

Publications of the Week
A Therapeutic Cancer Vaccine Delivers Antigens and Adjuvants to Lymphoid Tissues Using Genetically Modified T Cells

 First Author: Joshua Veatch (*pictured, left*) | Senior Author: Stanley Riddell (*right*)
 The Journal of Clinical Investigation | Fred Hutch and UW


The authors sought to harness gene-modified T cells as a vaccine platform and developed cancer vaccines composed of autologous T cells modified with tumor antigens and additional adjuvant signals. T cells expressing model antigens and a broad range of tumor neoantigens induced robust and durable T cell responses through cross-presentation of antigens by host dendritic cells. [Profile](#) | [Abstract](#)

The Landscape of Alternative Polyadenylation in Single Cells of the Developing Mouse Embryo

 First Author: Vikram Agarwal | Senior Author: Jay Shendure (*pictured*)
 Nature Communications | UW and Howard Hughes Medical Institute


The authors examine a dataset comprising ~2 million nuclei spanning E9.5–E13.5 of mouse embryonic development to quantify transcriptome-wide changes in alternative polyadenylation. By measuring 3'-untranslated region isoforms in an expansive single cell dataset, their work provides a transcriptome-wide and organism-wide map of the dynamic landscape of alternative polyadenylation during mammalian organogenesis. [Abstract](#)

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Awards
\$56 Million NIH Grant to Expand Alzheimer's Research

UW Medicine



The National Institute of Aging, part of the National Institutes of Health, is awarding a grant expected to total \$55.6 million to the Adult Changes in Thought study, led by Dr. Paul Crane (*pictured*), professor of medicine at the UW School of Medicine, and co-principal investigators at Kaiser Permanente Washington and the University of California San Diego. The funds will be used to advance the understanding of Alzheimer's and diversify and broaden participation in the study. [Read More](#)

Diagnostics Startup ID Genomics Snags NIH Grant to Develop Rapid Test for COVID-19 Variants

GeekWire



ID Genomics will accelerate its development of a quick test for variants of the COVID-19 virus with a new grant from the US National Institutes of Health (NIH). The company announced the \$300,000 small business grant for the dipstick-based test, currently dubbed CovNET. Some existing rapid tests can also pick up a single variant or a few, but CovNET stands out by distinguishing among dozens, according to ID Genomics' Co-Founder Evgeni Sokurenko (*pictured*). [Read More](#)

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Local News
First-of-Its-Kind Study Looks at Link Between Genes and Prostate Cancer

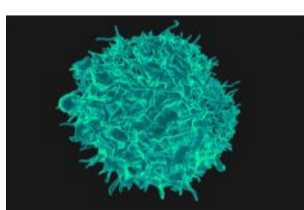
PR Newswire



Researchers from Johns Hopkins University and UW Medicine announced they are collaborating on a first-of-its-kind long-term observational study to learn how genetic differences can affect patient outcomes. "If we want to better understand prostate cancer, we have to better understand genes," explained Dr. Heather Cheng (*pictured*), Associate Professor of Medical Oncology at UW Medicine and co-lead investigator of the study. [Read More](#)

New Computational Method Opens Window into Immune Cell Behavior

Fred Hutch



A new computational method called CoNGA could help bring into focus the hidden biological patterns that link T-cell receptor (TCR) gene sequences and T-cell function. Developed by a collaborative team of scientists from Fred Hutch, St. Jude Children's Research Hospital, 10X Genomics and the University of Southern California, CoNGA can analyze complex data gathered from individual T cells to reveal new populations of T cells and unearth TCR characteristics that shape T-cell development. [Read More](#)

Seattle Biotech Firm Shape Therapeutics Inks Gene Therapy Deal with Roche Worth Up to \$3B

GeekWire



Shape Therapeutics has signed a deal potentially exceeding \$3 billion with Roche to support the development of gene therapies for Alzheimer's and Parkinson's disease. Shape's RNA editing technology could potentially be used to change the amount of a key regulatory protein in the body or treat genetic diseases. Shape aims to "unlock the next breakthrough in RNA technologies in the gene therapy space across a wide range of therapeutic areas," said Francois Vigneault (*pictured*), Co-Founder and CEO. [Read More](#)

Biotech Companies Fuel IPO Boom in Washington State over the Past Year

GeekWire



In a region better known for its tech startups and legions of software engineers, it's biotech companies that have helped lead a recent IPO boom in the state of Washington, accounting for eight of 11 firms joining the public markets via a traditional IPO over the past year. In total, Washington state biotech companies have reeled in more than \$2 billion in public debuts over the past 12 months. [Read More](#)

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Upcoming Events in Seattle

September 7 12:00 PM	Race and Ethnicity in Analyses of Health Care Data: Reflections from KPWHRI Researchers Online
September 7 3:00 PM	VIDD Scientific Seminar Series Online
September 9 7:30 AM	East West Life Science Summit Online
September 10 5:00 PM	CELLEBRATION Online
September 16 10:30 AM	Distinguished Seminar: Kay Tye Online

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Science Jobs in Seattle
Postdoctoral Research Associate, Translational Research
 Benaroya Research Institute at Virginia Mason

Scientist/Senior Scientist, Immuno-Oncology
 Systimmune

Postdoctoral Research Fellow, Houghton Lab
 Fred Hutch

Process Engineer, Lab Specialist
 Bristol Myers Squibb

Senior Director, Clinical Research Pulmonary Medicine
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