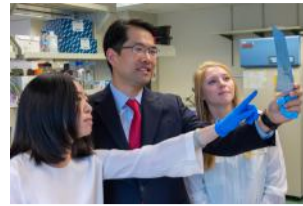


Publications of the Week

The Androgen Receptor Regulates a Druggable Translational Regulon in Advanced Prostate Cancer

First Authors: Yuzhen Liu (*pictured, left*) and Jessie Horn (*right*) | Senior Author: Andrew Hsieh (*center*)
 Science Translational Medicine | Fred Hutch and UW



The authors demonstrated that the androgen receptor (AR) uses translation machinery to shape the cellular proteome. They showed that AR is a negative regulator of protein synthesis and identified an unexpected relationship between AR and the process of translation initiation *in vivo*. This was mediated through direct transcriptional control of the translation inhibitor 4EBP1. [Profile](#) | [Abstract](#)

Therapeutically Relevant Engraftment of a CRISPR-Cas9–Edited HSC-Enriched Population with HbF Reactivation in Nonhuman Primates

First Authors: Olivier Humbert (*pictured*) and Stefan Radtke | Senior Author: Hans-Peter Kiem
 Science Translational Medicine | Fred Hutch, Seattle Children's Research Institute and UW



Reactivation of fetal hemoglobin (HbF) is being pursued as a treatment strategy for hemoglobinopathies. The authors evaluated the therapeutic potential of hematopoietic stem and progenitor cells edited with the CRISPR-Cas9 nuclease platform to recapitulate naturally occurring mutations identified in individuals who express increased amounts of HbF, a condition known as hereditary persistence of HbF. [Profile](#) | [Abstract](#)

Epicardial Cells Derived from Human Embryonic Stem Cells Augment Cardiomyocyte-Driven Heart Regeneration

First Author: Johannes Bargehr | Senior Author: Charles Murry (*pictured*)
 Nature Biotechnology | Institute for Stem Cell and Regenerative Medicine and UW



The authors tested the ability of human embryonic stem cell (hESC)-derived epicardium to augment the structure and function of engineered heart tissue *in vitro* and to improve efficacy of hESC-cardiomyocyte grafts in infarcted athymic rat hearts. Cotransplantation of hESC-derived epicardial cells and cardiomyocytes doubled graft cardiomyocyte proliferation rates *in vivo*, and simultaneously augmenting graft and host vascularization. [Profile](#) | [Abstract](#)

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Awards

Two Early-Career Fred Hutch Scientists Receive Prestigious Fellowships for Prostate Cancer Research

Fred Hutch



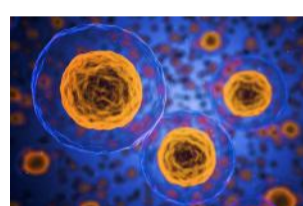
Two early-career scientists at Fred Hutch have received prestigious grants to further their prostate cancer research. Alexandra Corella (*pictured*), a Graduate Research Assistant, has won a \$25,000, one-year fellowship from the Ford Foundation Fellowship Programs. Dr. Sander Frank (*pictured*), a Postdoctoral Research Fellow, has received a three-year training fellowship of more than \$210,000 from the National Institutes of Health. [Read More](#)

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Local News

A New Clue to How Life Originated

The Atlantic



When Caitlin Cornell looked down her microscope, she saw large bright spots against a black background. They resembled miniature suns, blazing against the backdrop of space. And when Cornell showed the spots to her supervisor, Sarah Keller, a chemist at UW, "we got really excited," she recalled. "It was a bit of an 'Aha!' moment." Those spots, she realized, might help address a long-standing puzzle about the origin of life itself. [Read More](#)

'Community Coming Together': Obliterate Raises More than \$2.5M for Cancer Research

Fred Hutch



An early-morning downpour soaked spandex but did not dampen the mood at the finish line of Saturday's Obliterate, the annual fundraiser for science at Fred Hutch. A record number of people — nearly 2,500 — registered to bike, walk or run in the event, which this year has already raised more than \$2.5 million and counting. Over its seven-year history, Obliterate has raised more than \$17 million, 100% of which funds research at the Hutch. [Read More](#)

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Interesting Articles

The Public's Trust in Scientists Rises, Pew Poll Shows

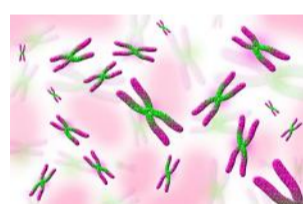
The Scientist



Public trust in science rose in recent years, a new survey has shown: 86 percent of Americans said that they have at least "a fair amount" of confidence in scientists to act in the public interest, up from 78 percent in 2016. The results showed that scientists now rank slightly ahead of military leaders and well above religious heads, journalists, and business executives when it comes to trust. [Read More](#)

Why Human Germline Editing Might Never Be Legal in the U.S.

The Hastings Center



He Jiankui's announcement that he had created the first gene-edited babies led to a call for a moratorium on editing human germline cells to produce genetically modified babies. Even the signatories of the moratorium, however, suggested that CRISPR might one day be safe enough for ethical, clinical use on the germline. What would it take for the first case of germline editing to proceed under applicable U.S. law and ethical standards? [Read More](#)

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Upcoming Events in Seattle

- August 20 7:00 PM **Recompose: Innovation in Death Care**
Pacific Science Center
- August 21 7:00 PM **Medical Angels**
Seattle Public Library
- August 22 - 23 8:00 AM **Conference on Cell & Gene Therapy for HIV Cure**
Marriott Residence Inn Seattle, Downtown/Convention Center
- August 22 5:30 PM **Happy Hour with Benchling**
The Collective Seattle
- August 29 5:00 PM **STEM Happy Hour with the Institute for Systems Biology Education**
Institute for Systems Biology

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Science Jobs in Seattle

- Director, CAR T Process Development**
Celgene
- Associate Director, Oncology Discovery**
Bluebird Bio
- Senior Medical Writer**
Seattle Genetics
- Postdoctoral Research Fellow, Post-Transcriptional Control in Cancer**
Fred Hutchinson Cancer Research Center
- Scientist, Single Cell Transcriptomics**
Allen Institute for Brain Science

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STEMCELL Technologies
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STEMCELL Technologies
- Regional Sales Manager, Northern China (Vancouver, BC)**
STEMCELL Technologies
- Product and Scientific Support Specialist, Stem Cell Biology (Vancouver, BC)**
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