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#### Publications of the Week

#### High-Plex Imaging of RNA and Proteins at Subcellular Resolution in Fixed Tissue by Spatial Molecular Imaging

First Author, Shanshan He | Senior Author, Joseph Be Nature Biotechnology | NanoString Technologies



Resolving the spatial distribution of RNA and protein in tissues at subcellular resolution is a challenge in the flatd of and the little. resolution is a challenge in the field of spatial biology. The authors describe spatial molecular imaging, a system that measures RNAs and proteins in intact biological samples at subcellular resolution by performing multiple cycles of nucleic acid hybridization of fluorescent molecular barcodes. Abstract

#### Recurrent but Short-Lived Duplications of Centromeric Proteins in Holocentric Caenorhabditis Species



The authors suggest that confromeric protein duplications occur frequently in Caenorhabditis nematodes, are selectively retained for short evolutionary periods. then degenerate or are lost entirely. They hypothesize that unique challenges associated with holocentricity in Caenorhabditis may lead to this rapid 'revolving door' of kinetochore protein paralogs. Abstract

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#### Awards

#### Moritz Stolla Receives National Blood Foundation Award for Innovative Research



National Blood Foundation Award for Innovative Research from the Association for the Advancement of Blood & Biotherapies. This award was established in 2016 to recognize a scientist whose original research resulted in an important contribution to the body of scientific knowledge in transfusion medicine or biotherapies.

## Pediatric Geneticist Earns NIH Early Independence Award



UW Medicine physician and scientist Dr. Danny Miller (pictured) has received a compatitive National Institutes of Health (NiH) Director's Early Independence Award, which provides up to \$1.25 million over five years. Dr. Miller is an Assista Professor of Pediatrics in the Division of Genetic Medicine and of Laboratory Medicine and Pathology at the UNV School of Medicine. Read More

#### Dr. Ruth Etzioni Receives \$7.4M NCI Grant to Assess New Cancer Diagnostics



Dr. Ruth Etzloni (pictured) has received a seven-year Outstanding Investigator Award from the National Cancer Institute (NCI). The award, which comes around \$7.4 million in funding, will allow Dr. Etzioni and her team to build frameworks and tools to evaluate novel cancer diagnostics such as new nuclear imaging modalities and multi-cancer early detection tests, commonly referred to as liquid biopsies Read More

## Merkel Cell Carcinoma Researcher Dr. Nick Salisbury Named Brave Fellow



Dr. Nick Salisbury (pictured) was just named the third recipient to receive the Brave Fellowship at Fred Hutch. Funded by Brooks Running on behalf of the Brave Like Gabe Foundation, the goal of the fellowship is to develop scientific leaders who will advocate for a diverse and inclusive biomedical research workforce focused on

### UW Medicine Honors Jay Shendure as 2022 'Inventor of the Year'



BBI Scientific Director Dr. Jay Shendure (pictured) has been honored by UW Medicine as the 2022 "Inventor of the Year." In announcing the award. UW Medicine noted that Dr. Shendure's research group "ploneered excrise sequent and the seriest applications to gene discovery for Mendelland Boorders and and cell-free DNA diagnostics for cancer and reproductive medicine; massively pair Medicine as the 2022 "Inventor of the Year" in announcing the award, UW Medicine noted that Dr. Shendure's research group "ploneered exome sequencing and its earliest applications to gene discovery for Mendellan disorders and autism, cell-free DNA diagnostics for cancer and reproductive medicine; massively parallel reporter assays, saturation genome editing, whole organism lineage tracing, and massively parallel molecular profiling of single cells," Read More

## NIH Grant Will Support Collaborative Hemophilia Study



A National Institutes of Health (NIH) funded multi-institutional research effort based at UW and led by Dr. Jill Johnsen (pictured) will trace the roots of risk for immune complications in newborns with Hemophilia A starting from the time in the womb. In total, the plan is to follow 50 pairs of mothers who have the gene change that leads to factor VIII deficiency and their babies who have severe Hemophilia A.

