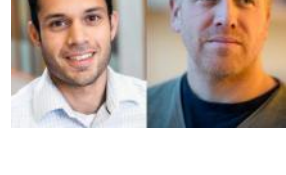


Publications of the Week

A Wireless, Battery-Free Device Enables Oxygen Generation and Immune Protection of Therapeutic Xenotransplants *In Vivo*

First Author: Siddharth Krishnan (*pictured, left*) | Senior Author: Daniel Anderson (*right*)
The Proceedings of the National Academy of Sciences | MIT and Boston Children's Hospital



Cell therapies for protein replacement result in functional cures for patients with chronic, life-threatening conditions such as type 1 diabetes, but their development has been limited by significant challenges. Here, researchers combine bioelectronics with encapsulated cell therapies to develop the first wireless, battery-free oxygen-generating immune-isolating device for the oxygenation and immune isolation of cells *in vivo*. [Abstract](#) | [Press Release](#)

Stochastic RNA Editing of the Complexin C-terminus Within Single Neurons Regulates Neurotransmitter Release

First Author: Elizabeth Brija (*pictured*) | Senior Author: Troy Littleton
Cell Reports | MIT



Neurotransmitter release requires assembly of the SNARE complex fusion machinery. The presynaptic protein Complexin (Cpx) controls spontaneous and evoked neurotransmitter release by modulating SNARE complex zippering. Here, researchers demonstrate that RNA editing of the Cpx C-terminus modifies its ability to clamp SNARE-mediated fusion and alters presynaptic output. [Abstract](#) | [Press Release](#)

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Awards

HHMI Awards Hanna Gray Fellowships to 25 Early Career Scientists

Howard Hughes Medical Institute (HHMI)



The Howard Hughes Medical Institute announced the selection of the 2023 Hanna Gray Fellows, a cohort of twenty-five early career scientists who represent a promising future for biomedical science. Among the recipients are Dr. Kow Akaa Essuman (*pictured, right*) of Massachusetts General Hospital and Dr. James Osei-Owusu (*left*) of Harvard Medical School. [Read More](#)

Rhoda Au Receives Melvin R. Goodes Prize for Excellence in Alzheimer's Drug Development

Boston University



The Alzheimer's Drug Discovery Foundation presented Dr. Rhoda Au (*pictured*), Professor of Anatomy & Neurobiology, with the 2023 Melvin R. Goodes Prize for Excellence in Alzheimer's Drug Development for her pioneering work with digital biomarkers. The annual award honors prominent scientists who are recognized for their work transforming the Alzheimer's clinical trial space. [Read More](#)

Congratulations to the 2023 Amon Award Winners

Koch Institute



The Koch Institute at MIT is pleased to announce the winners of the 2023 Angelika Amon Young Scientist Award, Johanna Gassler (*pictured, left*), and Ruxandra-Andreea Lambuta (*right*). The prize was established to recognize graduate students in the life sciences or biomedical research who embody Dr. Amon's infectious enthusiasm for discovery science. [Read More](#)

Maiko Kitaoka Chosen as a HHMI Hanna Gray Fellow

Whitehead Institute



The Howard Hughes Medical Institute (HHMI) has selected Whitehead Institute postdoctoral researcher Dr. Maiko Kitaoka (*pictured*) as a Hanna H. Gray Fellow. As one of 25 scientists selected for the prestigious appointment this year, Kitaoka will receive funding that supports her postdoctoral training and may continue into her early career year as independent faculty. [Read More](#)

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Local News

Deep Learning Reveals Valuable Clues About Kidney Cancer in Pathology Slides

Dana-Farber Cancer Institute



A team of Dana-Farber researchers has identified a potential new way to assess clinically valuable features of clear cell renal cell carcinoma, a form of kidney cancer, using image processing with deep learning. "This is an example of the growing convergence of AI and cancer biology," says co-senior author Dr. Eliezer Van Allen (*pictured*). [Read More](#)

Slowey McManus Announces Communications Accelerator Program for Emerging Life Sciences Companies

MassBio



Slowey McManus Communications announced the launch of the Communications Accelerator program for emerging life sciences companies. The program gives young, growing life science companies a concentrated group of services to prepare them to introduce themselves to the public, with an emphasis on reaching target audiences: investors, partners, and scientific talent. [Read More](#)

