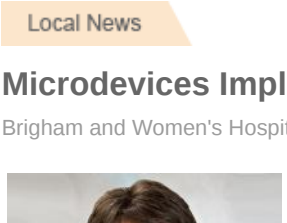
Volume 5.36: September 18, 2023

Publications of the Week

Airway Stem Cell Reconstitution by the Transplantation of Primary or Pluripotent Stem Cell-Derived Basal Cells

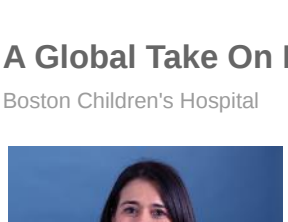
First Author: Liang Ma | Senior Author: Darrell Kotton *(pictured)*
Cell Stem Cell | Boston University



Life-long reconstitution of a tissue's resident stem cell compartment with engrafted cells has the potential to durably replenish organ function. The authors demonstrate the engraftment of the airway epithelial stem cell compartment via intra-airway transplantation of mouse or human primary and pluripotent stem cell-derived airway basal cells. **Abstract**

Irisin Reduces Amyloid-β by Inducing the Release of Neprilysin from Astrocytes Following Downregulation of ERK-STAT3 Signaling

First Author: Eunhee Kim | Senior Authors: Se Hoon Choi *(pictured)*
Neuron | Massachusetts General Hospital, Harvard Medical School, and Dana-Farber Cancer Institute



Physical exercise has been shown to reduce amyloid-β (Aβ) burden in various Alzheimer's disease (AD) mouse models. Irisin, an exercise-induced hormone, is the secreted form of fibronectin type-III-domain-containing 5. Using a three-dimensional cell culture model of AD, the authors show that irisin significantly reduces Aβ pathology by increasing astrocytic release of the Aβ-degrading enzyme neprilysin. **Abstract**

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Awards

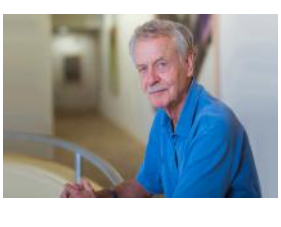
2023 Hausman Scholarship Recipients

Boston University Biology

Molly Frank, Noah Singer, and Michelle Feivelson *(pictured)* are this year's recipients of the Robert E. Hausman Scholarship for continuing MS students. The Robert E. Hausman Scholarship for continuing students provides support for MS students who stand out in their studies. The award was established in 2019 in honor of Dr. Robert Hausman, who served as the Director of Graduate Studies for Biology for over 20 years. **Read More**

Five MIT Researchers in Teams Shortlisted for Cancer Grand Challenges Funding

Koch Institute



Koch Institute faculty members Drs. Michael Birnbaum *(pictured, top left)*, Ömer Yilmaz *(top right)*, Brandon DeKosky *(bottom left)*, and Regina Barzilay *(bottom right)*, along with their MIT colleague Seychelle Vos, have advanced to the final stages of Cancer Grand Challenges as part of teams MATCHMAKERS, PROSPECT and KOODAC. If selected, these interdisciplinary, global teams may receive up to $25M to make radical progress against some of cancer's toughest challenges. **Read More**

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Local News

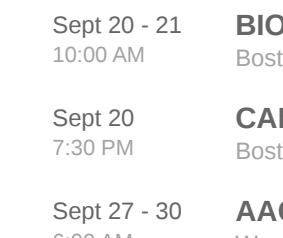
Microdevices Implanted into Tumors Offer New Way to Treat Brain Cancer

Brigham and Women's Hospital

Researchers from Brigham and Women's Hospital, led by Dr. Pier Paolo Peruzzi *(pictured)*, have designed a device that can help test treatments in patients with gliomas, a type of tumor that originates in the brain or spinal cord. The device, which is designed to be used during standard care of surgery, provides unprecedented insight into the effects of drugs on glioma tumors and caused no adverse effects on patients in a phase 1 clinical trial. **Read More**

A Global Take On Rare Disease Research: Maya Chopra

Boston Children's Hospital



Several years ago, Dr. Maya Chopra *(pictured)* identified a rare variant in one copy of a gene called *ANKRD17*. Today, she co-leads an international collaboration that has now described more than 30 individuals with rare *ANKRD17* variants. The condition, a rare neurodevelopmental disorder, has been named for her: Chopra-Amiel-Gordon Syndrome. **Read More**

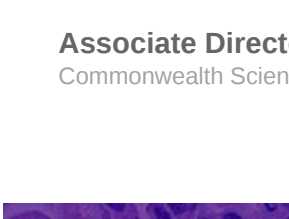
Dana-Farber Study Finds Up-Front Chemotherapy Boost Could Benefit Patients with Non-Small Cell Lung Cancer

Dana-Farber Cancer Institute

In a phase 3 global clinical trial called FLAURA2 led by researchers from Dana-Farber Cancer Institute, including Dr. Pasi Janne *(pictured)*, patients with non-small cell lung cancer with an epidermal growth factor receptor mutation taking standard therapy plus chemotherapy had a median of nearly nine months increase in progression free survival compared with patients taking standard therapy alone. **Read More**

SARS-CoV-2, the Virus Behind COVID-19, Can Infect Sensory Neurons

Whitehead Institute



New research from the lab of Dr. Rudolf Jaenisch *(pictured)*, published in the journal *iScience*, shows that SARS-CoV-2 can infect sensory neurons, leading to changes in the cells' gene expression. These findings may help to explain how the virus causes symptoms in the peripheral nervous system, laying a foundation for researchers to develop treatments. **Read More**

Remembering Andrew Bohm, School of Medicine Associate Professor

TuftsNow

Dr. Alex Andrew Bohm *(pictured)*, Associate Professor of Developmental, Molecular and Chemical Biology at Tufts University School of Medicine and the Graduate School of Biomedical Sciences, died August 28. Dr. Bohm, who went by Andrew, was a beloved member of the Tufts community not only for his decades of teaching and research, but also for his service to the larger postdoctoral community as Tufts' Postdoctoral Officer. **Read More**

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Upcoming Events in Boston

Sept 18 - 21 8:00 AM	**The BioProcess International Conference & Exhibition**	Boston Convention and Exhibition Center
Sept 18 - 21 9:30 AM	**BioTech Week**	Boston Convention and Exhibition Center
Sept 20 - 21 10:00 AM	**BIOMEDevice Boston 2023**	Boston Convention and Exhibition Center
Sept 20 7:30 PM	**CANARY**	Boston Common Theatre
Sept 27 - 30 6:00 AM	**AACR Special Conference in Cancer Research: Pancreatic Cancer**	Westin Copley Place

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Science Jobs in Boston

Scientific Inside Sales Representative, Cell Culture
STEMCELL Technologies

Cell & Gene Therapy Specialist
STEMCELL Technologies

Program Coordinator, Global Health Delivery
Harvard Medical School

Research Technician
Boston University

Associate Director/Director, Gene Editing
Commonwealth Sciences

View 47 All Science Jobs

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