



Publications of the Week

Eliciting a Single Amino Acid Change by Vaccination Generates Antibody Protection Against Group 1 and Group 2 Influenza A Viruses

First Authors: Rashmi Ray, Faez Amokrane Nait Mohamed, Daniel Maurer, and Jiachen Huang | Senior Authors: Daniel Lingwood (pictured), Aaron Schmidt, and Facundo Batista
Immunity | The Ragon Institute of Mass General, MIT, and Harvard University



Broadly neutralizing antibodies (bnAbs) targeting the hemagglutinin stem of influenza A viruses tend to be effective against either group 1 or group 2 viral diversity. Researchers applied germline-engaging nanoparticle immunogens to elicit a class of cross-group bnAbs from physiological precursor frequency within a humanized mouse model. [Abstract](#)

Dysregulation of Platelet Serotonin, 14-3-3, and GPIX in Sudden Infant Death Syndrome

First Authors: Andrew Frelinger III (pictured) and Robin Haynes | Senior Author: Alan Michelson
Scientific Reports | Dana-Farber, Boston Children's Cancer, and Blood Disorders Center, and Harvard Medical School



A subset of Sudden Infant Death Syndrome (SIDS) infants has abnormalities in the neurotransmitter, serotonin (5-hydroxytryptamine [5-HT]) and the adaptor molecule, 14-3-3 pathways in regions of the brain involved in gasping, response to hypoxia, and arousal. To evaluate the hypothesis that SIDS is a multi-organ dysregulation of 5-HT, researchers examined whether blood platelets are abnormal in SIDS. [Abstract](#) | [Press Release](#)

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Awards

Whitehead Institute Director Dr. Ruth Lehmann Elected as a Fellow of the Royal Society

Whitehead Institute



Whitehead Institute Director and President Dr. Ruth Lehmann (pictured) has been named a Foreign Member of the Royal Society. The election recognizes her "pioneering studies of the mechanisms underlying the embryonic development and reproduction of the fruit fly *Drosophila*." The Fellowship of the Royal Society has been honoring excellence in science for over 360 years. [Read More](#)

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Local News

UMass Chan Postdoctoral Fellows Association Creates Community for International Postdocs

UMass Chan Medical School



Dr. Irina Radu (pictured) is the co-president of the UMass Chan Postdoctoral Association (UMPA). Dr. Radu, a postdoctoral research fellow focused on clinical and translational research in the lab of Dr. Khanh-Van Tran, speaks about the challenges postdocs have faced, how they have navigated them, their plans for the future, and how the UMPA supports them. [Read More](#)

Research Spotlight: Aging Weakens T Cells in the Tumor Microenvironment Making Them Less Effective at Fighting Cancer

Massachusetts General Hospital



Dr. Debattama Sen (pictured), an Assistant Investigator in the Krantz Center for Cancer Research in the Mass General Cancer Center and an Assistant Professor of Medicine at Harvard Medical School, is the corresponding author of a new study in *Nature Immunology*. Dr. Sen discusses the results of the study as well as its clinical implications and next steps. [Read More](#)

Is a Global Pandemic Prevention Pact Within Reach?

Harvard Medical School



The World Health Organization's governing body met on May 27 to discuss a critically needed plan for global pandemic preparedness. The proposed agreement is meant to address some of the most egregious problems the world experienced during the COVID-19 pandemic. Harvard Medical School global health expert Dr. Margaret Bourdeaux discussed the agreement and the meeting with *Harvard Medicine News*. [Read More](#)

A Boost for HIV Vaccine Research

Ragon Institute



HIV has proven a hard target for vaccine design. Researchers at the Ragon Institute have developed a comprehensive platform for HIV vaccine research capable of both preclinically validating next-step boost immunogens and providing new insights into the basic biology of the antibody response. Drs. Xuesong Wang (pictured, left) and Zhenfei Xie (right) published a recent suite of papers on this research. [Read More](#)

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Interesting Articles

NIH Modifies Application and Review Process for Fellowship Grants to Broaden Scientific Trainee Pool

National Institutes of Health (NIH)



The NIH is revising the application and peer review process for grants that enable external institutions to recruit for research training fellowships. The revised approach for peer review of fellowship applications is designed to enhance participation from strong applicants at smaller schools, mentors relatively early in their careers, and well-qualified students with less-conventional academic backgrounds. [Read More](#)

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Upcoming Events in Boston

June 5 3:00 PM	Origin Stories: How Broad's Earliest Days Sparked Two Decades of Innovation Online
June 6 11:30 AM	Lunch & Learn: Blood Fixation and Cell Isolation for Chromium Fixed RNA Profiling STEMCELL Technologies
June 8 9:00 AM	Consortium for Health Innovation Partnerships MGH Institute of Health Professions
June 10 8:30 AM	Lighting Up Neurobiology with Antibodies Marshall A. Wolf Conference Center
June 10 - 11 12:30 PM	Generative AI in Medical Research & Drug Development: Hype or Reality? Northeastern University

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Science Jobs in Boston

- Medical Science Liaison, gMG Rare Disease**
Amgen
- Staff Scientist I**
Beth Israel Deaconess Medical Center
- Senior Manager, Clinical Project Lead**
AstraZeneca
- Scientist II or Senior Scientist, Immunology**
Kymera
- Senior Scientist, RNA Science**
Moderna

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