New Spanish-Language Neuroscience Podcast Flourishes in Third Season

McGovern Institute



Sylvia Abente, a clinical neurologist at the Universidad Nacional de Asunción in Paraguay, and Juan Carlos Caicedo Mera, a neuroscientist at the Universidad Externado de Colombia, are just two of the 33 neuroscientists in seven Latin American countries that Dr. Jessica Chomik-Morales (*pictured*) interviews for the expansive third season of her Spanish-language podcast, "Mi Ultima Neurona" ("My Last Neuron"). [Read More](#)

Two Weeks in Kenya — The Ragon Researchers Who Joined a Field Expedition to Study Bats in an African Rainforest

Ragon Institute



High up in the mountains of Kenya are the lush Taita Hills — a vibrant and beautiful rainforest that is swarming with bats. Those bats, a vital subject in the study of immunology, are what Ragon faculty member Dr. Aaron Schmidt and Harvard PhD graduate students Daniel Maurer and Anne Roffler (*pictured, right*) went to study on a cross-collaborative trip with researchers from the across the globe. [Read More](#)

Laminar Pharma Receives Rare Pediatric Disease Designation from the U.S. FDA for LAM561

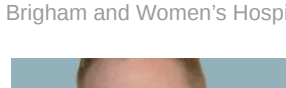
MassBio



Pediatric patients who develop pediatric-type diffuse high grade glioma face a significant unmet need with limited treatment options. Laminar Pharma has announced that the U.S. Food & Drug Administration has granted Rare Pediatric Disease Designation to LAM561, an investigational drug candidate for patients with pediatric-type diffuse high grade glioma. [Read More](#)

Common Brain Network Detected Among People with Substance Use Disorder

Brigham and Women's Hospital



A new study by researchers at Brigham and Women's Hospital suggests a common brain network exists among people with substance use disorder. "Our study found that different brain regions implicated in addiction are all a part of a common brain circuit," said Dr. Michael Fox (*pictured*). The study suggests there may be a specific circuit to target with neurostimulation therapies to combat addiction. [Read More](#)

How a New Grant Will Support the Quest for a More Complete Map of the Brain

Massachusetts General Hospital



Each brain cell, or neuron, has long projections called fibers that connect to other neurons in the brain. These connections are crucial to the systems that power our cognitive and motor functioning. Using advanced imaging technologies, researchers have been able to identify some of the major highways in the brain that these signals travel along. But the side roads—those smaller connections that can't be visualized yet—remain a mystery. [Read More](#)

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Upcoming Events in Boston

- October 4 - 5
8:30 AM **Festival of Genomics**
Boston Convention and Exhibition Center
- October 5
9:00 AM **Boston Symposium on Organic and Bioorganic Chemistry**
Merck Research Laboratories
- October 5
8:00 AM **CSIR: Where Innovation Meets Opportunity for Young Scientists**
Center for Life Sciences
- October 6 - 8
9:00 AM **Undergraduate Research Technology Conference**
Ray and Maria Stata Center
- October 12
5:00 PM **Networking and Customer Appreciation Night**
STEMCELL Technologies

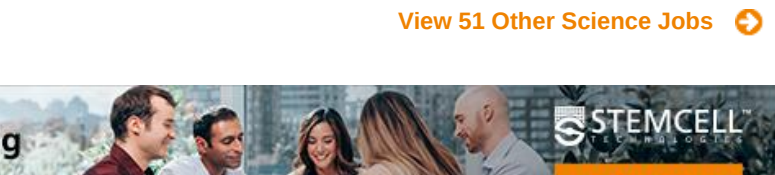
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Other Science Jobs in Boston

- Assistant Professor, Tenure-Track**
Boston University
- Research Assistant**
Harvard T.H. Chan School of Public Health
- Clinical Research Assistant I**
Boston Children's Hospital
- Research Assistant I**
MASS General Brigham
- Lab Animal Caretaker**
Tufts University

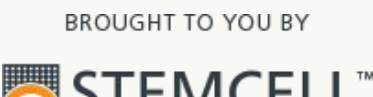
[View 51 Other Science Jobs](#) 

Eight Tips on Mentoring New Lab Members



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