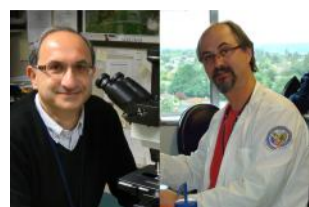


Publications of the Week
Tissue Oxygenation Stabilizes Neovessels and Mitigates Hemorrhages in Human Atherosclerosis-Induced Angiogenesis

 First Author: Alfred Aplin (*pictured, right*) | Senior Author: Roberto Nicotia (*left*)
 Angiogenesis | UW and Seattle Institute for Biomedical and Clinical Research


Progression of atherosclerosis is associated with a maladaptive form of angiogenesis which contributes to intraplaque hemorrhage and plaque disruption. Hypoxia has been implicated in mechanisms of angiogenic neovessel fragility and atherosclerotic plaque destabilization. The authors used *ex vivo* and *in vivo* models to characterize the effect of oxygen on the formation, stability, and tendency to bleed of human plaque-induced neovessels. [Profile](#) | [Abstract](#)

Bladder Cancer Patient-Derived Organoids and Avatars for Personalized Cancer Discovery

 First Author: Yeon Soo Kim (*pictured*) | Senior Authors: Hung-Ming Lam and Andrew Hsieh
 European Urology Focus | Fred Hutch and UW


Prediction of treatment response has attracted growing attention in cancer research to improve clinical outcomes via individualized treatment regimens. Patient-derived organoids and xenografts are novel preclinical model systems that recapitulate the genetic and phenotypic features of parental tumors for this purpose. The authors describe up-to-date organoid and xenograft models of bladder cancer created using patient-derived tissue. [Abstract](#)

[View All Publications](#)
Local News
Modeling a Muscle Disease in 3D

UW Institute for Stem Cell and Regenerative Medicine (ISCRM)



A team of investigators led by first author Samantha Bremner (*pictured, right*) and ISCRM faculty members Drs. David Mack (*left*) and Nate Sniadecki have shown that it is possible to recreate Duchenne muscular dystrophy in a 3D model of engineered heart tissue, making it a reliable preclinical modeling tool to study cardiomyopathy associated with the disease. The research appears in the *Journal of Tissue Engineering*. [Read More](#)

Partnering with Biotechs to Save Lives

Seattle Children's



Biotechnology start-up Gentibio — a Seattle Children's spin-out — announced a multi-year collaboration with Bristol Myers Squibb to develop new engineered regulatory T cell therapies to re-establish immune tolerance and repair tissue in patients living with inflammatory bowel diseases. Current therapies are largely focused on systemic anti-inflammatories and broad immunosuppression, which can cause adverse effects and are not curative. [Read More](#)

BBI Faculty Conversations: Dr. Fuki Hisama

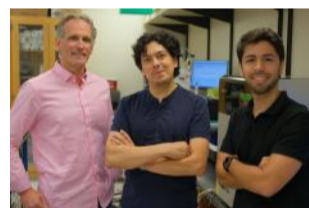
Brotman Baty Institute (BBI)



BBI Member Dr. Fuki Hisama (*pictured*) is a Professor in the Department of Medical Genetics and Medical Director of the UW Genetic Medicine Clinic. BBI sat down with Dr. Hisama to discuss her background and what originally drew her to genetics, a BBI collaboration she has been involved with, and her recently published work with ACMG clinical practice guidelines. [Read More](#)

Biosensor Startup Monod Secures \$25M Seed Financing

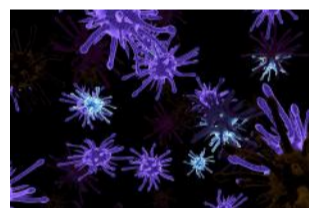
Institute for Protein Design (IPD)



Monod Bio, a life sciences company developing custom diagnostic biosensors that emit light to detect specific biomolecules of interest, announced it has raised a \$25M seed financing round. Monod is using state-of-the-art computational protein design to develop a new class of modular biosensors — built using software from IPD — that emit a bioluminescent signal when the sensor recognizes its target. [Read More](#)

Seattle Startup HDT Bio Lands \$1.8M US Army Grant to Develop Nasal Spray against Viruses

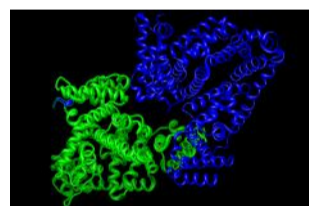
GeekWire



Seattle startup HDT Bio will develop a nasal spray designed to counteract a wide range of respiratory viruses with a nearly \$1.8 million grant from the US Army. HDT Bio's platform involves a proprietary nanoparticle that delivers an attached RNA into cells. Their nasal spray will be based on the same approach and will consist of a nanoparticle attached to a special RNA derived from the Hepatitis C virus. [Read More](#)

Celebrating Our Ten-Year Anniversary

Institute for Protein Design (IPD)



The IPD recently celebrated its 10-year anniversary! Current members, advisors, supporters, and old friends all came together on campus to share memories and forge new friendships. It has been a thrilling ten years, full of discoveries and breakthroughs. They have made great progress in their mission, including by launching their first approved medicine, and they look forward to continuing our work for many years to come. [Read More](#)

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Upcoming Events in Seattle

September 7 8:30 AM	2022 From the Laboratory to Leadership – Virtual Fall Program Online
September 9 9:00 AM	5th Symposium on Cancer Survivorship for Clinicians Bell Harbor International Conference Center
September 10 10:30 AM	Sickle Cell 5K Walk Seward Park
September 21-23 9:00 AM	Neuropixels and OpenScope Workshop Allen Institute
September 25 10:00 AM	Run of Hope 2022 Seward Park

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

- Postdoctoral Research Fellow/Research Associate, Hematology**
Fred Hutch
- Scientist I, Vector Engineering for Parkinson's Disease**
Allen Institute
- Research Associate II, Bench**
Seattle Children's
- Senior Medical Scientist, Hematology**
Gilead Sciences
- Quality Control Analyst I**
Adaptive Biotechnologies

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