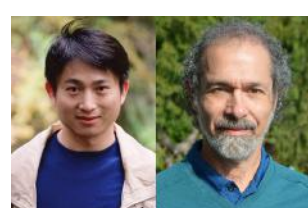
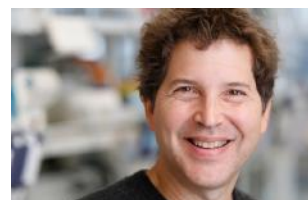


**Publications of the Week**
**Identification of *In Vivo* Hox13-Binding Sites Reveals an Essential Locus Controlling Zebrafish *Brachyury* Expression**

 First Author: Zhi Ye (*pictured, left*) | Senior Author: David Kimelman (*right*)  
 Development | UW


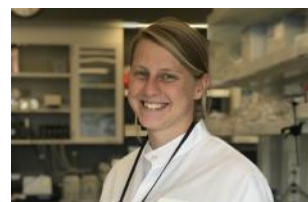
The authors recently showed that Hox13 genes help to support body axis formation and to maintain the autoregulatory loop, although the direct Hox13 target genes were unknown. Here, using a new method for identifying *in vivo* transcription factor-binding sites, they identified more than 500 potential Hox13 target genes in zebrafish. [Profile](#) | [Abstract](#)

**Generation of Ordered Protein Assemblies Using Rigid Three-Body Fusion**

 First Author: Ivan Vulovic | Senior Author: David Baker  
 PNAS | Institute for Protein Design, UW, and Howard Hughes Medical Institute


A long-standing design approach uses genetic fusion to join protein homo-oligomer subunits via  $\alpha$ -helical linkers to form more complex symmetric assemblies, but this method is hampered by linker flexibility and a dearth of geometric solutions. Here, the authors describe a general computational method for rigidly fusing homo-oligomer and spacer building blocks to generate user-defined architectures. [Abstract](#)

**Live-Attenuated RNA Hybrid Vaccine Technology Provides Single-Dose Protection against Chikungunya Virus**

 First Author: Emily Voigt | Senior Author: Neal Van Hoveen  
 Molecular Therapy | Infectious Disease Research Institute


The authors present a live-attenuated RNA hybrid vaccine technology, which uses an RNA vaccine delivery vehicle to deliver *in vitro*-transcribed full-length live-attenuated viral genomes to the site of vaccination. This technology allows ready manufacturing in a cell-free environment, regardless of viral attenuation level, and promises to avoid many safety and manufacturing challenges of traditional live-attenuated vaccines. [Abstract](#)

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**Awards**
**UW Alzheimer's Researchers Receive 2021 Garvey Institute Awards for Technology-Driven Solutions**

UW Medicine



UW Medicine Garvey Institute for Brain Health Solutions is awarding \$1.3 million for technology-driven solutions that aim to improve brain health. Among the 13 winning projects of 2021 are several that involve members of the UW Memory and Brain Wellness Center and UW Alzheimer's Disease Research Center, including Dr. Sean Mooney (*pictured*), and will benefit from the Center resources. [Read More](#)

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**Local News**
**Omeros Announces Preliminary Results from Phase 1 Clinical Trial of OMS906**

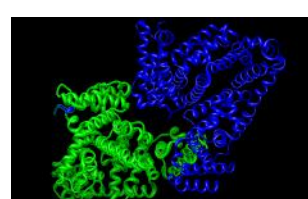
Omeros



Omeros, a commercial-stage biopharmaceutical company committed to discovering, developing and commercializing small-molecule and protein therapeutics for large-market as well as orphan indications targeting inflammation, immunologic diseases and central nervous system disorders, has announced preliminary results from the Phase 1 clinical trial of its MASP-3 inhibitor OMS906. [Read More](#)

**Nautilus Biotechnology Debuts as Publicly Traded Company, Seeks to Deliver on the Untapped Potential of the Human Proteome**

Nautilus



Nautilus, a company pioneering a single-molecule protein analysis platform for quantifying the proteome, has announced the completion of its business combination with Arya Sciences. The combined company, Nautilus, commenced trading shares of its common stock under the ticker symbol "NAUT" on the Nasdaq Global Select Market on June 10, 2021. [Read More](#)

**Faculty Spotlight: Dr. Steven Disharoon**

UW Newsroom



The June faculty spotlight is on Dr. Steven Disharoon (*pictured*). Wanting to pursue a career where he could have involvement in education, quality improvement, and be able to work with some of the best experts in the country on a very complex patient population, Dr. Disharoon joined the UW Department of Medicine as a Clinical Instructor in the Division of General Internal Medicine in 2015. [Read More](#)

**Q&A on Field of Alzheimer's Research**

UW Medicine



UW Medicine was one of the clinical trial sites for aducanumab, a drug approved by the FDA to slow the progression of Alzheimer's disease. UW Medicine checked in with Dr. Thomas Grabowski (*pictured*), the Director of UW Medicine's Alzheimer Disease Research Center, on progress in Alzheimer's research. Dr. Grabowski is a Professor of Neurology at the UW Medicine. [Read More](#)

**Icosavax Initiates Phase 1/2 Trial of COVID-19 VLP Vaccine Candidate**

Icosavax



Icosavax has announced the first subjects have been dosed with IVX-411, a virus-like particle displaying the SARS-CoV-2 receptor-binding domain, in a Phase 1/2 clinical trial. The trial will evaluate different dose levels of adjuvanted and unadjuvanted IVX-411 to help determine if an adjuvant may boost the immune response and potentially reduce the amount of antigen required for protection against SARS-CoV-2. [Read More](#)

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**Interesting Articles**
**Biden's New Science Adviser Shares Views on Foreign Influence, Research Budgets, and More**

Science



How the US might better monitor foreign influence was one of the several topics Dr. Eric Lander (*pictured*) addressed during a 30 minute phone interview that included Biden's recent budget request, government efforts to make research results freely available to all, and his plans for staffing Office of Science and Technology Policy. [Read More](#)

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**Upcoming Events in Seattle**

- |                     |  |
|---------------------|--|
| June 15<br>8:30 AM  | <b>2021 Brain Initiative Investigators Meeting</b><br>Online     |
| June 15<br>9:00 AM  | <b>Science Says</b><br>Online                                    |
| June 17<br>12:00 PM | <b>STEMsational: An Event Supporting ISB Education</b><br>Online |
| June 1<br>5:00 PM   | <b>GU Oncology Seminar Series</b><br>Online                      |
| June 24<br>8:00 AM  | <b>East West Life Science Summit</b><br>Online                   |

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**Science Jobs in Seattle**

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Fred Hutch
- Scientist I, MRI**  
Adaptive Biotechnologies
- Postdoctoral Fellow, Immuno-Oncology and Cell Therapy**  
Bristol Myers Squibb
- Senior Research Associate**  
A-Alpha Bio
- Research Associate, Experimental Immunology**  
Allen Institute for Immunology

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