

Publications of the Week

Role of Mitochondria in the Myopathy of Juvenile Dermatomyositis and Implications for Skeletal Muscle Calcinosi

First Author: Bhargavi Duvvuri | Senior Author: Christian Lood (*pictured*)
Journal of Autoimmunity | UW



Patients with juvenile dermatomyositis exhibited elevated levels of mitochondrial markers associated with muscle damage and calcinosis. Of particular interest are anti-mitochondrial antibodies predictive of calcinosis. Human skeletal muscle cells undergo time- and dose-dependent accumulation of calcium phosphate salts with preferential localization to mitochondria. Calcification renders skeletal muscle cells mitochondria stressed, dysfunctional, destabilized, and interferogenic. [Abstract](#)

Nuclear Pore Complexes Mediate Subtelomeric Gene Silencing by Regulating PCNA Levels on Chromatin

First Author: Sanjeev Kumar | Senior Author: John Aitchison (*pictured*)
Journal of Cell Biology | Seattle's Children Hospital



The *Saccharomyces cerevisiae* inner ring nucleoporin Nup170 has been implicated in chromatin organization and the maintenance of gene silencing in subtelomeric regions. To gain insight into how Nup170 regulates this process, scientists used protein-protein interactions, genetic interactions, and transcriptome correlation analyses to identify the Ctf18-RFC complex, an alternative proliferating cell nuclear antigen (PCNA) loader, as a facilitator of the gene regulatory functions of Nup170. [Abstract](#)

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Awards

Dr. Mroj Alassaf Named a 2023 Helen Hay Whitney Fellow

Fred Hutch



Postdoctoral fellow Dr. Mroj Alassaf (*pictured*) recently received a three-year, \$215,000 Helen Hay Whitney Foundation fellowship to figure out how mitochondrial components from fat can reach the brain and what influence they have on its health. The work could have implications beyond merely unraveling a communication pathway between fat cells and brain cells, she said. [Read More](#)

Meet The 2023 ISCRM IPA Recipients

UW Institute for Stem Cell & Regenerative Medicine (ISCRM)



Join us in congratulating the following researchers who have received the 2023 ISCRM Innovation Pilot Awards. ISCRM's Innovation Pilot Award (IPA) program aims to support innovative research of any current UW faculty member of ISCRM who is pursuing novel experiments that are directly relevant to stem cell biology or regeneration. The award winners include Dr. Cole DeForest (*pictured*) who studies advanced cell fate changes in 4D-tunable engineered biomaterials. [Read More](#)

ITHS Co-Principal Investigator Katherine Tuttle Honored with Lifetime Achievement Award

UW Institute of Translational Health Sciences (ITHS)



ITHS Co-Principal Investigator Dr. Katherine Tuttle (*pictured*) has been named the 2023 winner of the John P. Peters Award by the American Society of Nephrologists. The award, named for one of the founders of the field of nephrology, recognizes individuals who have made substantial research contributions to the study of kidney disease. [Read More](#)

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Local News

'Massive Gains' Secured for Postdocs and Researchers Following Nine-Day Strike

The Daily



Following a nine-day strike, UW postdocs and research scientists and engineers reached a tentative contract agreement with UW. The contract was ratified by 99% of members across the research and engineer and postdoc units. Key features of the agreement include secured minimum wage pay, increased childcare funding, and expanded accommodations for disabled union members. [Read More](#)

Ozette Technologies Announces New Collaboration with Umoja Biopharma to Accelerate Biomarker Discovery in Preclinical Studies

Yahoo Finance



Ozette Technologies, a technology-driven life sciences company, announced its collaboration with Umoja Biopharma, a transformative immuno-oncology company creating off-the-shelf treatments for solid and hematologic cancers. Umoja will use Ozette's AI-powered single-cell technology for their preclinical studies. The goal of this collaboration is to help derive insights that have the potential to catalyze Umoja's therapeutic program development. [Read More](#)

Biotech Startup Developing Tests and Treatments for Alzheimer's and Parkinson's Disease Raises \$52.9M

Geek Wire



University of Washington spinout AltPep, which is developing tests and treatments for Alzheimer's and Parkinson's disease, completed a \$52.9 million Series B funding round. The funding will help propel the company's experimental treatments into clinical trials and support its regulatory application for a blood test to detect Alzheimer's disease at its earliest stages. [Read More](#)

CAR T-Cell Therapy Is the Leading Edge of Care for Post-Transplant Lymphoproliferative Disorder

Fred Hutch



Fred Hutchinson Cancer Center is home to some of the world's most advanced cancer treatments, including CAR T-cell therapy for post-transplant lymphoproliferative disorder. Physicians in the Cancer and Organ Transplant Clinic at Fred Hutch recently published a report of a patient who became the 17th in the world to receive this life-saving therapy. [Read More](#)

