

Publications of the Week

Mediator Subunit Med15 Dictates the Conserved “Fuzzy” Binding Mechanism of Yeast Transcription Activators Gal4 and Gcn4

 First Author: Lisa Tuttle | Senior Author: Rachel Klevit *(pictured)*
 Nature Communications | Fred Hutch and UW

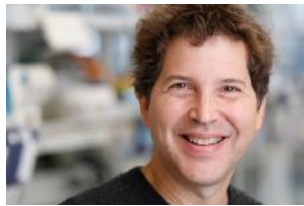

The acidic activation domain (AD) of yeast transcription factor Gal4 plays a dual role in transcription repression and activation through binding to Gal80 repressor and Mediator subunit Med15. The activation function of Gal4 arises from two hydrophobic regions within the 40-residue AD. The authors show by nuclear magnetic resonance that each AD region binds the Mediator subunit Med15 using a “fuzzy” protein interface. [Profile](#) | [Abstract](#)

Functional Enhancer Elements Drive Subclass-Selective Expression from Mouse to Primate Neocortex

 First Author: John Mich *(pictured)* | Senior Author: Boaz Levi
 Cell Reports | Allen Institute for Brain Science and UW


Viral genetic tools that target specific brain cell types could transform basic neuroscience and targeted gene therapy. The authors use comparative open chromatin analysis to identify thousands of human-neocortical-subclass-specific putative enhancers from across the genome to control gene expression in adeno-associated virus vectors. [Profile](#) | [Abstract](#) | [Press Release](#)

Transferrin Receptor Targeting by De Novo Sheet Extension

 First Author: Danny Sahtoe | Senior Author: David Baker *(pictured)*
 PNAS | Institute for Protein Design, UW, and Howard Hughes Medical Institute


The *de novo* design of polar protein–protein interactions is challenging because of the thermodynamic cost of stripping water away from the polar groups. The authors describe a general approach for designing proteins which complement exposed polar backbone groups at the edge of beta sheets with geometrically matched beta strands. [Abstract](#)

[View All Publications](#)

Awards

UW Biology Professors Drs. Jeffrey Riffell, David Perkel Awarded Research Grants from Human Frontier Science Program

UW News



Dr. David Perkel's *(pictured)* research project is titled “Feathers as structures and sensors: Understanding mechanosensing in bird flight.” The project will study how the sensing properties of bird wings and feathers allow them to “feel” their way through the air. The three-year Human Frontier Science Program grant is for \$1,050,000 split among three institutions. [Read More](#)

Dr. Julie Overbaugh Elected to National Academy of Sciences

Fred Hutch



Virologist Dr. Julie Overbaugh *(pictured)*, who studies factors that shape human immunodeficiency virus transmission, was elected to the National Academy of Sciences. “I have worked with an incredible team, both my lab group and my collaborators, and the science recognized by this award reflects our collective work and the collegiality and common purpose of the team” said Dr. Overbaugh. [Read More](#)

Four UW Faculty Named to American Academy of Arts & Sciences

UW News



Four UW faculty members are among the leaders in academia, business, philanthropy, the humanities and the arts elected as 2021 fellows of the American Academy of Arts & Sciences, one of the nation's oldest and most prestigious honorary societies. One of the UW fellows is Dr. P. Dee Boersma *(pictured)*, Professor of Biology. [Read More](#)

[View All Featured Awards](#)

Local News

Allen Institute and BioMarin Team Up to Develop Gene Therapies for Rare Brain Diseases

Allen Institute



The Allen Institute and BioMarin Pharmaceutical announced a collaboration that will use technologies developed at the Allen Institute to create new gene therapies aimed at rare genetic diseases of the central nervous system. BioMarin will receive an exclusive license to each program for research, development and commercialization. [Read More](#)

Study Evaluates Biomarker Criteria for Assessing Alzheimer’s Risk

UW Medicine



Biomarkers could be used to screen people so they might be helped before they develop dementia. Two are Alzheimer's-related proteins, amyloid and tau. Both can be detected in cerebral spinal fluid or by specialized positron emission tomography, or positron emission tomography scans. The third marker, brain atrophy, can be seen with computed tomography or magnetic resonance imaging scans. [Read More](#)

UW/Fred Hutch CFAR Announces New Director and Co-Director

UW/Fred Hutch Center for AIDS Research (CFAR)



Professor Dr. Connie Celum and Associate Professor Dr. Ruanne Barnabas *(pictured)* have been announced as the next Director and Co-Director of CFAR, respectively. Under the leadership of Drs. Barnabas and Celum, CFAR will further its mission to advance the treatment, detection, and prevention of the human immunodeficiency virus and acquired immunodeficiency syndrome. [Read More](#)

[View All Articles](#) | [Submit an Article](#)
Upcoming Events in Seattle

May 4 10:30 AM	Implicit Bias in Health Care and Research Online
May 4 5:00 PM	Webinar Series: The Microbiome and COVID19 Online
May 6 9:30 AM	CFAR Seminar: Dr. Marcus Buggert and Shashidhar Ravishankar Online
May 6 5:00 PM	GU Oncology Seminar Series Online
May 11 7:00 PM	Happy Hour with the Hutch Online

[View All Events](#) | [Submit an Event](#)
Science Jobs in Seattle
Lab Assistant II
Roche

Clinical Research Coordinator II-III
Benaroya Research Institute at Virginia Mason

Research Technician I-II, Berger Lab
Fred Hutch

Clinical Data Associate II
Seagen

Postdoctoral Fellow
Seattle Childrens

[View 57 Other Science Jobs](#) | [Submit a Job](#)

The Immunology Podcast is here
 Find it wherever you get your podcasts



[LISTEN NOW](#)

 Submit your articles and events by reaching out to us at info@scienceinseattle.com.

BROUGHT TO YOU BY


STEMCELL Technologies

Products | Services

STEMCELL Science News

Free Weekly Updates on Your Field

The Stem Cell Podcast

Interviews and Updates on Stem Cell Science