

Publications of the Week

Contractile Forces in Platelet Aggregates under Microfluidic Shear Gradients Reflect Platelet Inhibition and Bleeding Risk

First Author: Lucas Ting | Senior Author: Nathan Sliadecki (pictured)
Nature Communications | UW



Viscoelastic approaches can be used to assess platelet-induced clot strengthening, but they require thrombin and fibrin generation and are unable to measure platelet forces directly. The authors report a rapid, microfluidic approach for measuring the contractile force of platelet aggregates for the detection of platelet dysfunction, and may be a useful approach for monitoring both antiplatelet therapy and traumatic bleeding risk. [Profile](#) | [Abstract](#)

Mechanisms of Small Heat Shock Proteins

First Author: Maria Janowska | Senior Author: Rachel Klevit (pictured)
Cold Spring Harbor Perspectives in Biology | UW



Small heat shock proteins (sHSPs) are ATP-independent chaperones that delay formation of harmful protein aggregates. sHSPs' role in protein homeostasis has been appreciated for decades, but their mechanisms of action remain poorly understood. This gap in understanding is largely a consequence of sHSP properties that make them recalcitrant to detailed study. The authors present and highlight current understanding, recent progress, and future challenges. [Abstract](#)

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Awards

Drs. Fred Appelbaum and Phil Greenberg Elected to AACR Academy

Fred Hutch



The American Association for Cancer Research (AACR) has announced its 22 newly elected class of Fellows of the AACR Academy. Among them are two scientists from Fred Hutch: Dr. Fred Appelbaum (pictured, left), Executive Vice President and Deputy Director of the Hutch; and Dr. Philip Greenberg (right), Head of the Program in Immunology. [Read More](#)

Dr. Holly Harris Receives Two Grants to Research Endometriosis

Fred Hutch



Fred Hutch epidemiologist Dr. Holly Harris (pictured) was awarded two grants to study endometriosis, an often painful disorder in which the tissue that lines the inside of the uterus — the endometrium — grows outside the uterus. Harris, who has a strong interest in women's health issues, said endometriosis research has been historically underfunded. [Read More](#)

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Local News

Second Male Birth Control Pill Passes Human Safety Tests

UW Medicine



A new male birth control pill passed tests of safety and tolerability when healthy men used it daily for a month, and it produced hormone responses consistent with effective contraception, according to researchers at two institutions testing the drug. Dr. Stephanie Page, a Professor of Medicine at UW Medicine, jointly led the study with Christina Wang, a Professor of Medicine at UCLA in Los Angeles. [Read More](#)

Earlier Detection for a Deadly Lung Disease

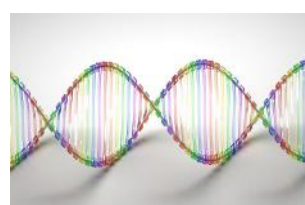
Fred Hutch



Dr. Guang-Shing Cheng (pictured, center) wants to break the cycle of late diagnosis and relentless decline of bronchiolitis obliterans syndrome (BOS), where scar tissue chokes the tiniest airways in the lungs. She's about to launch a new clinical trial that aims to catch BOS before symptoms start — hopefully paving the way for earlier interventions and better patient outcomes. [Read More](#)

With A "Hello," Microsoft and UW Demonstrate First Fully Automated DNA Data Storage

Microsoft



Researchers from Microsoft and UW have demonstrated the first fully automated system to store and retrieve data in manufactured DNA — a key step in moving the technology out of the research lab and into commercial datacenters. In a simple proof-of-concept test, the team successfully encoded the word "hello" in snippets of fabricated DNA and converted it back to digital data using a fully automated end-to-end system. [Read More](#)

Spiral Genetics Re-Launches, Inks Microsoft Deal to Predict Heart Disease with the Human Genome

GeekWire



It's Day 1 again for Seattle-based Spiral Genetics. The decade-old DNA analysis startup has left its parent company, Fabric, and is sparking its re-launch by partnering with Microsoft to analyze the genomes of people with heart disease. The goal of the Microsoft partnership is to train algorithms to predict which people may be at risk of cardiovascular problems later in life. [Read More](#)

New Study May Provide Knowledge for Increased Biofuel Production from Unicellular Algae

Institute for Systems Biology



New research from the Institute for Systems Biology has demonstrated that lipid accumulation and programmed cell death are intertwined within the chlorophyte algae *Chlamydomonas reinhardtii*. The findings suggest that lipid accumulation and programmed cell death are coordinated processes that have evolved for sustaining algal populations in harsh environments. [Read More](#)

ISB's Dr. Qiang Tian Joins Shanghai's National Research Center for Translational Medicine

Institute for Systems Biology



In 2000, Dr. Lee Hood co-founded the Institute for Systems Biology (ISB), where Dr. Qiang Tian (pictured) became the institute's first-ever postdoc. Now, Tian is returning to China for a leadership role with the National Research Center for Translational Medicine, and will remain an affiliate ISB professor. Learn more about his history at ISB, his new role in Shanghai, and his prediction for health care going forward. [Read More](#)

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Interesting Articles

Washington Named Second-Most Innovative State in America

KOMO News



If you're looking to live somewhere where innovation is king, Washington should be a strong candidate. The Evergreen State was recently named as the second-most innovative state in the US by WalletHub, ranking only behind Massachusetts and just ahead of the "other" Washington -- the District of Columbia. Maryland and Colorado rounded out the Top Five. [Read More](#)

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Upcoming Events in Seattle

- April 3 8:30 AM **Introduction to Science Communication Workshop** ATLAS Workbase
- April 3 3:30 PM **Exploring Frontiers Seminar: Christopher Mason** Allen Institute
- April 3 - 6 8:00 AM **Society for Biomaterials Annual Meeting and Exposition** Washington State Convention Center
- April 11 5:00 PM **Life Science Industry Networking Event** Agora Conference Center
- April 12 - 13 8:00 AM **ComSciCon-PNW 2019** Waterfront Activities Center

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Science Jobs in Seattle

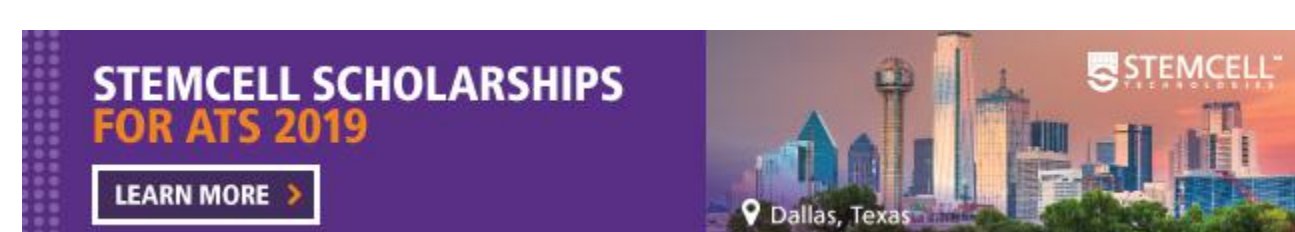
- Director, Drug Safety Operations** Zymeworks
- Research Associate, Medicinal Chemistry** Gilead
- Staff Scientist, Molecular and Behavioral Neuroscience** Fred Hutch
- Research Scientist Engineer 3** UW Department of Genome Sciences
- Research Associate, AAV Process Development** Celgene

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