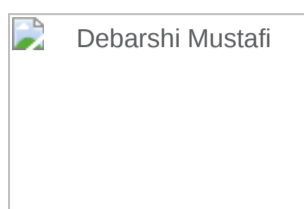


**Publications of the Week**
**Peripheral Macrophages Drive CNS Disease in the *Ndufs4(-/-)* Model of Leigh Syndrome**

 First Author: Allison Hanaford (*pictured*) | Senior Author: Simon Johnson  
 Brain Pathology | Seattle Children's


Subacute necrotizing encephalopathy, or Leigh syndrome (LS), is the most common pediatric presentation of genetic mitochondrial disease. The presence of lesions in the brainstem are a defining feature of the disease but the mechanisms underlying their pathogenesis have been elusive. Researchers demonstrated that high-dose pexidartinib, a CSF1R inhibitor, prevents LS central nervous system (CNS) lesions and systemic disease in the *Ndufs4(-/-)* mouse model of LS.

[Abstract](#)
**Familial Co-Segregation and the Emerging Role of Long-Read Sequencing to Re-Classify Variants of Uncertain Significance in Inherited Retinal Diseases**

 First Author: Pankhuri Gupta | Senior Author: Debarshi Mustafi (*pictured*)  
 npj Genomic Medicine | UW


Phasing genetic variants is essential in determining those that are potentially disease-causing. In autosomal recessive inherited retinal diseases, reclassification of variants of uncertain significance (VUS) can provide a genetic diagnosis in indeterminate compound heterozygote cases. Researchers report four cases in which familial co-segregation demonstrated a VUS resided *in trans* to a known pathogenic variant, thereby providing a genetic diagnosis in each case. [Abstract](#)

**Integrated Analysis of Cross-Links and Dead-End Peptides for Enhanced Interpretation of Quantitative XL-MS**

 First Author: Andrew Keller | Senior Author: James Bruce (*pictured*)  
 Journal of Proteome Research | UW


Chemical cross-linking with mass spectrometry provides low-resolution structural information on proteins in cells and tissues. Combined with quantitation, it can identify changes in the interactome between samples. Researchers describe analysis of dead-end peptides in the XLinkDB public cross-link database and show how a comparison of abundance ratios can be leveraged to reveal possible conformational explanations. [Abstract](#)

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**Awards**
**Rosalind Franklin Society Proudly Announces the 2022 Award Recipient for Tissue Engineering Part B: Reviews**

Mary Ann Liebert, Inc.



The Rosalind Franklin Society in partnership with Mary Ann Liebert Publishers enthusiastically congratulate the distinguished recipient of the 2022 annualRFS Award in Science, including senior author Dr. Jenny Robinson (*pictured*). This award recognizes the outstanding research and published work of women and underrepresented minority scientists, physicians, and engineers. [Read More](#)

**Grant King Named a 2023 Damon Runyon Fellow**

Fred Hutch



Fred Hutchinson Cancer Center postdoctoral fellow Dr. Grant King (*pictured*) was named a 2023 Postdoctoral Fellow by the Damon Runyon Cancer Research Foundation. The four-year, \$300,000 award will allow King to study how "extra-chromosomal" DNA, or DNA that breaks away from larger chromosomes, can persist long-term in cells. [Read More](#)

**WRF Awards \$100,000 to Pacific Northwest Research Institute in Honor of Dr. David J. Galas**

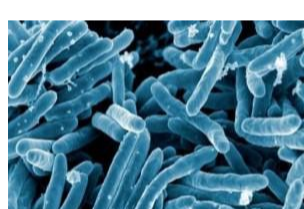
WRF



Washington Research Foundation (WRF) has awarded a \$100,000 grant to Pacific Northwest Research Institute in honor of Dr. David J. Galas (*pictured*) who helped to create the WRF Postdoctoral Fellowship program in 2017 and served on the WRF board of directors from 2010 until his death in May. The grant will support the continuation of work begun by Dr. Galas and his colleague Dr. Lisa Stubbs investigating the genetic links between stress and a range of health disorders. [Read More](#)

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**Local News**
**PAN-TB Collaboration Announces the Start of a Phase 2 Clinical Trial to Evaluate Two Novel Tuberculosis Treatment Regimens**

BioSpace



The Project to Accelerate New Treatments for Tuberculosis (PAN-TB) collaboration announced the start of a phase 2b/c clinical trial. The trial will evaluate whether novel regimens that combine registered products and new chemical entities will be effective when treating drug-sensitive TB and inform the development of a "pan-TB" regimen capable of treating all forms of active pulmonary TB. [Read More](#)

