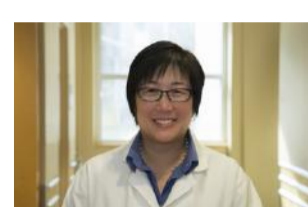
UW Medicine



Kathleen Abadie (pictured), a UW Bioengineering Ph.D. student, has received a Fulbright fellowship to advance her research in immune cell behavior and immunotherapy. She will spend the 2021-22 academic year working in the lab of Professor Ido Amit at the Weizmann Institute of Science in Rehovot, Israel. [Read More](#)

Drs. Lisa Chew and John Lynch Are 2021 David B. Thorud Leadership Award Recipients

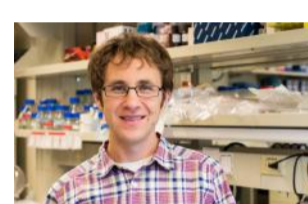
UW Newsroom



Congratulations to Drs. Lisa Chew (pictured) and John Lynch, who have received 2021 Thorud Leadership Awards. Recognizing outstanding leadership since 2006, the Thorud Leadership Award is the highest leadership honor at UW. In a year of extraordinary challenges, the awards this year recognize the skilled leaders who have helped navigate the uncertainty of 2020. [Read More](#)

[View All Featured Awards](#)
Local News
Understanding the Origins of SARS-CoV-2

Fred Hutch



Dr. Jesse Bloom (pictured) has become one of the leading scientific voices calling for a more thorough investigation of SARS-CoV-2's origins. Knowing how this pandemic began can help with thinking about how science can best mitigate the risk of future pandemics. Before SARS-CoV-2, Dr. Bloom and his team were focused on the evolution of flu viruses. [Read More](#)

Phase Genomics Releases Platform for Discovering New Viruses in Microbiome Samples

BioSpace



Phase Genomics has announced the launch of a new platform aimed at the discovery of viral genomes from complex microbiome samples. The newly released technology will help researchers identify new phages and their bacterial targets in complex environments and will aid in a wide range of new and unique applications in the phage therapy and infectious disease fields. [Read More](#)

Nautilus Biotechnology Appoints Dr. Emma Lundberg to Scientific Advisory Board

BioSpace



Nautilus Biotechnology has announced the appointment of Dr. Emma Lundberg (pictured) to its Scientific Advisory Board. Dr. Lundberg brings more than a decade of experience at the interface of affinity reagents, bioimaging, proteomics, and artificial intelligence. She is currently Professor in Cell Biology Proteomics at KTH Royal Institute of Technology, Sweden, and Director of the Cell Atlas, part of the Human Protein Atlas, an international proteomics and cell mapping project. [Read More](#)

Genetic Switch May Predict Diatom Resilience in Acidified Oceans

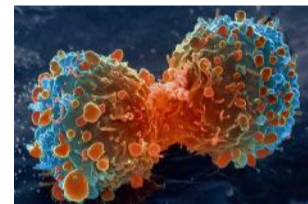
Institute for Systems Biology



Researchers from Dr. Nilin Baliga's (pictured) lab identified a diatom-specific gene that may play a key role in predicting when diatoms might transition from a low/moderate to a high carbon dioxide environment. This potential biomarker fluctuates between day and night expression, but only during ocean acidification conditions. [Read More](#)

NanoString and Parker Institute for Cancer Immunotherapy Collaborate to Optimize Cell Therapies to Treat Cancer

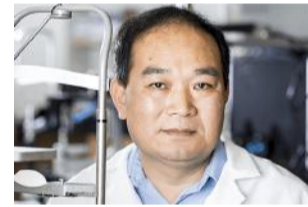
NanoString Technologies



NanoString Technologies and the Parker Institute for Cancer Immunotherapy have announced that they are collaborating on an expansive molecular characterization project for cellular therapies. The collaboration will define the characteristics that make a cell therapy effective, providing a standardized approach to developing CAR-T regimens that may improve patient outcomes across all cancer types, especially solid tumors. [Read More](#)

Smartphone Camera Can Illuminate Bacteria Causing Acne, Dental Plaques

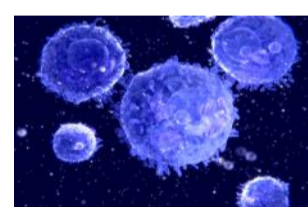
UW News



Dr. Ruikang Wang (pictured) and researchers at the UW have developed a method that uses smartphone-derived images to identify potentially harmful bacteria on skin and in oral cavities. Their approach can visually identify microbes on skin contributing to acne and slow wound healing, as well as bacteria in the oral cavity that can cause gingivitis and dental plaques. [Read More](#)

New Study Published in Nature Provides Further Evidence that COVID-19 Vaccine Induced T-Cell Response Targets Known SARS-CoV-2 Variants of Concern

Adaptive Biotechnologies



Adaptive Biotechnologies has announced that immunoSEQ[®] T-MAP[™] COVID was used in the *Nature* study to measure the T-cell immune response elicited by the Johnson & Johnson COVID-19 vaccine in the context of multiple variants of SARS-CoV-2, including B.1.351 and B.1.1.7. The study provides further evidence that the T-cell response may contribute to protection from COVID-19. [Read More](#)

How RNA Vaccines Can Help Defeat the Next Pandemic

UW Medicine



The unprecedented speed of vaccine development and clinical trials was made possible by RNA vaccines, the same genetic technology that Dr. Deborah Fuller (pictured), a Professor in the UW Department of Microbiology, has devoted her career to. Now, she's working on a next-generation vaccine that she thinks could be even better — and it could have a transformative impact far beyond this pandemic. [Read More](#)

[View All Articles](#) | [Submit an Article](#)
Interesting Articles
Genome Researchers Question Security Provisions in New US Senate Bill

Science



Buried in a 2400-page bill approved by the US Senate to help the United States compete with China is language that is drawing fire from human genome researchers. It would require the National Institutes of Health to develop new security protocols aimed at preventing the misuse of US-funded genomic data by China and other nations. [Read More](#)

[View All Interesting Articles](#)
Upcoming Events in Seattle

June 24 8:00 AM	East West Life Science Summit Online
June 24 5:00 PM	GU Oncology Seminar Series Online
June 24 7:30 PM	Inspired to Reach Higher Online
June 27 8:00 AM	Defeat Multiple Myeloma 5K Online
June 29 1:00 PM	UW Recent Graduate Job Fair Online

[View All Events](#) | [Submit an Event](#)
Science Jobs in Seattle

Postdoctoral Position, Coler Translational Research Group Seattle Children's
Associate Scientist, Raw Material Testing Bristol Myers Squibb
Sr. Research Associate II/Associate Scientist, Oncology Gilead
Research Technician, HIV Research Fred Hutch
Cell Therapy Specialist Seattle Cancer Care Alliance

[View 67 Other Science Jobs](#) | [Submit a Job](#)

Organoid News:
Keep current with the latest in organoid research. [SUBSCRIBE NOW](#)

 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