

Publications of the Week

Brain-Region-Specific Changes in Neurons and Glia and Dysregulation of Dopamine Signaling in *Grin2a* Mutant Mice

First Author: Zohreh Farsi | Senior Author: Morgan Sheng (*pictured*)
Neuron | Broad Institute, MIT, and Harvard

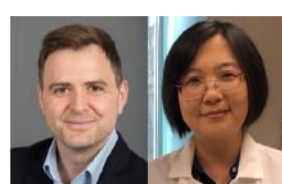


A genetically valid animal model could transform our understanding of schizophrenia (SCZ) disease mechanisms. Rare heterozygous loss-of-function mutations in *GRIN2A*, encoding a subunit of the NMDA receptor, greatly increase the risk of SCZ. By transcriptomic, proteomic, and behavioral analyses, researchers report six key findings in heterozygous *Grin2a* mutant mice.

[Abstract](#) | [Press Release](#)

Photopolymerizable Hydrogel for Enhanced Intramyocardial Vascular Progenitor Cell Delivery and Post-Myocardial Infarction Healing

First Author: Xuechong Hong (*pictured, right*) | Senior Authors: Rueli-Zeng Lin and Juan Melero-Martin (*left*)
Advanced Healthcare Materials | Boston Children's and Harvard



Cell transplantation success for myocardial infarction (MI) treatment is often hindered by low engraftment due to washout effects during myocardial contraction. A clinically viable biomaterial that enhances cell retention can optimize intramyocardial cell delivery. In this study, a therapeutic cell delivery method is developed for MI treatment utilizing a photocrosslinkable gelatin methacryloyl hydrogel. [Abstract](#)

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Awards

PhD Candidate to Use NIH Award to Study Cell Death in Cancer Patients

UMass Chan Medical School



Nicholas Harper (*pictured*), a PhD candidate in the Morningside Graduate School of Biomedical Sciences at UMass Chan Medical School, has received a prestigious Ruth L. Kirschstein National Research Service Award Individual Predoctoral Fellowship from the National Cancer Institute. Harper will use this award to study cell death as it relates to cancer therapies. [Read More](#)

Dr. Carl Streed Jr. Receives 40 Under 40 Public Health Catalyst Award

Boston University



Dr. Carl Streed Jr. (*pictured*), Assistant Professor of Medicine, is a recipient of a 2023 40 Under 40 Public Health Catalyst Award from Boston Congress of Public Health. He is part of the second cohort that represents the next generation of leaders, entrepreneurs, researchers, scientists, activists, authors, and directors who inspire and catalyze us all to a more just and equitable world. [Read More](#)

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Local News

Potent Oral Agent Acting As Immunotherapy and Targeted Treatment Produces High Response Rate in Certain Patients

Dana-Farber Cancer Institute



A new agent that subverts myeloma cells from within while also subjecting them to an immune system attack produced impressive responses in combination with dexamethasone in patients with multiple myeloma that had relapsed and stopped responding to all currently available therapies. This agent is detailed in a clinical trial conducted by researchers at Dana-Farber Cancer Institute led by Dr. Paul Richardson (*pictured*). [Read More](#)

Cracking the Code That Relates Brain and Behavior in a Simple Animal

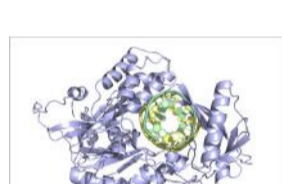
MIT News



MIT researchers model and create an atlas for how neurons of the worm *C. elegans* encode its behaviors, make findings available on their "WormWideWeb." In an open-access report in the journal *Cell*, the team presents new brain-wide recordings and a mathematical model that accurately predicts the versatile ways that neurons represent the worm's behaviors. [Read More](#)

Evolved Prime Editors Are Smaller and More Efficient for Therapeutic Applications

Broad Institute



Prime editing technologies allow scientists to precisely edit the genome in a variety of ways and could one day be used to treat genetic diseases. Now researchers at the Broad Institute of MIT and Harvard have used cutting-edge continuous laboratory evolution and engineering methods to develop improved versions of the gene-editing tool. [Read More](#)

Q&A: A Neurologist's Take on the New Chapter for Alzheimer's Care

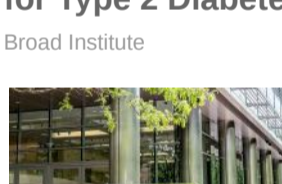
Beth Israel Lahey Health



An estimated 6.7 million adults in the U.S. are diagnosed with Alzheimer's disease, an irreversible, progressive brain disorder that slowly destroys memory, cognitive skills, and eventually the ability to carry out simple tasks. Dr. Chun Lim (*pictured*) discusses how Beth Israel Deaconess Medical Center will be the first MA hospital to provide lecanemab to patients and the importance of the medical milestone. [Read More](#)

New Research Alliance with Novo Nordisk to Identify Therapeutic Targets for Type 2 Diabetes and Cardiometabolic Diseases

Broad Institute



The Broad Institute of MIT and Harvard announced a new research alliance with Novo Nordisk aimed at addressing critical unmet clinical needs in diabetes and cardiometabolic diseases for three programs over the next three years. Two programs aim to identify drug targets for subtypes of type 2 diabetes and one program aims to unravel the genetic roots of cardiac fibrosis. [Read More](#)

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Upcoming Events in Boston

Sept 12 12:00 PM	RegSci Forum "An Inflection Point for High-Quality Diagnostic Tests in Oncology" Online
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 7:30 PM	CANARY Boston Common Theatre
Sept 20 - 21 10:00 AM	BIOMEDevice Boston 2023 Boston Convention and Exhibition Center

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Science Jobs in Boston

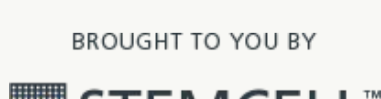
- Scientific Inside Sales Representative, Cell Culture**
STEMCELL Technologies
- Scientist I, *In Vitro* Pharmacology**
UCB
- Program Coordinator, Global Health Delivery**
Harvard Medical School
- Research Technician**
Boston University
- Associate Director/Director, Gene Editing**
Commonwealth Sciences

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