

GNIPST LIFE-SCIENCE BULLETIN

VOLUME 2, ISSUE 4

2025

FEATURING





Message from Director's Office

Our commitment to excellence in learning, discovery, and engagement remains steadfast. At Guru Nanak Institute of Pharmaceutical Science and Technology, we are dedicated to providing our students with a solid foundation that blends core principles with practical, real-world applications. By embracing innovative educational technologies and diverse teaching methodologies, we prepare our students to thrive in a rapidly evolving world.

We take immense pride in the GNIPST Bulletin, which continues to serve as a vibrant platform for showcasing our achievements, updates, and initiatives. I encourage all readers to stay connected and actively engage with the bulletin. Your involvement and feedback inspire us to aim higher and accomplish even more.



Prof. (Dr.) Abhijit Sengupta

Message from Principal's Office

Warm greetings from the Department of Life Science at Guru Nanak Institute of Pharmaceutical Science and Technology! As one of the premier educational institutions in West Bengal, we take pride in offering state-of-the-art facilities, hands-on learning experiences, and outstanding internship opportunities. Our commitment lies in empowering students to excel in their careers and personal journeys, guided by strong ethical values.

With the launch of the first issue of Volume 2 of the GNIPST Bulletin, we invite you to continue engaging with this platform. The bulletin captures the spirit of our vibrant community, celebrating achievements, sharing updates, and highlighting inspiring stories. Your ongoing support and active participation motivate us to aim higher and reach new milestones. Together, let's make this year one of remarkable accomplishments!

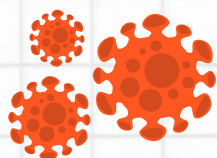


Prof. (Dr.) Lopamudra Datta



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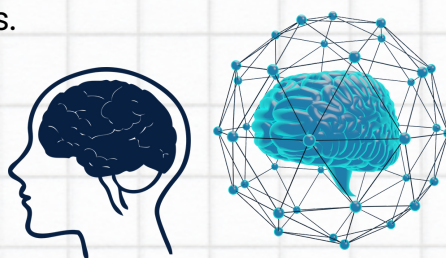
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The Science Update

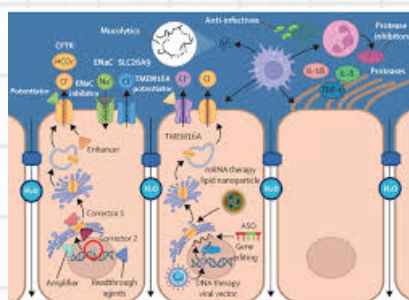
Breakthrough in Nanoparticle-Based Brain Therapy

Researchers at Oregon State University have developed dual peptide-functionalized polymeric nanocarriers that successfully cross the blood-brain barrier to deliver anti-inflammatory IRAK4 inhibitors to the hypothalamus in mice. This targeted therapy significantly improved treatment outcomes for cancer cachexia, a condition causing severe weight and muscle loss. The approach resulted in a 94% increase in food intake and better retention of body weight and muscle mass, offering promise for treating other neurological disorders like Alzheimer's and Parkinson's diseases.



To know more : <https://www.sciencedaily.com/releases/2025/04/250409115422.htm>

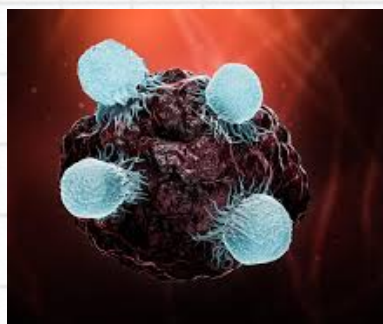
AI-Driven Gene Therapies for Rare Cystic Fibrosis Mutations



Efforts are underway to develop "mutation agnostic" gene therapies for cystic fibrosis (CF) patients with rare mutations not addressed by current treatments. Organizations like Emily's Entourage are fundraising to support the development of therapies that introduce a correct version of the defective CFTR gene, regardless of the specific mutation. With 14 gene therapies in the pipeline, including one in a clinical trial at Columbia University, there is cautious optimism among patients and researchers.

To know more : <https://pmc.ncbi.nlm.nih.gov/articles/PMC11614307/>

Advancements in CAR-T Cell Therapy in India



India has launched its first homegrown CAR-T cell therapy, NexCAR19, developed through a collaboration between academia and industry. This therapy is designed to treat B-cell lymphomas and B-acute lymphoblastic leukemia in patients aged 15 and older. NexCAR19 represents a significant advancement in making advanced cancer treatments more accessible and affordable.



To know more : <https://www.cancer.gov/news-events/cancer-currents-blog/2024/nexcar19-car-t-cell-therapy-india-nci-collaboration>



The Campus Pulse

Event Spotlight



Get Set Talk – Episode 5 featuring students of GNIPST! 🎤💙

A must-watch for students embracing the beauty of College Life! Tune in to the conversation of Classes, Career and Crushes! 💙



Get Set Talk – Episode 5



Intra-College Quiz Competition on Recent Advances in Biological and Pharmaceutical Research



Parent-Teachers' Meeting at GNIPST



Industrial Visit of B.Sc Students at Diamond Beverage Pvt. Ltd.



