



Publications of the Week

Human Genetics Guides the Discovery of CARD9 Inhibitors with Anti-Inflammatory Activity

First Authors: Jason Rush (*pictured*), Joshua Wertheimer, and Steven Goldberg | Senior Author: Ramnik Xavier Cell | Broad Institute, Massachusetts General Hospital, and Harvard Medical School



A rare truncated variant of the scaffold protein CARD9 is linked with protection from Crohn's disease, urging the development of inhibitors that might similarly modulate innate inflammatory responses. Using a phased approach, researchers first identified a ligandable site on CARD9 using a structurally diverse DNA-encoded library and defined this site in detail through X-ray crystallography.

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

A Genetically Encoded Device for Transcriptome Storage in Mammalian Cells

First Author: Yu-Kai Chao | Senior Author: Fei Chen (*pictured*)
Science | Broad Institute and Harvard University



Understanding how cells make decisions over time requires the ability to link past molecular states to future phenotypic outcomes. Here, researchers present TimeVault, a genetically encoded system that records and stores transcriptions within living mammalian cells for future readout. TimeVault leverages engineered vault particles that capture mRNA through poly(A) binding protein. [Abstract](#)

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Awards

Tufts Vice Provost for Research Named Foreign Fellow of Indian National Science Academy

Tufts Now



Dr. Bernard Arulanandam (*pictured*), Vice Provost for Research and Professor of Immunology at Tufts University, has been named a foreign fellow of the Indian National Science Academy. This honor recognizes his significant contributions to scientific research and his longstanding engagement with international scientific communities. [Read More](#)

Wyss Lumineers Class of 2025 Announced

Wyss Institute



The Wyss Lumineers program celebrates members of our community who choose to take meaningful risks in pursuit of something bigger — translating foundational science, engineering, and lived experience into real-world solutions. Members of the Wyss Lumineers Class of 2025 are Erik Aznauryan, Mark Lipstein, Angelika Fretzen, Darren Yang, Ty Allen, Tal Gilboa, and Kai Chan (*pictured, left to right*). [Read More](#)

MCB Postdoc Surabhi Sreenivas Awarded ADA Fellowship for Type 2 Diabetes Research

Harvard University Department of Molecular and Cellular Biology (MCB)



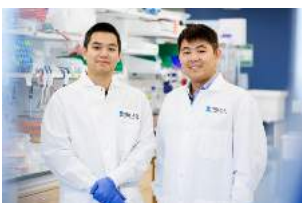
Dr. Surabhi Sreenivas (*pictured*), an MCB Postdoctoral Fellow in the Prigozhin lab, has been awarded a three-year American Diabetes Association (ADA) Postdoctoral Fellowship to study how the liver regulates blood sugar through glucagon signaling. Surabhi is investigating a critical but poorly understood aspect of type 2 diabetes: the role of glucagon in driving excessive glucose production by the liver. [Read More](#)

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Local News

How Did That Cancer Cell Become Drug-Resistant?

The Harvard Gazette



Harvard scientists have invented a way to create a tiny "time capsule" in cells, one that preserves an archival record of gene expression that can be retrieved long after it normally disappears. Dubbed "TimeVault," the new technique was published in *Science* by Drs. Kevin Yu-Kai Chao (*pictured, left*), Fei Chen (*right*), and their team. [Read More](#)

UMass Chan Licenses siRNA Therapy to PLaN Therapeutics

UMass Chan Medical School



Technology developed by pioneering small interfering RNA (siRNA) chemists Drs. Anastasia Khvorova (*pictured, left*) and Hassan Fakh (*right*) has been licensed from UMass Chan by PLaN Therapeutics. The collaboration aims to further develop an allele-specific siRNA-based therapy for the treatment of PLN-R14del genetic cardiomyopathy. Under the agreement, PLaN Therapeutics will retain exclusive rights to the product. [Read More](#)

Clinical Trial Provides New Treatments for Patients with HHT, a Rare Genetic Disorder

Bench Press



Severe and recurrent nosebleeds are one of the most visible and distinct symptoms of a genetic condition known as hereditary hemorrhagic telangiectasia (HHT). This year marked a major milestone in the search for new treatments for HHT. For the first time, a drug specifically designed to treat the condition was tested in a clinical trial, which was co-led by Dr. Hanny Al-Samkari (*pictured*). [Read More](#)

Sourdough Starters Reveal a Recipe for Predicting Microbial Species Survival

Tufts Now



People have long said that "bread is life." Now, researchers including Drs. Lawrence Uricchio (*pictured, right*) with Kasturi Lele (*left*) at Tufts University are using the bubbling mixtures of flour and water known as sourdough starters to explore what shapes life at the microscopic level. Their findings demonstrate a simple way to predict how microbial species will live together, providing insights that could inform baking, food safety, and human health. [Read More](#)

An Interview with Dr. Eric Sun – A Computational Biologist Decoding the Mysteries of Aging

Ragon Institute



The Ragon Institute recently welcomed Dr. Eric Sun (*pictured*), a computational biologist whose research sits at the intersection of machine learning and the biology of aging. Joining Ragon from Stanford University, where he completed his PhD, Dr. Sun brings a uniquely interdisciplinary approach to understanding why and how we age. [Read More](#)

Dr. Richard Hynes, a Pioneer in the Biology of Cellular Adhesion, Dies at 81

MIT News



MIT Professor Emeritus Dr. Richard O. Hynes (*pictured*), a cancer biologist whose discoveries reshaped modern understandings of how cells interact with each other and their environment, passed away on January 6. He was 81. Dr. Hynes is best known for his discovery of integrins, a family of cell-surface receptors essential to cell–cell and cell–matrix adhesion. [Read More](#)

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📅 Upcoming Events in Boston

February 19 7:00 PM	Ending HIV: The Journey to a Vaccine Museum of Science
February 25 1:30 PM	11th Annual Rare Disease Day Event Broad Institute
February 26 7:00 PM	The Collective Cure: Upstream Solutions for Better Public Health Museum of Science
February 28 1:00 PM	SpaceTime TeaTime MIT Museum
March 18 - 19 8:00 AM	OPT Congress 2026 Seaport Hotel Boston

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📁 Science Jobs in Boston

Senior Scientist, Expert in RNA Biology and Rare Neurodevelopmental Diseases Sanofi
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Research Associate II, Center for Human Brain Variation Broad Institute
Senior Scientist, LNP MSAT CRISPR Therapeutics
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