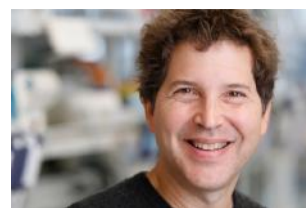


Publications of the Week

Accurate Prediction of Protein Structures and Interactions Using a Three-Track Neural Network

First Author: Minkyung Baek | Senior Author: David Baker (pictured)  
Science | The Institute for Protein Design, Howard Hughes Medical Institute, and UW



The authors explored network architectures incorporating ideas related to DeepMind in CASP14 and obtained the best performance with a three-track network in which information at the 1D sequence level, the 2D distance map level, and the 3D coordinate level is successively transformed and integrated. The network enables rapid generation of accurate protein-protein complex models from sequence information alone. [Abstract](#) | [Press Release](#)

The Interplay between Matrix Deformation and the Coordination of Turning Events Governs Directed Neutrophil Migration in 3D Matrices

First Author: Joshua Franco | Senior Author: Juan C. del Álamo (pictured)  
Science Advances | The Center for Cardiovascular Biology and UW



The authors investigated how chemotaxing neutrophils probe matrices and adjust their migration to collagen concentration (coll) changes by tracking 20,000 cell trajectories and quantifying cell-generated 3D matrix deformations. As [coll] increased, matrix deformations decreased, and neutrophils turned often to circumvent rather than remodel matrix pores. [Full Article](#)

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Awards

Dr. Stanley A. Herring Receives Lifetime Achievement Award

UW Medicine



Dr. Stanley Herring (pictured), Co-Founder and Senior Medical Advisor of the Sports Institute at UW Medicine, is the recipient of the 2021 Dr. Frank Krusen Lifetime Achievement Award by the American Academy of Physical Medicine and Rehabilitation. Dr. Herring, a board-certified physiatrist who has been in practice for nearly four decades, is receiving this award for his numerous local and national contributions to enhancing sports medicine and athlete safety. [Read More](#)

Grant Allows Researchers to Explore Underlying Causes of Mendelian Conditions

Brotman Baty Institute



A \$2.7 million federal grant to the UW Medicine Departments of Genome Sciences and Pediatrics, announced on July 15, will enable Brotman Baty Institute researchers to explore the genetic basis of Mendelian conditions, including sickle cell anemia, hemophilia, and muscular dystrophy. Dr. Debbie Nickerson (pictured), a Professor of Genome Sciences, is one of three Principal Investigators in the project. [Read More](#)

Twenty UW Researchers Elected to the Washington State Academy of Sciences for 2021

UW News



Twenty scientists and engineers at the University of Washington are among the 38 new members elected to the Washington State Academy of Sciences for 2021, according to a July 15 announcement. Dr. Tueng Shen (pictured), Associate Dean of Medical Technology Innovation in the College of Engineering and the School of Medicine, the Graham and Brenda Siddall Endowed Chair in Cornea Research, and Medical Director of the UW Eye Institute was among the elected. [Read More](#)

Announcing the Recipients of the 2021 New Investigator Awards

UW/Fred Hutch Center for AIDS Research



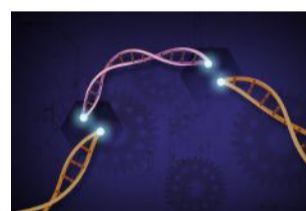
The UW/Fred Hutch Center for AIDS Research announced the 2021 New Investigator Award recipients. Recipients are awarded \$45,000/year for non-interdisciplinary projects or up to \$55,000/year for interdisciplinary projects. Among the recipients is Dr. Donald David Nyangahu (pictured), a postdoctoral research fellow in the Center for Global Infectious Disease Research at Seattle Children's Research Institute. [Read More](#)

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Local News

Seattle-Based Shape Therapeutics Raises \$112M to Develop RNA-Editing and Gene Therapies

