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Volume 5 41: October 23, 2023

Publications of the Week

#### Targeting PGLYRP1 Promotes Antitumor Immunity While Inhibiting **Autoimmune Neuroinflammation** First Author: Alexandra Schnell | Senior Author: Vijay Kuchroo (pictured)

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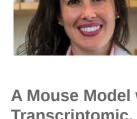
Nature Immunology | Broad Institute, Dana-Farber Cancer Institute, and Brigham and Women's Hospital Co-inhibitory and checkpoint molecules suppress T cell function in the tumor



microenvironment, thereby rendering T cells dysfunctional. Although immune checkpoint blockade is a successful treatment option for multiple human cancers, severe autoimmune-like adverse effects can limit its application. Here, researchers show that the gene encoding peptidoglycan recognition protein 1 (PGLYRP1) might be a promising target for cancer immunotherapy. Abstract A Disordered Region Controls cBAF Activity via Condensation and Partner

### Recruitment First Author: Ajinkya Patil | Senior Author: Cigall Kadoch (pictured) Cell | Dana-Farber Cancer Institute, Harvard Medical School, Brigham and Women's Hospital, and the Broad Institute

Intrinsically disordered regions (IDRs) comprise 37%–50% of the human proteome and are especially enriched in nuclear proteins. Here, researchers identify IDR



a mechanism through which both genomic localization and functional partner recruitment are achieved. Abstract | Press Release A Mouse Model with High Clonal Barcode Diversity for Joint Lineage, Transcriptomic, and Epigenomic Profiling in Single Cells

contributions to chromatin remodeling and explain how phase separation provides

## Cellular lineage histories and their molecular states encode fundamental principles of tissue development and homeostasis. Current lineage-recording mouse models

have insufficient barcode diversity and single-cell lineage coverage for profiling tissues composed of millions of cells. Here, researchers developed DARLIN, an

**National Academy of Medicine** 

First Author: Li Li | Senior Author: Fernando Camargo (pictured) Cell | Boston Children's Hospital and Harvard University



inducible Cas9 barcoding mouse line that utilizes terminal deoxynucleotidyl transferase and 30 CRISPR target sites. Abstract View All Publications 😜 Three Researchers from Massachusetts General Hospital Elected to the

Massachusetts General Hospital researchers Drs. Jeannie Lee (pictured), Maurizio

**STEMCELL**"

in

Massachusetts General Hospital

Awards

#### Fava, and Rudolph Tanzi have been elected as members of the National Academy of Medicine (NAM) for their ongoing contributions to health and medicine and their sought-after expertise and leadership. Election to the NAM is considered one of the

highest honors in health and medicine. Read More

Bradley Bernstein of Dana-Farber Elected to National Academy of Medicine

Dana-Farber Cancer Institute



UMass Chan Medical School

the medical sciences, health care, and public health. Read More Michael Lodato Selected for NIH Director's New Innovator Award Dr. Michael Lodato (pictured), Assistant Professor of Molecular, Cell & Cancer

> Biology, has received a 2023 National Institutes of Health (NIH) Director's New Innovator Award from the NIH Common Fund's High-Risk, High-Reward Research program. Dr. Lodato's project focuses on how DNA damage during life results in permanent changes in the genome in cells of the human body, called somatic

Dr. Ariel Furst (pictured) is the Paul M. Cook Career Development Assistant Professor of Chemical Engineering at MIT. She works at the intersection of biological, electrochemical, and materials engineering to develop equitable technologies to improve human and environmental health. Dr. Furst is one of the

awardees for the NIH Director's New Innovator Award. Read More

Dr. Bradley Bernstein (pictured), Chair of Cancer Biology at Dana-Farber Cancer Institute, has been elected to the National Academy of Medicine (NAM). New members to NAM are elected by current members through a process that

recognizes individuals who have made major contributions to the advancement of

## mutations. Read More

NIH Director's New Innovator Award 2023 Awardees

that. Read More

National Institutes of Health (NIH)



The Harvard Gazette

View All Awards Staying Ahead of Virus Mutations

The COVID-19 pandemic seemed like a never-ending parade of SARS-CoV-2

world bracing for what would come next. But what if there were a way to make predictions about new viral variants before they actually emerge? A new artificial

The youngest of this year's class of MacArthur "genius grant" fellows, Dr. Jason Buenrostro (pictured) was just a graduate student when he pioneered a technique that's become a mainstay for studying how cells regulate gene expression. Now, Dr. Buenrostro discusses about the challenges he faced trying to get a start in biological research, the applications of ATAC-Seq, and the technologies he hopes

intelligence tool developed by researchers at Harvard Medical School can do just

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variants, each equipped with new ways to evade the immune system, leaving the

He Was Named a MacArthur 'Genius' Fellow for Research on Gene

# Regulation, but Still Has Imposter Syndrome

STAT News



Research

**Broad Institute** 

Helping to Fill In Gaps in Urology Research for Female Patients Dr. Nicole De Nisco (pictured) works with postmenopausal women who have been suffering from decades of recurring UTIs. As there was a big gap in the field, entering the field of urology was an opportunity to make new discoveries and find new ways to treat those recurring infections. Dr. De Nisco says she's in the minority, both as a woman studying urology and as someone studying diseases

> In the decade since the Center for Regenerative Medicine (CReM) of Boston University and Boston Medical Center was established by co-founders Dr. Gustavo Mostoslavsky, Dr. Darrell Kotton (pictured), and Dr. George Murphy, there has been a lot of untying of knots on some of the world's most intractable diseases. "We

## have a slogan that reflects our mission - 'Advancing Science to Heal the World," said Kotton. Read More

**#WhylScience Q&A: A Research Scientist Uses Mass Spectrometry to** 

to work on in the future. Read More

that affect female patients. Read More

CReM Celebrates 10<sup>th</sup> Anniversary as Pioneering Center for Stem Cell

**Health Risks** 

**Services** 

MIT Museum

Online

Campus Center Auditorium

2023 Discover Brigham

Brigham & Women's Hospital

**Discover How Metabolites Affect Human Health** 

Boston University Chobanian & Avedisian School of Medicine



10:00 AM

October 23

November 8

November 9

12:00 PM

2:00 PM

2:00 PM

Interesting Articles

The COVID-19 pandemic has taught us many lessons about how not to communicate scientific information to a public audience. Boston University science communication scholars say it's crucial for higher ed institutions to incentivize public outreach efforts. Public trust (or lack thereof) in science plays a pivotal role in our individual and collective responses. Read More

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Sing for Science @ the MIT Museum

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**STEMCELL Science News** 

Inspired at a young age to pursue science, Amy Deik (pictured) moved from the world of botany to genetics to analytical chemistry. In this #WhylScience, Deik speaks about metabolomics and the intersectionality of being a woman of faith and a scientist. "I try to speak about science to people in a way that makes it understandable and therefore less scary," says Deik. Read More

岗 Upcoming Events in Boston Cancer Disparities and Later Life: Aging and the Accumulation of October 23

November 9 **Broad Discovery Series** 6:00 PM Broad Institute & Online

Postdoctoral Associate, Sabeti Lab

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Takeda

**Broad Institute** 

Karuna Therapeutics

Scientist, Discovery Biology Research Support Associate, Belcher Lab

STEMCELL How to Share Lab Duties Effectively

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