# MSBL Receives NIH Grant to Expand DEIA Mentorship



The Musculoskelstal Systems Biology Lab (MSBL) has received a unit of the state of The Musculoskelstal Systems Biology Lab (MSBL) has received a \$431,765 award middle). Jyoti Rai (top. nght), Howard Chansley (bottom, nght), and Joyce Tang (bottom, left). Read More

# Expanding the Search for New Kidney Diseases and Therapeutic Targets



Dr. Jonathan Himmelfarb (pictured) and Dr. Matthias Kretzler are Co-Principal Invastigators for two new awards totaling \$30.8 million from the National institutes of Health's National institute of Diabetes and Digestive and Kidney Diseases for the Kidney Precision Medicine Project (KPMP). The awards will fund the KPMP Central Hub and the Kidney Mapping Atlas Project providing the administrative leadership, data coordination, data integration, and atlas development in KPMP. Road More

Unlocking More Information from Liquid Biopsies



Fred Hutch computational biologist Dr. Gavin Ha (pictured) received a 2022 National Institutes of Health Director's New Innovator Award to fund his work aimed at unlocking new and useful information from cell-free tumor DNA in cancer patients' blood. Dr. Ha is working to enhance the information that scientists and cancer doctors can glean from liquid biopsies to improve cancer diagnosis. treatment selection, and disease monitoring. Read More

#### Local News

## ISB and Seattle Science Foundation Partner to Create Video Series

What are multi-omics? Why does our microbiome matter? What's the difference between genefics and genemics? What is a digital twin? The Institute for Systems Biology (ISB) and Seattle Science Foundation have partnered to create videos answering questions like these and more, showcasing ISB scientists and their work. Read More

# Twinstrand CEO and Co-Founder Steps Down from Seattle Biotech Startup



TwinStrand Biosciences' Co-Founder Dr. Jesse Salk (pictured) has stepped down from the CEO role, according to a statement issued by the Scattle biotech company. Dr. Salk will remain as Chief Scientific Officer and a member of the board. Healthcare industry veteran Chad Brown, a former exec at Nanostring and Olagen, has stepped in as interim CEO. Brown is also a board member at TwinStrand. Read More

## Islet-Homing Engineered T Regs Protect against Type 1 Diabetes



With the advent of T-cell therapies, scientists have been looking to the body's own defense against renegade T effector cells to see if they can prevent or even reverse type 1 diabetes. Researchers from Benaroya Research Institute and Seattle Children's Research Institute have engineered regulatory T cells -- or Tregs, cells that police the immune system if it begins attacking host tissues —
home to the pancreas, where they successfully block diabetes development in mice. Read More

# Vaginal Immune System May Hint at Prime Vaccine Timing



Levels of key immune-signaling molecules in the vagina 'undergo clear and consistent' fluctuations during the menstrual cycle, a UW Medicine-led team raports in a study published in the Journal BNC Medicine. The findings might help researchers better understand the immune system's role in fertility, and guide scientists' efforts to develop vaccines and treatments for infectious disease. Read More

# Study: 'Bionic Pancreas' Improves Type 1 Diabetes Control



A pocket-size wearable device known as a bionic pancreas, which uses nextgeneration technology to automatically deliver insulin, was more effective at maintaining blood glucose levels within normal range than standard-of-care management among people with type 1 diabetes, a new multicenter clinical trial led by Dr. Irl Hirsch /oictured) has found. Read More

### Understanding Adenoma Progression



Colorectal cancer arises from early lasions that are pre-cancerous; these early lesions are color adenomas and serrated sessile lesions. In light of the well characterized clinical natural history of adenomas, researchers, including Drs. leelendu Dey (pictured) and William Grady, plan to study them as early lesions and to determine the mechanisms involved in the formation and progression of early precancerous lesions. Read More

#### Dr. Danny Miller Leads BBI Project Sequencing a Child Within Three Hours of Birth



BBI's Dr. Danny Miller (pictured), in collaboration with other BBI faculty, has used whole-genome sequencing to assess genetic risk of a newtorn by three hours of life, an unprecedented procedure on such a young infant and an important milestone in advancing precision medicine. Prior to the sequencing in July, the quickest a whole human genome had been sequenced and analyzed was eight

## A New Study to Treat Methamphetamine Use Disorder



Dr. Judith Tsul (poctured) is leading the Monthly Injectable Buprenorphine for Methamphetamine Use Disorder study, a multi-site study sponsored by the National Institutes of Health and National Institute on Drug Abuse. This study will investigate the use of Injectable buprenorphine compared to Injectable placebo for the treatment of methamphetamine use disorder among individuals with mild couse of opioids. Read More

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# Upcoming Events in Seattle

October 17 - 20 CytoData 2022

Seattle AWIS: Project Management in STEM October 19

October 20 Washington State Life Science Summit 2022

October 20 Life Sciences Leadership Gala

October 22 8:00 pm PacSci 60th Birthday Party

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Research Scientist

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Scientist/Senior Scientist, Cell Line Engineering

Drug Discovery Data Architect