**Phase Genomics Lands \$2.5M in Fresh Funding**

Puget Sound Business Journal



Phase Genomics helps researchers better understand the blueprint of species using a technology that "combines the collective power of today's common cytogenetic solutions at a fraction of the cost and with added predictive power" its CEO says. The Seattle-based company says the funding will help target aberrations in cancer to help with treatment decisions. [Read More](#)

**The Next Generation of Researchers**

Seattle Children's



The Seattle Children's Research Institute is providing a path to careers in science. The Summer Scholars Program has welcomed 49 new students to assist in 44 lab and clinical research projects for 2023. The students learn about lab safety, ethical considerations, developing research questions, scientific writing and more, culminating with presenting their research at a poster session. [Read More](#)

**Dr. Tumaini Coker on the Future of Health Equity Research**

Institute of Translational Health Sciences (ITHS)



The ITHS interview series shines a light on individuals who are doing critical work across the vast spectrum of translational science. Dr. Tumaini Coker (*pictured*), a Professor of Pediatrics at UW, shared her academic and professional journey in the field of pediatrics, the importance of health equity research, and the probable future trajectory of the field. [Read More](#)

**The 2023 WISE Scholarship For Washington Women Pursuing STEM Education Opens on August 21<sup>st</sup>**

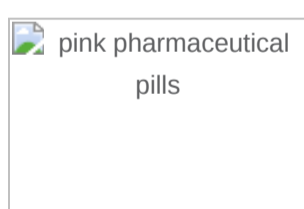
PR Newswire



Dr. Alexander Sobel (*pictured*) is pleased to announce the launch of the WISE (Women in STEM Excel) Scholarship for 2023. The WISE Scholarship was established in 2017 and provides a \$3,500 award for the recipient to use on various educational expenses including textbooks, supplies, technology, on-campus dining, housing, and transportation. [Read More](#)

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**Interesting Articles**
**How a Controversial US Drug Policy Could Be Harming Cancer Patients Worldwide**

Nature



The FDA's accelerated-approval process was designed to help people access life-saving drugs. But gaps in communication could mean that people are undergoing treatments known to be ineffective. Accelerated approvals in the US are granted on the basis of clinical studies that suggest a health benefit without necessarily demonstrating it fully. What's next for this process that prioritizes speed over certainty? [Read More](#)

**NIH Withdraws Opposition to Unionization Effort**

Science



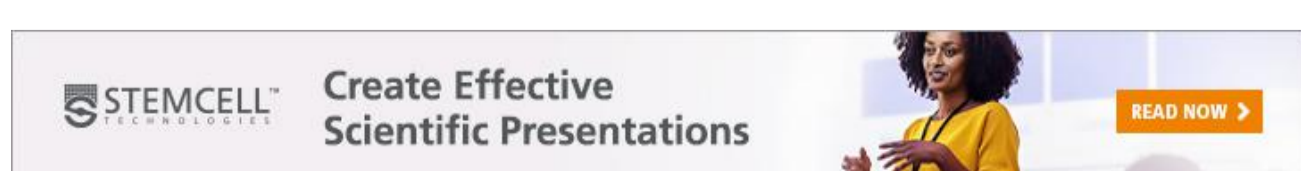
After questioning the legal standing of a unionization effort by early-career researchers, the US National Institutes of Health (NIH) now says it won't oppose a vote by potential union members. "I am excited the NIH has chosen to do the right thing," says Marjorie Levinstein, a neuropharmacology postdoc at the National Institute on Drug Abuse and an organizer for the proposed union. [Read More](#)

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**Upcoming Events in Seattle**

- September 7 8:30 am **From the Laboratory to Leadership** Virtual
- September 13 12:00 pm **Seattle Pediatric Innovation** Virtual
- September 17 - November 21 9:00 am **Lake Conference – Neural Coding and Dynamics** Hyatt Regency Lake Washington
- September 20 - 24 9:00 am **14<sup>th</sup> Annual In-Person Comprehensive Hematology and Oncology Review Course** Fred Hutch
- September 23 8:00 am **BACPAC Prostate Cancer Community Research Symposium** Fred Hutch

**Science Jobs in Seattle**

- Clinical Research Scientist**  
Seattle Children's
- Director, Scientific Instrumentation and Process Engineering**  
Allen Institute
- Quality Assurance Specialist**  
UW
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Cajal Neuroscience
- Research Associate III, Molecular Biology**  
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