

Publications of the Week

De Novo Design of a Non-Local β -Sheet Protein with High Stability and Accuracy

First Author: Enrique Marcos | Senior Author: David Baker (*pictured*)
Nature Structural & Molecular Biology | The Institute for Protein Design and UW



Through study of loops connecting unpaired β -strands, the authors have identified a series of structural relationships between loop geometry, side chain directionality and β -strand length that arise from hydrogen bonding and packing constraints on regular β -sheet structures. They use these rules to *de novo* design jellyroll structures with double-stranded β -helices formed by eight antiparallel β -strands.

[Profile](#) | [Abstract](#)

Dormant Tumor Cells, Their Niches and the Influence of Immunity

First Author: Erica Goddard | Senior Author: Cyrus Ghajar (*pictured*)
Nature Cell Biology | Fred Hutchinson Cancer Research Center



Despite increased focus on the clinical relevance of dormant metastatic disease, our understanding of dormant niches, mechanisms underlying emergence from dormancy, and the immune system's role in this phenomenon, remains in its infancy. The authors discuss key work that has shaped our current understanding of these topics. [Abstract](#)

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Awards

ISB's Moritz Lab Lands NIH Grant to Study Lyme Disease

Institute for Systems Biology (ISB)



Dr. Robert Moritz (*pictured*) has received research funding totaling nearly \$525,000 from the National Institute of Allergy and Infectious Diseases of the National Institutes of Health (NIH) to develop assays of acute infection in patient blood to detect the presence of *Borrelia burgdorferi* infection, the causative agent of Lyme disease. The group is at the forefront of the development of whole proteome assay repositories. [Read More](#)

Breast Cancer Research Foundation Funds Eight Fred Hutch/UW Cancer Consortium Scientists

Fred Hutchinson Cancer Research Center



Eight researchers in the Fred Hutchinson/UW Cancer Consortium, including Dr. Thomas Kensler (*pictured*), have received grants totaling nearly \$2 million from the Breast Cancer Research Foundation funding that will continue to fuel their research through 2019. Most of the grants will go toward new therapies for patients with metastatic cancers. [Read More](#)

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Local News

Fred Hutchinson Cancer Research Center Signs Collaboration Deal with Chinese Genomics Giant BGI

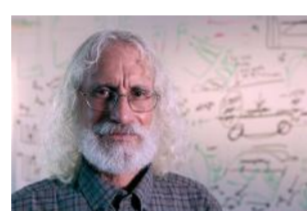
GeekWire



Seattle's Fred Hutchinson Cancer Research Center and BGI, a giant in global genomics sciences, have announced that they are planning to collaborate. The collaboration will benefit from BGI's genomic sequencing technology and Fred Hutch's expertise in cancer research and analytics. The organizations will also jointly explore the possibility of establishing partnerships with hospitals and research institutions in China and Africa. [Read More](#)

Five Questions with a Cancer Immunotherapy Expert

Fred Hutchinson Cancer Research Center



For more than 40 years, Dr. Phil Greenberg (*pictured*) has been working toward a vision: harnessing the power of a patient's immune system to safely and effectively kill their tumors. Today, his latest innovations are offering new hope in some of the toughest cancers. Here, Dr. Greenberg answers five questions about where cancer immunotherapy is now and what is coming on the horizon. [Read More](#)

Hutch Science Featured at World's Premier Cancer Immunotherapy Meeting

Fred Hutchinson Cancer Research Center



Researchers recently gathered at the 33rd annual meeting of the Society for Immunotherapy of Cancer. On the minds of everyone was one question: How can we effectively and safely direct the killing powers of the immune system to cure cancers? That's a question scientists at Fred Hutch have been working to answer for years, and three of them, including Dr. Kristin Anderson (*pictured, right*), were honored for their work on cancer immunotherapies at the meeting. [Read More](#)

NIH Visits UW to Explain Why They Want Your Genome

The Seattle Times



The National Institutes of Health (NIH) is asking for volunteers in a project to sequence the genetic material of a million people living in the U.S., making it possibly the largest research project in human history. Project Director Eric Dishman was at UW recently to discuss the project, which the NIH is calling "All of Us." The project will include participants' electronic health records, as well as behavioral and environmental data. [Read More](#)

The American Heart Association and Allen Institute Announce \$43 Million Commitment in Research Funding to Combat Age-Related Dementia

Allen Institute



The American Heart Association and The Paul G. Allen Frontiers Group has announced awardees of the American Heart Association-Allen Initiative in Brain Health and Cognitive Impairment. These teams will merge research of the brain and the blood vessels to develop new understanding of — and ultimately better preventions and treatments for — age-related brain disorders such as Alzheimer's disease. [Read More](#)

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Interesting Articles

Some Takeaways for Science from the U.S. Elections

Science Magazine



For scientists, the new Democratic majority in the U.S. House of Representatives isn't the only important result from last night's midterm election. Seven of the 19 House candidates with science, engineering, and medical credentials have won seats in the next Congress. All the winners are Democrats, and four of the seven female scientists on the ballot were victorious. [Read More](#)

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Upcoming Events in Seattle

- November 26 6:00 PM **Science on Tap: Jeff Duda**
Ravenna Third Place Bookstore
- November 27 7:00 PM **Science in the City: Humans and Their Leftovers**
Pacific Science Center
- December 1 5:30 PM **Hutch Holiday Gala**
Sheraton Grand Seattle
- December 4 - 5 8:00 AM **Allen Institute Showcase Symposium 2018**
Allen Institute
- December 4 7:00 PM **Science in the City: The Art of Healing**
Pacific Science Center

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Science Jobs in Seattle

- Postdoctoral Research Fellow, Biostatistics**
Fred Hutchinson Cancer Research Center
- Postdoctoral Research Associate**
Benaroya Research Institute at Virginia Mason
- Research Scientist II, Immunotherapy Integration Hub**
Seattle Children's Hospital
- Senior Manager, Flow Cytometry**
Allen Institute
- Senior Scientist, Discovery Biology**
Silverback Therapeutics

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