GeekWire



Shape Therapeutics, a Seattle preclinical stage biotech company developing RNA editing and gene therapy technologies, has raised \$112 million. The company is developing AAV vectors that deliver genetic material directly to the nervous system or muscle. Its vectors can be used to deliver a variety of genetic payloads, including components of its RNA editing technology. [Read More](#)

Add Fatty Acid to Taste: New Technology Reveals Single Cancer Cells Have Different Appetites for Fatty Acids

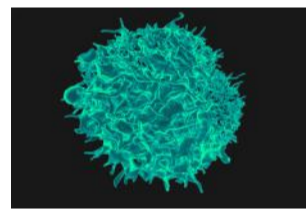
Institute for Systems Biology



A new method developed by the Institute for Systems Biology (ISB) and the University of California, Riverside provides new insights into cancer biology by allowing researchers to show how fatty acids are absorbed by single cells. Dr. Wei Wei's (pictured) lab at ISB and Dr. Min Xue's lab at UC Riverside have been collaborating to develop a series of chemical probes and analytical approaches for quantifying cellular glucose uptake, lactate production, and other cancer-related metabolites. [Read More](#)

Modulus, a Cell Therapy Biotech Incubated at the Allen Institute for AI, Raises \$3.5M

GeekWire



Modulus Therapeutics, a Seattle-based cellular therapy company spun out of the Allen Institute of Artificial Intelligence, announced \$3.5 million in seed funding. The company combines laboratory research with machine learning to engineer immune cells with enhanced anti-tumor powers. Modulus focuses on generating performance-enhancing genetic changes in natural killer cells, an up-and-coming immune cell type in the cell therapy field. [Read More](#)

Seattle Startup Lumen Bioscience to Build Algae Manufacturing Plant in Former Bakery

GeekWire



Seattle-based biotechnology company Lumen Bioscience, which manufactures proteins in algae, announced it will expand its manufacturing operations to a former bakery in the city's Wallingford neighborhood. The company recently announced a joint project with the pharma company Novo Nordisk and an up to \$14.5 million project with CARB-X, a nonprofit supporting the development of new antibacterials. [Read More](#)

Cancer-Busting Broccoli Sprout Pills? It's a Thing.

Fred Hutch



Dr. Thomas Kensler (pictured) has been on a quest to find a way to exploit a powerful cancer-inhibiting process that's triggered when you eat cruciferous vegetables like cauliflower, kale, brussels sprouts, and most especially, broccoli sprouts. He has pursued this work, funded primarily through the National Cancer Institute at John Hopkins, then at the University of Pittsburgh and now, for the three years he's been at the Hutch, in part through Washington state's Andy Hill CARE Fund for distinguished researchers. [Read More](#)

Receptor Life Sciences Announces Initiation of IND-Opening Clinical PK Study of RLS102 for Irritability in Autism Spectrum Disorder

BioSpace



Receptor Life Sciences, a pharmaceutical company developing innovative therapies to address central nervous system disorders, announced the US FDA has accepted its Investigational New Drug application for RLS102. This first-in-class, pure synthetic cannabidiol capsule is being investigated for the treatment of irritability in patients with autism spectrum disorder. [Read More](#)

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Upcoming Events in Seattle

- August 6 8:00 AM **Absher Kids' Cup**  
Washington National Golf Club
- August 10 11:00 AM **Science Says**  
Online
- August 17 5:00 PM **A Celeb-Studded Event to Support Research**  
Paramount Theatre
- August 19 4:30 PM **Life Science Washington Annual Summer Social**  
The Atrium
- August 28 5:30 PM **Focus on Kids Laboratory Guild Beakers and Bubbly Event**  
Online

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Science Jobs in Seattle

- Research Technician I**  
Seattle Children's
- Senior Clinical Laboratory Technologist**  
Adaptive Biotechnologies
- Director, Oncology Research**  
Gilead Sciences
- Senior Scientist, Immuno-Oncology**  
Bristol Myers Squibb
- Postdoctoral Research Fellow, Neuroscience**  
Fred Hutch

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