

Publications of the Week

Hexokinase 2 Discerns a Novel Circulating Tumor Cell Population Associated with Poor Prognosis in Lung Cancer Patients

First Author: Liu Yang | Senior Author: Wei Wei (pictured) PNAS | Institute for Systems Biology



Unlike other epithelial cancer types, circulating tumor cells (CTCs) are less frequently detected in the peripheral blood of non-small cell lung cancer (NSCLC) patients using epithelial marker-based detection approaches despite the aggressive nature of NSCLC. Here, the authors demonstrate hexokinase-2 as a metabolic function-associated marker for the detection of CTCs.

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Awards

ADRC Awards for New Ideas in Alzheimer's Research

UW Medicine



The Alzheimer Disease Research Center (ADRC) awards encourage investigators to use ADRC resources to advance the understanding, diagnosis, or treatment of Alzheimer's disease. Dr. Yuliang Wang (pictured) will develop and validate a computational method to identify metabolic interventions that will enhance the maturity and function of stem cell derived microglia, in order to model neuroinflammation in Alzheimer's disease.

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Dr. Oliver Harrison Receives \$2.9 Million NIH R01 Grant to Study How the Immune System Responds to the Microbiome

Benaroya Research Institute at Virginia Mason (BRI)



Dr. Oliver Harrison (pictured) at the BRI has been awarded a \$2.9 million-dollar five-year Research Project Grant (R01) by the National Institute of Allergy and Infectious Diseases of the National Institutes of Health (NIH) to study the mechanisms by which the immune system responds to the body's microbiome, and how these immune responses go awry during inflammatory, immune-mediated and autoimmune disorders.

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Local News

Adaptive Biotechnologies Strengthens Expertise and Diversity of Board of Directors with Leslie Trigg and Dr. Katey Owen

Adaptive Biotechnologies

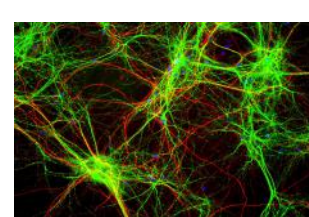


Adaptive Biotechnologies has announced the appointments of Leslie Trigg (pictured) and Dr. Katey Owen to its Board of Directors. Leslie's expertise will be instrumental in the commercial adoption of Adaptive's products into the clinical setting. Katey's expertise in developing late-stage biologics and vaccines at the Gates Foundation and Merck will help guide Adaptive's expansion into new therapeutic areas.

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What's Your Favorite Neuron? We Asked Five Neuroscientists

Allen Institute for Brain Science



Neurons use their unique characteristics to act in one of two broad ways: to excite or inhibit. Excitatory neurons activate other neurons, while inhibitory neurons suppress other neurons' activity. Researchers study how these neurons work in complex circuits to form our brains' cohesive emotions, actions and reactions. The Allen Institute asked five neuroscientists to describe their favorite neuron.

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How Do You Name a Neuron?

Allen Institute for Brain Science



There are likely at least hundreds of different types of neurons in our brains. Many of these specialized cells got their names based on what scientists thought they looked like. "I think everyone wants to get to that part of naming a neuron where you've found a cell type, you've learned all of its features, and now it's time to give it a name," said Dr. Jeremy Miller (pictured).

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Immune Signatures of Severe COVID Disease

Fred Hutch



The identification of immune correlates of protection from severe COVID-19 disease would inform vaccine design and provide the ability to predict which patients will go on to experience severe symptoms. Some SARS-coronavirus studies have resorted to mouse models. Dr. Jessica Graham (pictured) used a mouse model to mimic human genetic diversity and collect pre- and post-infection data.

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Silverback Therapeutics Announces the Appointment of Dr. Maria Koehler to its Board of Directors

Silverback Therapeutics



Silverback Therapeutics has announced the appointment of Dr. Maria Koehler (pictured) to Silverback's Board of Directors. Dr. Koehler joins the Silverback Board of Directors with more than 20 years of experience in the biopharmaceutical industry as a leader in clinical development. Board certified in hematology/oncology, she has experience in both early drug development and bringing new drugs to global markets.

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Urinary Tract Infections Only Rarely Give Rise to Sepsis

UW Medicine



A urinary tract infection is a bacterial or fungal infection along the urinary tract, most commonly in the bladder. The most typical symptom is the frequent urge to pee, as well as the feeling of the bladder not fully emptying. The vast majority of urinary tract infections do not develop into full-blown sepsis. Dr. Suzette Sutherland (pictured) said. But urosepsis can happen, especially among older patients or those with compromised immune systems.

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UW Profile: Donovan Jackson

UW



Donavan Jackson (pictured) shared how he is pursuing his doctorate not just for himself, but to open doors for fellow Native American students in natural sciences. As Donovan Jackson pursues his doctorate in biology at UW, he's still thinking about the high school students he used to teach science to in New Mexico. He keeps those students in his thoughts because he doesn't want to pursue his doctorate just for himself.

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Achieve Life Sciences Announces Appointment of Drs. Bridget Martell and Cindy Jacobs to Board of Directors

Achieve Life Sciences



Achieve Life Sciences has announced the appointment of Drs. Bridget Martell (pictured) and Cindy Jacobs to the company's Board of Directors. Dr. Martell brings an impressive and diverse background of scientific, clinical, and leadership experience to the team. Dr. Jacobs will lead the regulatory and clinical development efforts for cytisinciline.

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Interesting Articles

What's in the Huge Pandemic Relief Bill for Science?

Science



A massive \$1.9 trillion pandemic relief bill now on its way to President Joe Biden's desk will deliver cash to a wide array of groups — including the scientific community. The bill is designed primarily to address the economic damage caused by the COVID-19 pandemic and accelerate the distribution of vaccines and treatments that have proved effective against the pandemic coronavirus.

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- March 23 12:00 PM **Science Says** Online
- March 24 12:00 PM **What Really Happens in an NIH Study Review** Online
- March 25 8:00 AM **Health Care of the Future** Online
- March 30 8:00 AM **Life Science Innovation Northwest** Online
- April 5 8:00 AM **Deep Mutational Scanning Symposium** Online

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