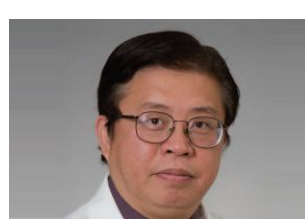


Publications of the Week

Genomic and Functional Characterization of a Mucosal Symbiont Involved in Early-Stage Colorectal Cancer

 First Author: Melissa Kordah | Senior Author: William DePaolo (pictured)
 Cell Host & Microbe | Center for Microbiome Science & Therapeutics, Fred Hutch, and UW

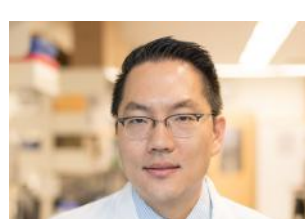
 Growing evidence for the role of the gut microbiota in the initiation of colorectal cancer has sparked interest in approaches that target these microorganisms. However, little is known about the composition and role of the microbiota associated with precancerous polyps. The authors found distinct microbial signatures between patients with and without polyps and between polyp subtypes using sequencing and culturing techniques. [Abstract](#) | [Press Release](#)
Interventional Real-Time Optical Imaging Guidance for Complete Tumor Ablation

 First Author: Xuefeng Kan | Senior Author: Xiaoming Yang (pictured)
 PNAS | UW

 The authors present an interventional optical imaging-guided oncologic technique. This interventional oncologic technique can differentiate, *in vivo*, the three definitive zones of tumor and tumor margin as well as normal surrounding liver, which enables differentiation of residual viable tumors from ablated nonviable tumors and thereby premit the intraprocedural real-time guidance for complete tumor eradication during a single interventional ablation session. [Abstract](#)
[View All Publications](#)

Awards

Building Better Lab Models of Human Tumors

Fred Hutch


 Dr. John Lee (pictured) garnered a National Institutes of Health New Innovator Award to fund his breakthrough approach that promises to help make scientific tumor models better capture the complex biology of tumors that arise naturally. The grant, \$1.5 million over five years, will allow his team to create a set of prostate cancer models that better mimic existing subsets of human tumors and probe different steps governing prostate cancer progression. [Read More](#)
NIH Awards \$10 Million to Study Concussions in Schoolkids

UW Medicine


 The National Institute of Neurological Disorders and Stroke has awarded a \$10 million grant to the Four Corners Youth Consortium, a group of organizations researching concussions in children ages 11 to 17. The five-year study will be led by researchers including Dr. Frederick Rivara (pictured) of Seattle Children's Center for Child Health, Behavior and Development and UW Medicine's Department of Pediatrics. [Read More](#)
Life Science Washington Institute Wins Fourth SBA Growth Accelerator Fund Grant

Life Science Washington


 Life Science Washington Institute (LSW) has been awarded the US Small Business Administration (SBA) Growth Accelerator Fund Grant for the fourth time. "As in recent years, we will use this prestigious award to further engage women in our signature mentoring program, the Washington Innovation Network and other LSW Institute services," said Dr. Leslie Alexandro (pictured), Executive Director of the LSW Institute. [Read More](#)
Lumen Bioscience Awarded Federal Funding to Advance Covid-19 Antibody Cocktail through Phase II Clinical Evaluation

Lumen Bioscience


 Lumen Bioscience announced new development funding from the US Army for its Covid-19 monoclonal antibody drug cocktail. "Everyone knows about the respiratory symptoms of Covid-19, but it's less well appreciated among non-specialists that a majority of patients also endure GI-related issues, which can be quite severe," said Brian Finrow (pictured), Lumen's Co-Founder and CEO. [Read More](#)
[View All Awards](#)

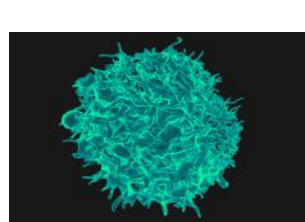
Local News

An Ultra Detailed Map of the Brain Region That Controls Movement, from Mice to Monkeys to Humans

