

Publications of the Week
Small-Molecule Sensitization of RecBCD Helicase–Nuclease to a Chi Hotspot-Activated State

 Ahmet Karabulut | Senior Author: Gerald Smith (*pictured, far left*)
 Nucleic Acids Research | Fred Hutch


Bacterial RecBCD helicase–nuclease must coordinate DNA unwinding and cutting to repair broken DNA. At Chi hotspots, RecB's nuclease cuts the 3'-ended strand and loads RecA strand-exchange protein onto it. The authors report that the small molecule NSAC1003, a sulfanyltriazolobenzimidazole, mimics Chi sites by sensitizing RecBCD to cut DNA at a Chi-independent position a certain percent of the DNA substrate's length. [Profile](#) | [Abstract](#)

Dissemination of *Ras*^{V12}-Transformed Cells Requires the Mechanosensitive Channel Piezo

 First Author: Jiao Lee | Senior Author: Young Kwon (*pictured*)
 Nature Communications | UW


Dissemination of transformed cells is a key process in metastasis. Despite its importance, how transformed cells disseminate from an intact tissue and enter the circulation is poorly understood. The authors used a fully developed tissue, *Drosophila* midgut, and describe the morphologically distinct steps and the cellular events occurring over the course of *Ras*^{V12}-transformed cell dissemination. [Abstract](#)

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Awards
NIH Announces \$150,000 Funding for Alzheimer's Research Partnership between UW Medicine and the UW College of Education

UW Medicine



The National Institutes of Health announced \$150,000 in supplemental funding to support a new partnership between UW Medicine and the UW College of Education to research Alzheimer's disease. Dr. Paul Crane (*pictured*), Professor of General Internal Medicine at UW, is the Principal Investigator of the parent grant called "ADNI Psychometrics." [Read More](#)

Meet the FY21 ISCRM Fellows

Institute for Stem Cell & Regenerative Medicine (ISCRM)



The ISCRM Fellows program began in 2017 to provide foundational research experiences for graduate, undergraduate, and postdoctoral students embarking on science careers. Jonathan Chu (*pictured*) is among the FY21 ISCRM Fellows, who were selected from a deep pool of undergraduate students, PhD students, and postdocs making critical contributions to medical research. [Read More](#)

Dr. Oliver Harrison Awarded First NOSTER Science Microbiome Prize for Winning Essay on T Cells and Tissue Repair

Benaroya Research Institute at Virginia Mason



Dr. Oliver "Ollie" Harrison (*pictured*), Principal Investigator at Benaroya Research Institute (BRI) at Virginia Mason, was recently awarded the NOSTER Science Microbiome Prize by Science Magazine, earning the opportunity to have his winning essay featured in Science Magazine. Dr. Harrison's essay was about commensal-specific T cells and tissue repair, based on his work at the National Institutes of Health (NIH) prior to joining the faculty at BRI. [Read More](#)

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Local News
Dissecting Fruit Flies' Response to Life-Extension Diet

UW Medicine



Changes in a few small molecules involved in a cell's metabolism seem to indicate whether a restricted "life extension" diet will actually extend, shorten, or have no effect on lifespan, a study of fruit flies has found. Led by Dr. Daniel Promislow (*pictured*), the findings suggest that analyzing the level of small molecules in cells may help us understand how calorie-restricted diets affect aging, and how genes, environment, and other factors influence an individual's response to calorie restriction. [Read More](#)

Fred Hutch Joins International COVID-19 Vaccine Effort

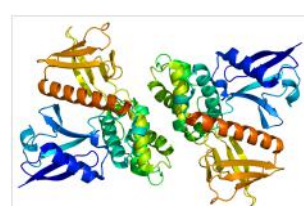
Fred Hutch



Fred Hutch has been named the coordinating center for vaccine clinical trials of the COVID-19 Prevention Network (CoVPN), which is funded by the National Institute of Allergy and Infectious Diseases. A team co-led by Dr. Larry Corey (*pictured*) at Fred Hutch will lead operations across a network of at least five large-scale efficacy trials with over 100 clinical trial sites in the U.S. and abroad. [Read More](#)

AGC Biologics Collaborates with Molecular Partners AG to Develop Anti-COVID-19 DARPin® Program

AGC Biologics via PR Newswire



AGC Biologics is partnering with clinical-stage biotech company Molecular Partners AG to develop a new class of custom-built protein therapeutics known as DARPins®. AGC Biologics and Molecular Partners AG will work together to develop their multi-specific DARPin anti-COVID-19 program, MP0420. Molecular Partners AG plans to initiate clinical studies for this program in the second half of 2020. [Read More](#)

Benaroya Research Institute Awarded \$5.8M from NIH for Immunology-Related COVID Research

GeekWire



As part of the scientific community trying to understand the varied and curious symptoms caused by COVID-19, the Benaroya Research Institute (BRI) at Virginia Mason announced that it has received more than \$5.8 million dollars from the National Institutes of Health (NIH) to fund four studies. Among the recipients are BRI President Dr. Jane Buckner (*pictured, center*), and BRI researcher Dr. Steven Zielger (*left*). [Read More](#)

Fred Hutch Team Establishes a New CLIA Lab for Running Targeted-MS Assays, Including a Novel CLIA-Approved HER2 Test

National Cancer Institute



A major goal for NCI's Cancer Proteomic Tumor Analysis Consortium is to translate proteomic technologies into clinical use to improve treatment and diagnosis of cancer. A team from Fred Hutch has achieved an important milestone in this regard, by establishing a Clinical Laboratory Improvement Amendments (CLIA) - certified laboratory for running targeted proteomic assays based on multiple reaction monitoring mass spectrometry. [Read More](#)

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Upcoming Events in Seattle

July 21 - 23 8:00 AM	Organization for Computational Neurosciences (OCNS) 2020 Online
July 21 9:00 AM	WIB-National Webinar: Growing Your Career and Personal Brand in Life Sciences and Biotech Online
July 22 11:00 AM	UW Immunology Research Presents: Parasite Infection, Vaccinations and Allergies Online
July 23 4:00 PM	GeekWire Awards Online
July 29 6:00 PM	PacSci Happy Hour: Virtual Trivia Online

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Science Jobs in Seattle

- Research Scientist IV, Clinical Immunology**
Seattle Children's
- Scientist III, Epigenetics**
Allen Institute for Brain Science
- Scientist/Senior Scientist, Formulation and Drug Product Sciences**
Seattle Genetics
- Scientist/Senior Scientist, Analytical Development**
Zymeworks
- Associate Scientist, Process Development - Gene Edited Platform**
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