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Publications of the Week

#### DGKα/ζ Inhibitors Combine with PD-1 Checkpoint Therapy to Promote T Cell-Mediated Antitumor Immunity First Author: Michael Wichroski (pictured) | Senior Author: Emma Lees Science Translational Medicine | Bristol Myers Squibb Company

Programmed cell death protein 1 (PD-1) immune checkpoint blockade therapy has

**Events** 



cell phenotypic high-throughput screening strategy to identify small molecules with distinct and complementary mechanisms of action to PD-1 checkpoint blockade. In the publication profile, Dr. Wichroski shares insights about this study and discusses what he sees for the future of translational medicine. Profile | Abstract Liquid Biopsy Epigenomic Profiling for Cancer Subtyping

revolutionized cancer treatment. Here, researchers designed a human primary T

# and Women's Hospital, Broad Institute, and Harvard Medical School

First Authors: Sylvan Baca (pictured) and Ji-Heui Seo | Senior Author: Matthew Freedman

Although circulating tumor DNA assays are increasingly used to inform clinical decisions in cancer care, they have limited ability to identify the transcriptional

Nature Medicine | Dana-Farber Cancer Institute, Boston Children's Hospital, Massachusetts General Hospital, Brigham



course of disease. To address these limitations, researchers developed a method for comprehensive epigenomic profiling of cancer from 1 ml of patient plasma. **Abstract | Press Release** Global Identification of SWI/SNF Targets Reveals Compensation by EP400 First Author: Benjamin Martin (pictured) | Senior Author: Karen Adelman

programs that govern cancer phenotypes and their dynamic changes during the

#### Mammalian SWI/SNF chromatin remodeling complexes move and evict nucleosomes at gene promoters and enhancers to modulate DNA access. Although SWI/SNF subunits are commonly mutated in disease, therapeutic options are

limited by our inability to predict SWI/SNF gene targets and conflicting studies on

Cell | Harvard Medical School and the Broad Institute



functional significance. Here, researchers leverage a fast-acting inhibitor of SWI/SNF remodeling to elucidate direct targets and effects of SWI/SNF. Abstract View All Publications 😜 Award Honors Dr. Elly Nedivi's Research on Cortical Plasticity

ongoing work to understand molecular and cellular mechanisms that enable the

The Krieg Cortical Kudos Discoverer Award recognizes Dr. Elly Nedivi's (pictured)

The Picower Institute

Awards

### brain to adapt to experience. The Club's award, first bestowed in 1987, honors outstanding established investigators studying the cerebral cortex, the brain's outer layers where circuits of neurons enable functions ranging from sensory processing

Drs. Gene-Wei Li and Michael Birnbaum Named Pew Innovation Fund

to cognition. Read More

**Investigators** 



Harvard Medical School

among the twelve researchers named 2023 Innovation Fund investigators by The Pew Charitable Trusts. The pair will look at transcription termination, a key step in cyanobacteria gene regulation that tells the cell when to stop converting genetic information from DNA to RNA. Read More **Annual Awards Propel Basic Discoveries into Clinic** 

> It could take several decades for a basic discovery to become a new medicine. The Harvard Medical School's Blavatnik Therapeutics Challenge Awards program, now in its fourth year, is designed to optimize this process and help push promising early discoveries toward clinic. The 2023 BTCA grants have been awarded to earlystage discoveries that could eventually result in new therapies. Dr. April Craft

MIT Professors Drs. Gene-Wei Li (pictured, right) and Michael Birnbaum (left) are

## (pictured) is among the 2023 recipients. Read More

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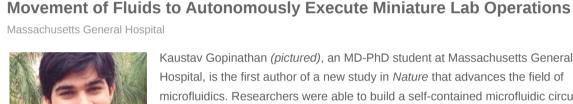
Neurons are talkers. They each communicate with fellow neurons, muscles, or

Cell Reports by neurobiologists at the Picower Institute highlights a molecular mechanism that might help account for the nuanced diversity of neural discourse.

Research Spotlight: Creating Microfluidic Transistors That Control the

other cells by releasing neurotransmitter chemicals at "synapse" junctions, ultimately producing functions ranging from emotions to motions. A new study in

MIT News



Whitehead Institute

Kaustav Gopinathan (pictured), an MD-PhD student at Massachusetts General Hospital, is the first author of a new study in Nature that advances the field of microfluidics. Researchers were able to build a self-contained microfluidic circuit block that could sense, process, and controllably dispense individual particles in an automated fashion, without the use of electronic computers. Read More Maintaining Fertility Requires Uneven Division of DNA

> Germline stem cells are the pool of stem cells capable of becoming eggs or sperm. For a long time, the reason underlying their asymmetric division remained an unanswered question. New research from Whitehead Institute's Dr. Yukiko Yamashita (pictured) shows that asymmetrical division in germline stem cells serves a different but equally important purpose in male *Drosophila melanogaster*.

### Compared with Standard of Care in Patients with Atrial Fibrillation Brigham and Women's Hospital

A New Wave of Treatment for Alzheimer's Disease

TIMI Study Finds New Class of Anti-Clotting Drug Reduced Bleeding Events

fibrillation as part of the AZALEA-TIMI 71 Study. Read More

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MIT News

As the head of the new platforms division at the Centers for Disease Control (CDC) and Prevention, Northeastern graduate Jorge Calzada (pictured) is charged with bringing health data from the era of fax machines into the realm of rapid delivery and analysis. "When a pandemic happens, you go from zero cases a day, or one case a week, to hundreds of thousands," Calzada says. "You can't throw enough people at this problem to handle all this data." Read More

Alzheimer's disease, the appalling and baffling degenerative brain illness that plagues many elderly people, may be caused by several distinct mechanisms driven by various genetic and lifestyle factors, says Dr. Li-Huei Tsai (pictured), Picower Professor of Neuroscience at MIT. To fully understand such conditions, she says, we must study the aging brain as a system rather than focusing on one or

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Atrial fibrillation occurs when an individual's heart beats irregularly. Patients with atrial fibrillation are typically prescribed an anticoagulant, or blood thinner, to reduce the risk of stroke. Researchers from Brigham and Women's Hospital, led by Dr. Christian Ruff (pictured), evaluated a drug that represents a new class of anticoagulants known as Factor XI inhibitors for treating patients with atrial

#### November 20 **Stem Cell Therapies Town Hall** 8:30 AM Boston Children's Hospital

Minisymposium: Deep Learning for Bioimage Analysis

November 27-30 5<sup>th</sup> Annual Gene Therapy Analytical Development

November 28-30 6<sup>th</sup> Lab Asset & Facility Management Summit

two types of ailing cells. Read More

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**Infectious Diseases Basic Scientist** 

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December 1 9:00 AM

岗 Upcoming Events in Boston

Boston Park Plaza

**Broad Institute** 

December 2-6 Cell Bio 2023

The Westin Copley Place

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On-Demand Webinar by Dr. Mara Riminucci

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