Allen Institute


 For the first time, the neurons and other cells involved in a region of the human, mouse and monkey brains that controls movement have been mapped in exquisite detail. Its creators, a large consortium of neuroscientists brought together by the National Institutes of Health's Brain Research Through Advancing Innovative Neurotechnologies[®] Initiative, say this brain atlas will pave the way for mapping the entire mammalian brain. [Read More](#)
Scientists Boost Immune Function in Mice by Mimicking Natural Renewal Processes

Fred Hutch


 The pandemic has put immune function — and how to boost it — at top of mind. Most recommendations for boosting immune responses focus on lifestyle choices, including adequate sleep, a solid exercise program and a well-rounded diet, that can keep our immune health in tip-top shape. But new work from scientists at Fred Hutch raises the possibility that immune-regenerating drugs could someday be in our toolbox. [Read More](#)
Adventures Leading to a Paradigm Shift in Healthcare

Genetic Engineering & Biotechnology News


 Dr. Leroy Hood (pictured), Co-Founder, Professor, and Chief Strategy Officer for the Institute for Systems Biology, discusses advances in sequencing, big data technology, systems biology, and blood analysis that are opening new paths to wellness. He has spent the last three years developing an expanded vision of precision population health, termed Beyond the Human Genome. [Read More](#)
USAID Monitors for Animal Viruses with Pandemic Potential

UW Medicine


 To better identify and prevent future pandemics, UW has become a partner in a five-year global, collaborative agreement with the US Agency for International Development (USAID). The effort will build scientific capacity in partner countries to safely detect and characterize viruses which have the potential to spill over from wildlife and domestic animals to human populations. [Read More](#)
Icosavax Co-Founder and UW Researcher Neil King Talks Vaccine Development in the 'Digital Era'

Neil King


 We are now in the "digital era" of vaccine development, UW researcher Dr. Neil King (pictured) said at the GeekWire Summit. Dr. King talked about how to prevent the next pandemic and also discussed the development of experimental vaccines for COVID-19, flu and other viruses based on research from the UW's Institute for Protein Design, where he is an Assistant Professor. [Read More](#)
Adaptive Biotechnologies Launches Enhanced clonoSEQ[®] Assay Reports for Patients with Chronic Lymphocytic Leukemia, Now Featuring IGHV Mutation Status

Adaptive Biotechnologies


 Adaptive Biotechnologies announced the launch of an enhanced version of its clonoSEQ[®] B cell Clonality report, which will now feature the immunoglobulin heavy chain – V mutation status for patients with chronic lymphocytic leukemia (CLL). clonoSEQ is the first and only *in vitro* diagnostic cleared by the US Food and Drug Administration to detect and monitor minimal residual disease in blood or bone marrow from patients with CLL. [Read More](#)
Nir Barzilai on Health Span, Life Span and the New Science of Longevity

Institute for Systems Biology (ISB)


 Longevity and aging researcher Dr. Nir Barzilai (pictured), author of "Age Later: Health Span, Life Span and the New Science of Longevity," participated in a fireside chat conversation with ISB Co-Founder and Professor Dr. Lee Hood. The two renowned scientists talked about Dr. Barzilai's study of 750 centenarians, how aging research has changed over the years, and what exciting developments are coming. [Read More](#)
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📅 Upcoming Events in Seattle

October 13 9:00 AM	2021 ISB Virtual Microbiome Series Online
October 14 4:00 PM	DeviceConnect: Capturing the Emerging Opportunities in Digital Health Online
October 16 1:00 PM	Odessa Brown Children's Clinic Virtual Town Hall Online
October 18 8:00 AM	Global Oncology Lecture Series – Dr. Satish Gopal Online
October 19 10:00 AM	Open for (Cell) Science: 3D Cell Visualization Tools Online

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🏢 Science Jobs in Seattle

Associate Director, Computer System Assurance Chinook Therapeutics
Cytogenetics Technologist Seattle Cancer Care Alliance
Research Associate III A-Alpha Bio
Faculty Position, Cancer Immunology Fred Hutch
Postdoctoral Research Associate, Mucosal Immunology Bonaroya Research Institute at Virginia Mason

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