



Publications of the Week

Bioresorbable RFID Capsule for Assessing Medication Adherence

First Authors: Mehmet Girayhan Say (*pictured, left*) Siheng Sean You | Senior Author: Giovanni Traverso (*right*)
Nature Communications | Brigham and Women's Hospital, Harvard Medical School, Broad Institute, and MIT



Researchers have developed SAFARI (Smart Adherence via FARaday cage And Resorbable Ingestible), a bioresorbable, passive RFID system that enables precise monitoring of medication ingestion events. SAFARI incorporates a novel cellulose–metal particle–based radiofrequency shielding layer, effectively creating a Faraday cage that facilitates reliable signal detection. [Profile](#) | [Abstract](#)

Microbiota-Mediated Induction of Beige Adipocytes in Response to Dietary Cues

First Authors: Takeshi Tanoue, Manabu Nagayama, Ayumi Roochana, and Samuel Zimmerman (*pictured*) | Senior Author: Kenya Honda
Nature | Broad Institute, Massachusetts General Hospital, and Harvard Medical School



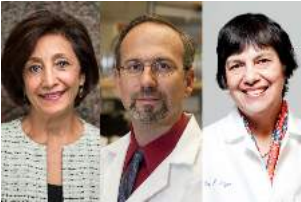
Interactions between diet and the gut microbiota are fundamental to metabolic health, shaping energy balance and disease susceptibility. However, the underlying mechanisms by which dietary and microbial factors converge to regulate host physiology remain unclear. Here, researchers show that protein availability profoundly modulates the functional landscape of the gut microbiota and promotes remodelling of white adipose tissue. [Abstract](#) | [Press Release](#)

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Awards

Three Tufts Researchers Named Senior Members of the National Academy of Inventors

Tufts Now



Three Tufts researchers have been named as senior members of the National Academy of Inventors, an honor for academic inventors who are rising leaders in their respective fields and who have produced technologies that seek to make a positive impact on society. The newly named senior members are Drs. Simin Nikbin Meydani, Bruce Kristal, and Athena Papas (*pictured, left to right*). [Read More](#)

Dr. Cathy Wu Joins Global Cancer Grand Challenges Team Taking on the Dark Proteome

Dana-Farber Cancer Institute



A global, interdisciplinary team of researchers including Dana-Farber's Dr. Catherine (Cathy) Wu (*pictured*) have been selected to receive a Cancer Grand Challenges award of up to \$25m over five years to tackle the dark proteome challenge. Cancer Grand Challenges is a global research initiative that identifies the toughest challenges in cancer research. [Read More](#)

Whitehead Member Dr. Jonathan Weissman Joins Global Cancer Grand Challenges team

Whitehead Institute



Whitehead Institute Member Dr. Jonathan Weissman (*pictured*) has been named to a newly funded Cancer Grand Challenges team that will tackle one of the most elusive frontiers in cancer biology: the "dark proteome." This project will investigate proteins expressed by cancer cells that don't correspond exactly to known genes, including proteins produced from previously unrecognized regions of the genome. [Read More](#)

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Local News

Researchers Identify Specific Protein and Sugar Molecules Affected by Aging, Disease

Boston University Chobanian & Avedisian School of Medicine



A new study led by Dr. Manveen Sethi (*pictured*) elucidates how the brain changes with aging and with diseases such as Alzheimer's disease in the presence or absence of Lewy body pathology at a highly detailed molecular level. Understanding these changes is important because they begin years before symptoms such as memory loss or movement problems appear. [Read More](#)

Dana-Farber Research Uncovers Approach to Activating the Immune System Against Metastatic Breast Cancer

Dana-Farber Cancer Institute



New research focused on triple negative breast cancer from Dr. Judith Agudo's (*pictured*) lab has uncovered a potential way to stave off metastases by activating the immune system against tumor cells that have traveled to distant organs. Dr. Agudo and colleagues invented and used a novel tool called Jedi to locate tumor cells that have spread and evaded attack by the immune system in animal models. [Read More](#)

Targeting a Dangerous Gut Infection

Tufts Now



Affecting roughly half a million Americans each year, bacterial infections caused by *Clostridioides difficile* (*C. diff*) are a serious and persistent problem for patients and hospitals alike. Dr. Aimee Shen's (*pictured*) team are studying *C. diff* at multiple levels, from how individual bacterial cells behave inside the gut to the molecular switches that help them survive and spread. [Read More](#)

Can Evolutionary Medicine Alleviate Age-Related Disparities in Disease Outcomes?

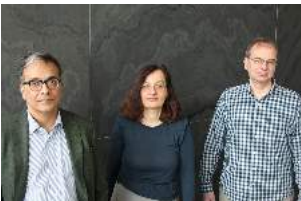
Harvard University



What doesn't kill you makes you stronger—or does it? Scientists studying how age alters the immune response have shown that the same mechanisms our bodies use to successfully combat threats like infections in our youth may conversely weaken us with age. To investigate this, young and old mice were infected with a heavy dose of bacterial pathogens to determine the factors promoting host survival in each age group. [Read More](#)

Two PNAS Papers From the Samuel Lab Illuminate the Bacterial Flagellar Motor

Harvard University Department of Molecular and Cellular Biology



Two new papers published in *PNAS* from Drs. Aravi Samuel, Alina Vrabioiu, and Gabriel Hosu (*pictured, left to right*) shine fresh light on one of biology's most iconic molecular machines, the bacterial flagellar motor. Although the two studies examine different facets of this rotary nanomachine, they share a common goal: advancing understanding of how bacteria convert molecular-scale signals into motion. [Read More](#)

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📅 Upcoming Events in Boston

March 18 8:00 AM	OPT Congress 2026 Seaport Hotel Boston
March 26 8:00 AM	Cell & Gene Therapy Summit Marriott Boston Cambridge
March 31 8:00 AM	23rd Annual Strategic Alliance Management Congress Aloft Boston Seaport District
April 17 9:00 AM	2026 Annual Microbiome Symposium Schwarzman College of Computing
April 25 8:00 AM	NOVA 2026 Harvard University

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🏢 Science Jobs in Boston

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- Research Lab Tech I, Genetics**
Brigham and Women's Hospital
- Associate Scientist**
Sanofi
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