ITHS Interview Profile: Diving into Male Contraception Research with Dr. John Amory

UW ITHS



In their June installment of this series, ITHS sat down with Dr. John Amory (*pictured*), a renowned researcher in the field of male contraception and the Deputy Director and Associate Principal Investigator of the Institute of Translational Health Sciences (ITHS). He also co-directs the KL2 Multidisciplinary Clinical Research Career Development Program at ITHS. [Read More](#)

New Clues to Alzheimer's Emerge in a Study of the Brain's Immune Cells

UW Medicine



UW researchers, including Dr. Suman Sayadev (*pictured*), using brain autopsy samples from 22 Alzheimer Disease Research Center research participants, have made a new discovery about human microglia and their relevance to Alzheimer's disease and targeted therapeutics. Research suggests that in people with Alzheimer's disease pathology in their brains, some microglia react too strongly, causing so much inflammation that the response drives the disease, rather than preventing it. [Read More](#)

Dr. Sita Kugel Receives V Foundation Translational Research Award

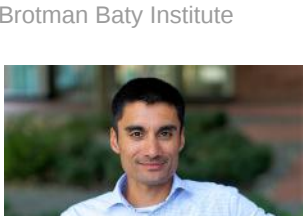
Fred Hutch



Fred Hutchinson Cancer Center pancreatic cancer researcher Dr. Sita Kugel (*pictured*), has received an inaugural Translational Research Award from the V Foundation for Cancer Research. The \$800,000, four-year grant will allow Dr. Kugel to pursue an innovative Phase 1b clinical trial to translate from the lab to the clinic breakthroughs her group has made in developing a tailored treatment for a subtype of pancreatic cancer. [Read More](#)

Insights on 'Conquering' Chromatin in Childhood Cancers Presented at Seattle Children's Research Institute

Brotman Baty Institute



Dr. Jay Sarthy (*pictured*) had three objectives for the one-day seminar, "Conquering Chromatin in Childhood Cancers," he hosted June 5 at the Seattle Children's Research Institute: Convene local and national experts; highlight research conducted at the institute's Ben Towne Center for Childhood Cancer Research; and have fun. [Read More](#)

Scientists Say They've Reached Turning Point in Cancer Research With Vaccines

TIME Magazine



The next big advance in cancer treatment could be a vaccine. After decades of limited success, scientists say research has reached a turning point, with many predicting more vaccines will be out in five years. These aren't traditional vaccines that prevent disease, but shots to shrink tumors and stop cancer from coming back. Targets for these experimental treatments include breast and lung cancer, with gains reported this year for deadly skin cancer melanoma and pancreatic cancer. [Read More](#)

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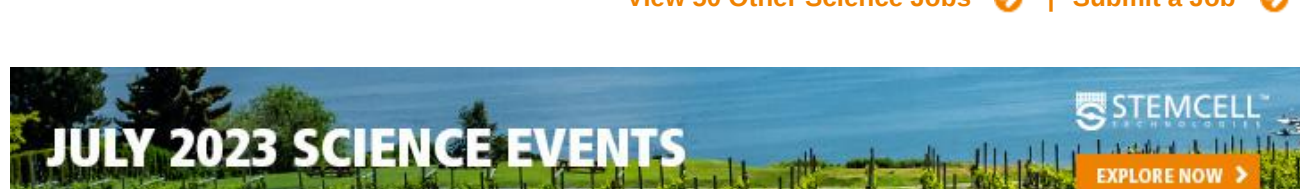
📅 Upcoming Events in Seattle

July 7 12:00 pm	Alliance of Angels Panel: Trends and Capital Raising for Life Science Startups The Pacific Northwest Mission Acceleration Center
July 13 8:30 am	2023 Allen Institute Modeling Software Workshop Allen Institute
July 18 4:00 pm	Life Science Washington HR Connect Summer Gathering 2023 Life Science Washington
July 19 8:00 am	Jacob Green Charity Golf Classic The Golf Club at Newcastle
July 19 9:30 am	New Multi-Modal Single Cell Technologies Enable Deep Profiling Into Human Immune Cell Development Online

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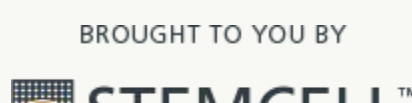
📁 Science Jobs in Seattle

- Senior Scientist, Functional Genomics**
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- Animal Care Technician I**
Explora Biolabs
- Research Associate I, Lab Animal Services**
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Seattle's Children Hospital

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