

Publications of the Week

On the Driver of Blood Circulation Beyond the Heart

First Author: Zheng Li (*pictured*) | Senior Author: Gerald Pollack
PLOS ONE | UW



The heart is widely acknowledged as the unique driver of blood circulation. Researchers discovered a flow-driving mechanism that can operate without imposed pressure, using infrared energy to propel flow. It was theorized that this mechanism could be exploited by blood vessels to propel flow. Researchers verified the existence of this driving mechanism by using a three-day-old chick-embryo model. [Abstract](#) | [Press Release](#)

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Awards

Fred Hutch Announces Eight Recipients of 2023 Dr. Eddie Méndez Scholar Award

Fred Hutch



Fred Hutchinson Cancer Center has announced the recipients of the 2023 Dr. Eddie Méndez Scholar Award, which recognizes early-career underrepresented minority scientists and scientists with disabilities. The eight postdoctoral awardees represent a range of research institutions across the US and include Dr. Martiza Puray-Chavez (*pictured, left*) and Dr. Tigist Tamir (*right*). [Read More](#)

Excellence in Mentorship Awards

UW Medicine



UW Medicine congratulates Dr. Mauricio Dorfman (*pictured, left*), Research Assistant Professor, and Dr. Farah Khan (*right*), Clinical Associate Professor, this year's recipients of the Alan Chait Award for Excellence in Mentorship. This award recognizes faculty members who have demonstrated an outstanding commitment to mentorship, teaching, and professionalism for trainees. [Read More](#)

BRCA-Mutation Researcher Dr. Rosevalentine Bosire Named Brave Fellow

Fred Hutch



Dr. Rosevalentine Bosire (*pictured*), a Postdoctoral Researcher at Fred Hutch, is the fourth recipient of the Brave Fellowship, which honors the memory of a young woman who was similarly driven to make a positive difference in the world. Gabe Grunewald was a professional runner who was diagnosed with a rare salivary gland cancer, adenoid cystic carcinoma, in 2009, and went on to advocate for research into rare cancers. [Read More](#)

Teamwork Makes the Dream Work for People and Bacteria

Research2Reality



As it turns out, collaboration is not only an important part of scientific research, it is also an important trait amongst bacteria. Three scientists, Dr. Bonnie Bassler, Dr. Peter Greenberg (*pictured*), and Dr. Michael R. Silverman, will share a Canada Gairdner Award for their pioneering work in understanding how bacteria communicate via a chemical language. [Read More](#)

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Local News

Scientists Generate First Single-Cell 'Atlas' of Primate Brain to Help Explore Links Between Molecules, Cells, Brain Function, and Disease

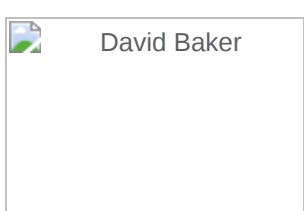
Brotman Baty



A longstanding mystery in science is how the over 100 million individual neurons work together to form a network that forms the basis of who we are — every human thought, emotion, and behavior. Mapping these constellations of cells and discovering their function have been long-standing goals of scores of 21st century molecular cartographers working worldwide as part of the National Institutes of Health's "Brain Initiative Cell Census Network" project. [Read More](#)

New Proteins, Better Batteries: Scientists Are Using AI to Speed Up Discoveries

National Public Radio



In the past, researchers had to systematically test many thousands of possible protein designs to try and find the right one for a particular job. Imagine being given a bucketful of keys to open a door — without knowing which one will actually work. You'd end up "just trying them out one at a time, to see what fits the best," says Dr. David Baker (*pictured*), the Senior Scientist who runs the lab behind a new AI for protein structures. [Read More](#)

Aurion Biotech Announces First Subject Dosed in US Phase 1/2 Clinical Trial

BioSpace



Aurion Biotech, a Seattle biotech whose mission is to restore vision to millions of patients with life-changing regenerative therapies, announced that it has dosed the first subject in its Phase 1/2 US clinical trial. This trial is designed to assess the safety, tolerability, and efficacy of the new drug, AURN001, for the treatment of corneal edema secondary to corneal endothelial dysfunction. [Read More](#)

Study Focus: Immune System's Changes with Preeclampsia

UW Medicine Newsroom



A UW Medicine OB-GYN, Dr. Stephen McCartney (*pictured*), has received a Doris Duke Foundation grant to study preeclampsia, a disorder of pregnancy that is not well understood by clinicians despite many decades of research. The condition causes 70,000 maternal deaths and 500,000 fetal deaths worldwide each year. Dr. McCartney will study how the immune system functions during normal pregnancies and those that involve preeclampsia. [Read More](#)

Breakthrough T Cell Discovery Has Huge Potential for Engineering Custom Immune Responses

Institute for Systems Biology (ISB)



In a recently published paper in *Cell Reports*, ISB researchers made the breakthrough discovery that the genetically encoded T-cell receptor sequence that humans develop in early childhood determines a T cell's function. "That receptor sequence is the major determinant — not signaling proteins such as cytokines or other blood components," said Daniel Chen (*pictured*), first author of the paper. [Read More](#)

Lumen Bioscience Secures DOD Funding for Infection Treatment

Puget Sound Business Journal



Seattle Lumen Bioscience landed \$16.2 million from the US Department of Defence. The funding will go toward trials of Lumen's drug aimed at *Clostridioides difficile* infection. Lumen Bioscience co-founder and CEO Brian Finrow (*pictured*) said that the company is looking for people newly diagnosed with the infection for its trials and hopes to enroll about 375 patients for this study. [Read More](#)

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📅 Upcoming Events in Seattle

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|------------------------|--|
| October 31
12:00 PM | Current Biology Seminar
Fred Hutch |
| November 2
8:30 AM | Value in Cancer Care Summit 2023
Bell Harbor International Conference Center |
| November 2
12:00 PM | Kicking Off a New Team – Team Science Seminar Series
Online |
| November 7
6:30 PM | Painting with Bacteria
SoundBio Lab |
| November 8
4:30 PM | EWIB-Seattle: Fall Social – Wine Tasting & Networking
Eight Bells Winery |

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🏢 Science Jobs in Seattle

- Pauling Fellow, Linus Pauling Distinguished Postdoctoral Fellowship 2024**
Pacific Northwest National Laboratory
- Senior Research Associate**
Cynet Systems
- Research Scientist**
UW
- Research Associate II, Molecular Histology**
Allen Institute
- Assistant/Associate Professor, Prostate Cancer**
Fred Hutchinson Cancer Center

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