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Volume 5.28: July 24, 2023

Publications of the Week

Human Oral Lectin ZG16B Acts as a Cell Wall Polysaccharide Probe to **Decode Host-Microbe Interactions with Oral Commensals** First Author: Soumi Ghosh | Senior Authors: Laura Kiessling and Barbara Imperiali (pictured)

The authors developed a microbial glycan analysis probe from a predominant oral



interrogate the interactions of ZG16B. ZG16B binds to commensal bacteria including Streptococcus vestibularis through cell surface glycoconjugates and regulates its growth. Abstract | Press Release

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Cell Reports | Massachusetts General Hospital and Harvard Medical School



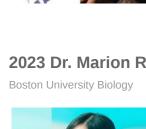
cancer cells induce AMHR2 expression during their reprogramming into CAMCs in mouse and human in vitro models. Abstract | Press Release View All Publications 😜

Boston University Biology

Awards

Denton Award for her master's research thesis in Molecular Biology, Cell Biology, and Biochemistry titled "Mode of Substrate Binding and Specificity for

So Young Bae Receives 2023 Denton Award



is given for excellence in scholarship and research accomplishment during a master's thesis. Read More 2023 Dr. Marion R. Kramer Scholarship Winners The three recipients of this year's Dr. Marion R. Kramer Scholarships are Hannah

Axten, Alanna Carey, and Yuan Tian (pictured). Hannah studies a member of the

forkhead box family of transcription factors, FOXR1, and its role in

Ketohexokinase across Isozymes Implies an Induced-Fit Mechanism." This award

neurodevelopment. Alanna's research project aims to gain an understanding of the neurobiology of individual differences. Yuan's research focuses on Autism Spectrum Disorder associated with the overexpression of Ube3A. Read More



View All Awards New Center will Evaluate, Accelerate Technology to Reduce Suicide

> The nearly \$17 million National Institute of Mental Health (NIMH)-funded Center for Accelerating Practices to End Suicide through Technology Translation includes a



(pictured). Read More

How Building Resiliency in Young Adults Could Help Address a Mental

Health Crisis



mental health. Read More **How Tau Tangles Form in the Brain** Many neurodegenerative diseases, including Alzheimer's, are characterized by tangled proteins called Tau fibrils. In a new study, MIT chemists with Dr. Mei Hong

> (pictured) have gained insight into how these fibrils form, and identified a potential target for drugs that could interfere with this formation. They discovered that one

the fibrils take on a variety of different shapes. Read More

According to the National Institute of Mental Health, nearly one in ten youth in the

Brigham Researchers Engineer Nanostructures to Enhance the Immune

MIT Chemistry



Boston Children's Hospital

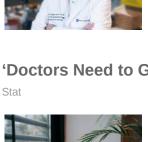
Although potentially revolutionary, there remain critical hurdles to overcome before stimulator of interferon genes (STING) agonism can be employed as treatment option for patients. Dr. Natalie Artzi (pictured) and investigators have now designed stimuli-responsive nanoparticle structures, allowing STING agonist drugs to be released when reaching the target cells. Read More Seeking a Path Forward for Custom Genetic Treatments

> Languishing from Batten disease, a rare, fatal neurodegenerative disorder, 7-yearold Mila Makovec received an antisense oligonucleotide drug designed to silence her genetic mutation, injected into the fluid around her spine through a lumbar puncture in 2018. A team led by Dr. Timothy Yu (pictured) created the drug within the space of a year — a first in medicine. It was dubbed milasen. Read More

Colitis

said Dr. Adam Rodman. Read More

18th SCCT Annual Scientific Meeting



'Doctors Need to Get on Top of This': GPT-4 Displays Bias in Medical Tasks Healthcare leaders already rushing to deploy GPT-4 should slow down and proceed with caution. When the tool was asked to drum up likely diagnoses, or come up with a patient case study, it in some cases produced problematic, biased results. "GPT-4, being trained off of our own textual communication, shows the

same — or maybe even more exaggerated — racial and sex biases as humans,"

Alongside gasoline engine exhaust and radiofrequency waves from cell phones, aspartame, the sweetener found in diet sodas and many sugar-free foods, is now categorized as "possibly carcinogenic". Dr. Timothy R. Rebbeck (pictured) was asked to put the categorization into perspective when it comes to everyday choices

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like, should you have that diet soda...or not? Read More

thought to be in short supply in ulcerative colitis. "The current therapeutic arsenal for ulcerative colitis is grossly inadequate; more than half of patients do not go into long-term sustained remission," says Dr. Scott Snapper (pictured). Read More

July 26 - 28 3rd mRNA-Based Therapeutics Summit 1:00 PM The Westin Boston Seaport District

岗 Upcoming Events in Boston

Aug 7 7:30 AM

Harvard Medical School

Immuno-Oncology Summit 2023 Seaport Hotel

Environmental, Health and Safety Specialist

Hynes Convention Center

BioC2023: the Bioconductor Annual Conference Dana-Farber Cancer Institute & Online The Annual Chemistry and Pharmacology of Drug Abuse Conference Sheraton Boston Hotel

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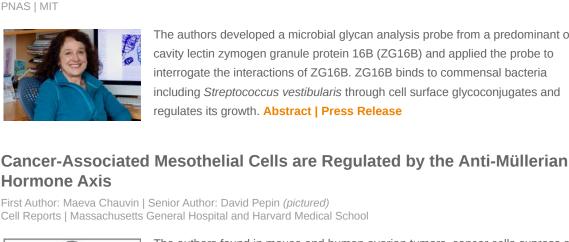
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The authors found in mouse and human ovarian tumors, cancer cells express anti-Müllerian hormone (AMH) while cancer-associated mesothelial cells (CAMCs) express its receptor AMHR2, suggesting a paracrine axis. Factors secreted by

So Young Bae (pictured) of the Tolan Lab was selected as the winner of the 2023

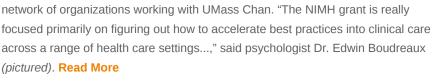












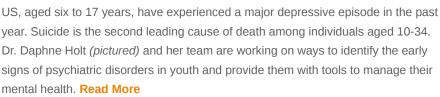


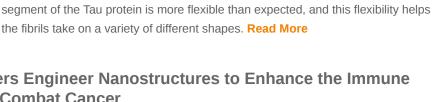














Dana-Farber Cancer Institute

Aspartame: What You Need to Know



Broad Institute

July 27 - 30

August 2 - 4 8:00 AM

12:00 PM

Aug 3

9:00 AM