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Jobs

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# Pan-Cancer Analysis of Post-translational Modifications Reveals Shared

**Events** 

**Patterns of Protein Regulation** 

Cell | The Broad Institute, MIT, Massachusetts General Hospital, and Harvard Medical School Advances in mass spectrometry enable high-throughput, accurate, and sensitive

First Author: Yifat Geffen | Senior Authors: Francois Aquet, Lewis Cantley, Li Ding, Gad Getz (pictured)



Publications of the Week

their role, prevalence, and crosstalk. Here, they authors analyze the largest collection of proteogenomics data from 1,110 patients with PTM profiles across 11 cancer types. Their study reveals pan-cancer patterns of changes in protein acetylation and phosphorylation involved in hallmark cancer processes. Abstract | **Press Release** 

measurement of post-translational modification (PTM) levels to better understand

Delayed and Attenuated Antibody Responses to Coronavirus Disease 2019 Vaccination with Poor Cross-Variant Neutralization in Solid-Organ

### Transplant Recipients—A Prospective Longitudinal Study First Author: May Liew | Senior Authors: Jacob Lemieux and Marcia Goldberg (pictured) Open Forum Infectious Diseases | The Broad Institute, MIT, Masschusetts General Hospital, and Harvard Medical School Therapeutically immunosuppressed transplant recipients exhibit attenuated

responses to SARS-CoV-2 vaccines. To elucidate the kinetics and variant crossprotection of vaccine-induced antibodies in this population, the authors conducted a



**Boston University Biology** 

prospective longitudinal study in heart and lung transplant recipients receiving the SARS-CoV-2 messenger RNA 3-dose vaccination series. Abstract View All Publications (

pathways to understand how multicellular systems respond to signaling

Pamela Garcia Lopez (pictured) recently received the Kilachand Doctoral

### Fellowship. Her research aims to decipher the rules of cofactor recruitment by transcription factors in mammalian cells. She's particularly interested in the design of synthetic cofactors with the goal of building integrators of endogenous signaling

environments. Read More

Pamela Garcia Lopez Recipient of Kilachand Doctoral Fellowship



passion and to build the experience and skills to succeed. For Taylor Baum (pictured, left), Karla Alejandra Montejo (center), and Josefina Correa Menéndez (right), a pivotal opportunity came via the MIT Summer Research Program in Biology and Neuroscience. Read More View All Awards

in the 2023 Summer Undergraduate Research Program. Adrián Márquez

Doctoral studies at MIT aren't a calling for everyone, but they can be for anyone who has had opportunities to discover that science and technology research is their

Spending 10 weeks of their summer immersed in biomedical research at UMass



Local News

**Diversity at UMass Chan** 

UMass Chan Medical School

# are high-achieving college undergraduates pursuing careers in medicine and science. Read More

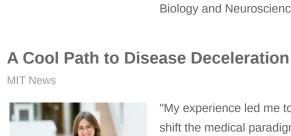
Biology and Neuroscience. Read More

modeling human disease states. Read More

Summer Research Opportunity Can Be a Springboard to Advanced Studies

Summer Undergraduate Research Students Highlight Collaboration,

The Picower Institute



Boston Children's Hospital

"My experience led me to a significant medical problem: How can we eventually shift the medical paradigm to develop treatments that consider not only one specific pathway or problem but contextualize systemic tissue or organ dysfunction?" To engage with this problem, Dr. Kathrin Kajderowicz (pictured) studies animals uniquely adapted to handle different stressors and environments, possibly

immune system was activated despite no apparent infection. Read More

## Al-Powered Arm Band to Detect Opioid Use Disorder, Withdrawals in Development at UMass Chan, URI

UMass Chan Medical School



Dr. Pavana Rotti (pictured) is studying the neurobiology of opioid use disorder. "There have been a lot of studies indicating that changes in the genome are associated with opioid use disorder, but nobody really knows the impact of those changes. How do those genes contribute to opioid use disorder, and what are the cellular mechanisms impacted? That's what I'm trying to understand." Read More

Researchers with Dr. Benjamin Kann (pictured) at Dana-Farber Cancer Institute have found a way to use artificial intelligence (AI) to diagnose muscle wasting, called sarcopenia, in patients with head and neck cancer. Al provides a fast,

National Medicare data was used to characterize the long-term risk of death and hospital readmission after being hospitalized with COVID-19 among beneficiaries 65 years and older. "Since the early days of the pandemic, it has been evident that older adults bear a disproportionate burden of COVID-19 and our study provides several important insights into the longer-term clinical consequences of the disease

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in this vulnerable population," says Dr. Dhruv Kazi (pictured). Read More

The ability to detect if patients are taking their medications for opioid use disorder is the driving force behind a wearable device being developed by Dr. Stephanis Carreiro (pictured) and researchers at UMass Chan Medical School in collaboration with the Wearable Biosensing Lab at the University of Rhode Island (URI). The goal of the device is to help improve medication adherence and prevent overdose

岗 Upcoming Events in Boston August 28 - 29 8:00 AM Sept 7 - 10

7:30 AM

Sept 18 - 21 9:30 AM

Sept 20 - 21

Sept 27 - 30

10:00 AM

6:00 AM

The mRNA Conference 2023 DoubleTree by Hilton Hotel **Hypertension Scientific Sessions 2023** Sheraton Boston Hotel **BioTech Week** Boston Convention and Exhibition Center

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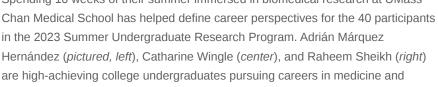
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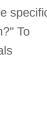
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**Cancer Patients** Dana-Farber Cancer Institute

automated, and accurate assessment that is too time-consuming and error-prone to be made by humans. The tool could be used by doctors to improve treatment and supportive care for patients. Read More Study Reveals Patients Hospitalized with COVID-19 Faced Nearly Twice the Rates of Death After Discharge as Patients with Flu Beth Israel Deaconess Medical Center



Harvard Medical School

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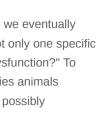
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DADA2: Working Together to Unpack a Rare Mystery Illness When months of fever and weight loss brought Vanessa to Boston Children's emergency room, she was admitted for evaluation and seen by Dr. Pui Lee (pictured), a rheumatology Fellow. He and Rheumatology Program Director Dr. Robert Sundel diagnosed her with periodic fever syndrome — meaning Vanessa's

Doctoral studies at MIT aren't a calling for everyone, but they can be for anyone who has had opportunities to discover that science and technology research is their passion and to build the experience and skills to succeed. For Taylor Baum (pictured, left), Karla Alejandra Montejo (center), and Josefina Correa Menéndez (right), a pivotal opportunity came via the MIT Summer Research Program in





Al-Driven Muscle Mass Assessment Could Improve Care for Head and Neck



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