



Jobs Volume 5.44: November 13, 2023

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Publications of the Week

**Events** 

A Bioelectrical Phase Transition Patterns the First Vertebrate Heartbeats

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Nature | Harvard A regular heartbeat is essential to vertebrate life. In the mature heart, this function

First Author: Bill Jia | Senior Author: Adam Cohen (pictured)



is driven by an anatomically localized pacemaker. Using all-optical electrophysiology, researchers captured the very first heartbeat of a zebrafish and analysed the development of cardiac excitability and conduction around this singular event. Abstract | Press Release

### of Solid Tumors in Patients First Author: Rahul Pal | Senior Author: Anand Kumar (pictured) Nature Biomedical Engineering | Massachusetts General Hospital and Harvard Medical School

Fluorescence Lifetime of Injected Indocyanine Green as a Universal Marker

The surgical resection of solid tumors can be enhanced by fluorescence-guided imaging. Here researchers show that, after systemic injection of the near-infrared



dye indocyanine green in patients with various types of solid tumour, the fluorescence lifetime (FLT) of tumor tissue is longer than the FLT of non-cancerous tissue. Abstract | Press Release A Conserved Complex of Microneme Proteins Mediates Rhoptry Discharge

## The European Molecular Biology Organization Journal | The Whitehead Institute and MIT Apicomplexan parasites discharge specialized organelles called rhoptries upon

host cell contact to mediate invasion. The events that drive rhoptry discharge are poorly understood, yet essential to sustain the apicomplexan parasitic life cycle.

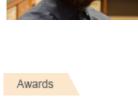


Here, researchers examine the function of the microneme protein CLAMP and demonstrate its essential role in rhoptry discharge. Abstract | Press Release Transcriptional Suppression of Sphingolipid Catabolism Controls Pathogen First Author: Mohamad Nasrallah (pictured) | Senior Author: Read Pukkila-Worley

## Sphingolipids are required for diverse biological functions and are degraded by specific catabolic enzymes. However, the mechanisms that regulate sphingolipid

catabolism are not known. Here, researchers characterize a transcriptional axis that regulates sphingolipid breakdown to control resistance against bacterial

infection. Abstract



View All Publications Dr. Deborah Lang Receives Grant to Examine How Some Genes Are

Dr. Deborah Lang (pictured), Associate Professor of Dermatology, has been

### awarded a two-year, \$300,000 Discovery Boost Grant from the American Cancer Society for her research project "Exploring roles for PAX3 in regulating gene expression on a post transcriptional level." Dr. Lang will investigate the role of PAX3 in stems cells and cancer. Read More



published in journals of the Association. Read More MIT Scientists Receive NIH BRAIN Initiative Grants The National Institutes of Health (NIH) recently announced a new program to

## (pictured, left to right). Read More



Dr. Gregory Petsko (pictured, left), Harvard Medical School Professor of Neurology at Brigham and Women's Hospital, has been awarded a 2022 National Medal of Science. Dr. Petsko and 20 other new National Medal of Science and National Medal of Technology and Innovation laureates received their medals from President Joe Biden (right) in a ceremony at the White House. Read More

Bayer and Broad Institute Extend Cancer Therapy Research Collaboration **Broad Institute** 

Local News

MIT News

Bayer and the Broad Institute of MIT and Harvard have renewed their research alliance, adding five years to a ten-year collaboration that has already yielded three clinical oncology candidates. This research collaboration is aimed at identifying cancer targets and exploring novel therapeutic approaches in oncology with the goal of bringing more medicines to patients. Read More

and innovation within MIT's campus. Read More

economic contribution. Read More

November 16-17 Liquid Biopsy: Beyond Cell-Free Tumor DNA Koch Institute for Integrative Cancer Research

UMass Chan Medical School

🖰 Upcoming Events in Boston

November 14-15 EmTech MIT 2023

MIT Kresge Auditorium

UMass Chan Generates \$2.2 Billion in Economic Activity in Massachusetts UMass Chan Medical School generated more than \$2 billion in economic activity in Massachusetts in 2022, according to the recently released UMass Economic Contribution Analysis report. The report, conducted by the UMass Amherst-based Donahue Institute, is the first post-pandemic analysis of the system's statewide

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MIT. It was part of an initiative led by MIT Latinx professors and students aimed at providing talented Latinx high school students from the greater Boston area and various Latin American countries a unique chance to explore the world of science

# Broad Institute of MIT and Harvard

Rodent Core Histologist Harvard Medical School **Infectious Diseases Basic Scientist** 

Clinical Trial Coordinator CONTRACT-TO-HIRE

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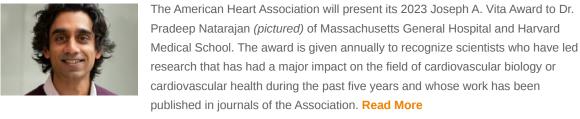
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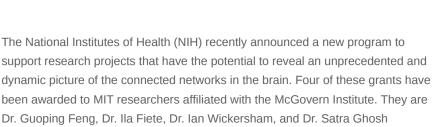
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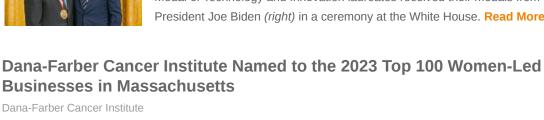












and the Globe Magazine to celebrate the state's leading companies and nonprofits run by women. Read More View All Awards

Dana-Farber Cancer Institute and Dr. Laurie H. Glimcher (pictured), President and

Businesses in Massachusetts. The list is compiled annually by the Women's Edge

CEO of Dana-Farber, are number five on the 2023 Top 100 Women-Led

The Power of Representation and Connectivity in STEM Education In mid-October, an event called Bridging Talents and Opportunities took place at





November 16

9:00 AM

Predoctoral Research Fellow/Research Associate MIT Surgical Science Liaison, Ophthalmology

BlueRock Therapeutics

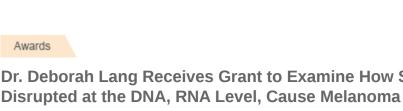
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Submit your articles and events by reaching out to us at <a href="mailto:info@scienceinboston.com">info@scienceinboston.com</a>.

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Interviews and Updates on Stem Cell Science



PLOS Pathogens | University of Massachusetts Chan Medical School



