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Publications of the Week

High-Throughput Identification of Dominant Negative Polypeptides in Yeast

First Author: Michael Dorrity *(pictured)* | Senior Author: Stanley Fields
Nature Methods | UW

Dominant negative polypeptides can inhibit protein function by binding to a wild-type subunit or by titrating a ligand. The authors used high-throughput sequencing of libraries composed of fragments of yeast genes to identify polypeptides that act in a dominant negative manner, in that they are depleted during cell growth. **Profile | Abstract**

A Combined Approach Reveals a Regulatory Mechanism Coupling Src's Kinase Activity, Localization, and Phosphotransferase-Independent Functions

First Author: Ethan Ahler *(pictured)* | Senior Author: Dustin Maly
Molecular Cell | UW

Multiple layers of regulation modulate the activity and localization of protein kinases. However, many details of kinase regulation remain incompletely understood. The authors applied saturation mutagenesis and a chemical genetic method for allosterically modulating kinase global conformation to Src kinase, providing insight into known regulatory mechanisms and revealing a previously undiscovered interaction between Src's SH4 and catalytic domains. **Abstract**

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Spotlight

Dr. Billie Hwang Talks Exosomes and Lung Ischemia Reperfusion

Dr. Billie Hwang *(pictured)* is a Research Scientist heading toward the faculty track under the mentorship of Dr. Michael S. Mulligan in the Department of Surgery at UW. Her research focuses on the role of exosomes in immune modulation, and as biomarkers and a potential immunotherapeutic for a variety of inflammatory processes, including lung ischemia reperfusion injury. **Read More**

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Awards

Dr. Philip Greenberg Elected a Distinguished Fellow of the American Association of Immunologists

Fred Hutch

The American Association of Immunologists (AAI) has selected Fred Hutch's Dr. Philip Greenberg *(pictured)*, a world expert in cancer immunotherapy, as an AAI 2019 Distinguished Fellow. In the lab and the clinic, Greenberg's team works to develop new strategies for genetically reprogramming a patient's T cells to recognize and kill cancers. **Read More**

Drs. Davidson and Galloway Named to American Academy of Arts & Sciences

Fred Hutch

Drs. Nancy E. Davidson *(pictured, left)* and Denise Galloway *(right)*, two of the nation's leading lights in women's health research and scientists at Fred Hutch, have been elected to the American Academy of Arts & Sciences, joining a class of luminaries this year that includes former First Lady Michelle Obama. The common denominator for all members is that their pursuit of excellence is matched with a sense of public purpose. **Read More**

Sharlene Santana and Verónica di Stilio Awarded Fulbright Scholarships

UW Department of Biology

Congratulations to Sharlene Santana *(pictured)* and Verónica di Stilio on winning Fulbright Scholarships! The Fulbright Program, which aims to increase mutual understanding between the people of the United States and the people of other countries, is the flagship international educational exchange program sponsored by the U.S. government. **Read More**

Recognizing Monica Campo-Patino for Applying New Techniques to the Fight against Tuberculosis

Institute of Translational Health Sciences

The UW Latino Center for Health has recognized the Institute of Translational Health Sciences KL2 alumna Monica Campo-Patino *(pictured)* for her achievements in medical research. Dr. Campo-Patino has received this award to honor both her scientific merit and her ability to secure ongoing research and career development funding. **Read More**

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Local News

Soon, Kidneys-On-A-Chip Will Rocket to Space Station

UW Medicine

A kidneys-on-a-chip experiment, designed by scientists at UW Medicine and the UW School of Pharmacy, is being readied at Cape Canaveral, Florida, to fly aboard a SpaceX Dragon C19/Falcon 9 supply shuttle to the International Space Station. At an altitude of 250 miles, the chip technology will be used to study reduced gravity and other space flight conditions on kidney physiology. **Read More**

Pursuing Hair-Restoration Therapy… for Your Inner Ear

UW Medicine

Dr. Olivia Bermingham-McDonogh and her team at the Institute for Stem Cell and Regenerative Medicine want to know whether it is possible to recreate the sensory hair cells that help us stay upright and healthy. By studying how some cells become depleted, the team might identify a population of cells that retains the ability to regenerate – and, crucially, to understand why. **Read More**

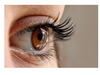
Protein Design Named as an Audacious Project

UW Medicine

The Institute for Protein Design at the UW School of Medicine has received a commitment of an initial $45 million in funding through The Audacious Project, a philanthropic collaborative that surfaces and funds critical projects with the potential to create massive global change. Directed by David Baker *(pictured)*, the institute will use The Audacious Project funds to pursue a variety of endeavours and to expand its team. **Read More**

Brains of Blind People Adapt to Sharpen Sense of Hearing, Study Shows

UW News



Research has shown that people who are born blind or become blind early in life often have a more nuanced sense of hearing, especially when it comes to musical abilities and tracking moving objects in space. Investigators at UW have used functional MRI to identify two differences in the brains of blind individuals that might be responsible for their abilities to make better use of auditory information. **Read More**

Scientist Brings First-Hand Perspective to Fight against Malaria

Seattle Children's Hospital

Growing up in Ghana, Dr. Nana Mimkah endured the unenviable "rite of passage" contracting malaria multiple times as a child. That's why, after Mimkah completed his PhD in Molecular Genetics and Microbiology, he joined the Kappe Lab in 2015. Although he had no experience in parasitology, he wanted to work on malaria — a disease that continues to plague his homeland. **Read More**

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Interesting Articles

How US–China Political Tensions Are Affecting Science

Nature News

Research is becoming increasingly embroiled in ongoing political tensions between the United States and China. Chinese scientists planning to attend conferences or meetings in the United States have told *Nature* that they are experiencing significant delays in obtaining short-term visas. *Nature* investigated the circumstances of the tensions, and the repercussions for scientists and research. **Read More**

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Upcoming Events in Seattle

May 2 8:00 AM	**Exploring Frontiers Seminar: Nature's Blueprint** Allen Institute
May 2 8:00 AM	**Intensive SBIR/STTR Workshop: NIH Focus** Agora Conference Center
May 2 8:00 PM	**Stand-Up Science with Shane Mauss** Laughs Comedy Club
May 10 1:30 PM	**The Seattle Cancer Summit** Fred Hutch – Pelton Auditorium
May 16 5:00 PM	**Life Science Industry Networking Event** Agora Conference Center

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Science Jobs in Seattle

Research Scientist, HIV Cure, Biomarker Sciences
Gilead

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Celgene

Postdoctoral Scientist, Chemistry
Infectious Disease Research Institute

Director, Program Management
Adaptive Biotechnologies

Research Scientist Engineer 3
UW

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