Farewell of Batch 2025

Essay Writing Competition Results!

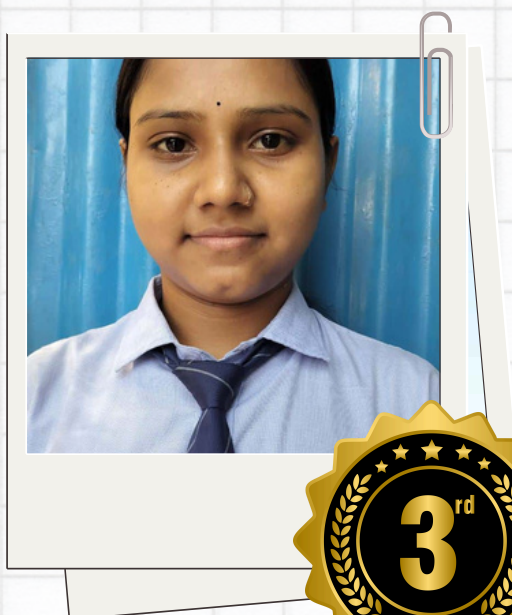
Bengali Division!



Sribanti Ganguly
(B. Sc. Microbiology 2nd year)



Oishi Ghosh
(B. Sc. Genetics 2nd year)



Sagarika Karan
(BMLT 1st year)



Essay Writing Competition Results!

English Division!



Srijita Biswas

(B. Sc. Biotechnology 1st year)



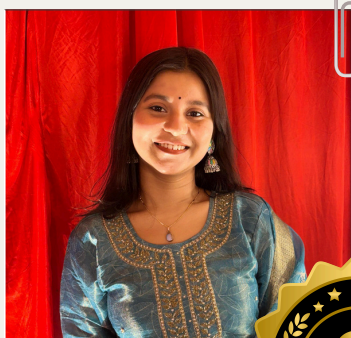
Debaleena Chatterjee

(B. Sc. Microbiology 2nd year)



Triporna Mondal

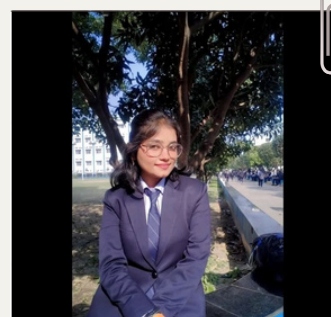
(B. Sc. Genetics 1st year)



Hindi Division

Simran gupta

BMLT 1st year



Special Mention!



Activity Corner

Ambedkar Jayanti : April 14th

Ambedkar Jayanti is celebrated on 14th April to honor Dr. B. R. Ambedkar, the chief architect of the Indian Constitution and a champion of social justice and equality. It marks his efforts to fight against caste discrimination and promote human rights. The day is observed with tributes, **Subheading** knowledge to uphold his vision of liberty, equality, and fraternity.

Word Scramble

RACSTE → _____

LAIQUYTI → _____

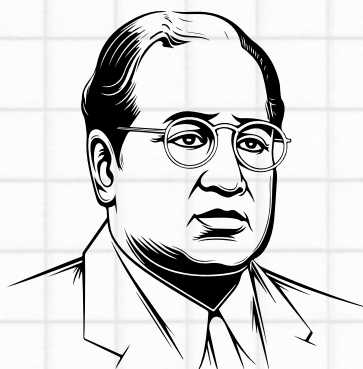
STITCNOIUTON → _____

VARESRTNIOA → _____

HDRBAIMAKE → _____

Did you know?

Dr. B. R. Ambedkar was the first Indian to pursue a doctorate in economics from Columbia University, USA — and he later earned multiple doctorates from prestigious universities around the world!



Submit **your** answers :



Stay tuned for a **shout out** to the correct answers in the next edition!

Answer Key



Vaccination Word Scramble

Instructions: Unscramble the words related to vaccination

NETAVIACC → VACCINATE

SINMUE → IMMUNE

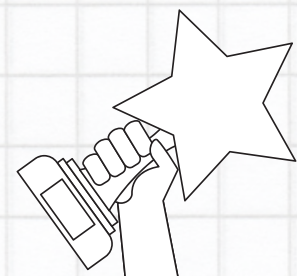
HTPEAITIS → HEPATITIS

COVNIAACNTI → VACCINATION

**Shoutout to the “Activity Corner” winner of
Volume 2, Issue 3!**



Alimpon Bhaduri



Guru Nanak Institute of Pharmaceutical Science and Technology, BMLT

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Life Science UG Courses

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- B.Sc in Microbiology
- B.Sc in Genetics
- B.Sc in Medical Lab Technology
- BBA in Hospital Management



Life Science PG Courses

- M.Sc in Biotechnology
- M.Sc in Microbiology
- M.Sc in Genetics
- M.Sc in Medical Lab Technology

"The best is yet to come. Here's to a year of new beginnings and limitless possibilities!"

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