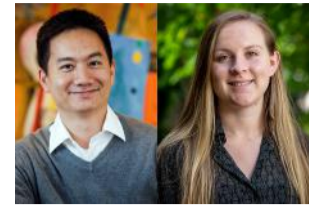


Publications of the Week
Regulation of Collective Metastasis by Nanolumenal Signaling

 First Author: Emma Wrenn (*pictured, right*) | Senior Author: Kevin Cheung (*pictured, left*)
 Cell | Fred Hutch and UW


Researchers used mouse and human breast cancer models to identify a collective signal generated by tumor cell clusters supporting metastatic colonization. They showed that tumor cell clusters produce the growth factor epigen and concentrate it within nanolumina — intercellular compartments sealed by cell-cell junctions and lined with microvilli-like protrusions. [Profile](#) | [Abstract](#) | [Press Release](#)

A Petascale Automated Imaging Pipeline for Mapping Neuronal Circuits with High-Throughput Transmission Electron Microscopy

 First Author: Wenjing Yin | Senior Author: Nuno Macarico da Costa (*pictured*)
 Nature Communications | Allen Institute


Scientists built a parallel imaging pipeline using transmission electron microscopes, implemented 24/7 continuous autonomous imaging, and enabled the acquisition of petascale datasets. The suitability of this architecture for large-scale imaging was demonstrated by acquiring a volume of more than 1mm³ of mouse neocortex, spanning four different visual areas at synaptic resolution, in less than 6 months. [Abstract](#)

[View All Publications](#)
Awards
Dr. Ruth Etzioni Receives Rosalie & Harold Rea Brown Endowed Chair

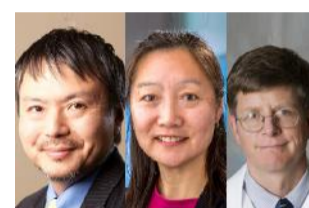
Fred Hutch



Fred Hutch biostatistician Dr. Ruth Etzioni (*pictured*) was named the inaugural recipient of the Rosalie & Harold Rea Brown Endowed Chair. The new endowed chair will help advance Dr. Etzioni's population science research, which focuses on cancer screening and early detection, particularly in breast and prostate cancers. [Read More](#)

FDA Awards Six Grants to Fund New Clinical Trials to Advance the Development of Medical Products for the Treatment of Rare Diseases

BioSpace



The US FDA have awarded six new clinical trial research grants totaling over \$16 million over the next four years. These trial research grants enhance the development of medical products for patients with rare diseases. Recipients include (*pictured, from left to right*) Acucela's Dr. Ryo Kubota, Fred Hutch's Dr. Stephanie Lee and Seattle Children's Dr. Christopher Goss. [Read More](#)

[View All Awards](#)
Local News
Seattle Genetics Adopts New Name

Seagen Inc.



Seagen Inc. is the new corporate name for Seattle Genetics, Inc. "The change in our corporate name from Seattle Genetics to Seagen reflects who we are today, as we expand our presence beyond the Pacific Northwest and outside of the United States to support the commercialization of TUKYSA globally," said Dr. Clay Siegall (*pictured*), President and Chief Executive Officer. [Read More](#)

Targeting the Genetic Roots of Autoimmunity

Benaroya Research Institute at Virginia Mason



Every human has almost exactly the same DNA. But about 0.1% of human DNA is variable. This tiny percentage drives a surprising number of unique qualities in humans, from hair and eye color to our metabolism and immune responses. "Genetic variation contributes to the wonderful diversity among people," explains Dr. John Ray (*pictured*). "But it can also lead to disease." [Read More](#)

Researchers Recruiting Patients for Regeneron Antibody Trial

UW Medicine



Researchers at UW Medicine and Fred Hutch are jointly testing monoclonal antibodies created by Regeneron Pharmaceuticals to prevent COVID-19, and are starting to recruit patients. The scientists are testing a double antibody cocktail called REGN-COV2, which had favorable results in mouse models and a positive review of the Phase I safety evaluation in an initial cohort. [Read More](#)

Modeling Living Systems with 4D Complexity

Institute for Stem Cell and Regenerative Medicine (ISCRM)



Armed with a five-year, \$1.9 million Maximizing Investigators' Research Award from the National Institute of General Medical Sciences, Dr. Cole DeForest (*pictured*) and his group at ISCRM aim to pioneer methods to mimic, exploit, and quantify biological systems in full 4D complexity, accounting for dynamics across space and time in unprecedented detail. [Read More](#)

A Viable Vaccine against COVID-19 Is Likely But Many Questions Remain

The Lund Report



With deaths and cases continuing to pile up in the pandemic, scientists, government officials and consumers are all eager to see a viable vaccine on the market to prevent the spread of infection. There are dozens of candidates in various stages of development, but no one knows when one will get to the finish. [Read More](#)

ISB Researchers Identify Signals of Metastatic Cancer Years Prior to Diagnosis

Institute for Systems Biology (ISB)



In an ISB study led by Dr. Andrew Magis (*pictured*), scientists analyzed about 1,200 proteins from the longitudinal blood samples of 79 participants, including samples collected pre-diagnosis from 10 cancer patients. For three patients who went on to be diagnosed with three distinct types of metastatic cancer, the research team found specific proteins that were significant outliers when compared to other program participants. [Read More](#)

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

October 23 7:30 AM	Washington State Life Science Summit Online
October 27 12:00 PM	Engineering Human Tissues for Medical Impact Online
October 28 7:00 AM	Women in Bio-Seattle: Virtual Networking Online
November 5 - 6 9:00 AM	BCREGMED & ISCRM Cascadia Corridor Research Symposium Online
November 18 8:30 AM	Hindsight 2020 Virtual Symposium Online

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

- Senior Associate Scientist, Immuno-Oncology & Cellular Therapy Late Stage Research**
Bristol Myers Squibb
- Senior Associate Scientist, Inflammation**
Gilead Sciences
- Scientist, Pharmaceutical Sciences**
Seagen
- Scientist, Mass Spectrometry**
SystImmune
- Scientist, Stem Cells and Gene Editing**
Allen Institute for Cell Science

[View 33 Other Science Jobs](#) | [Submit a Job](#)

 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

