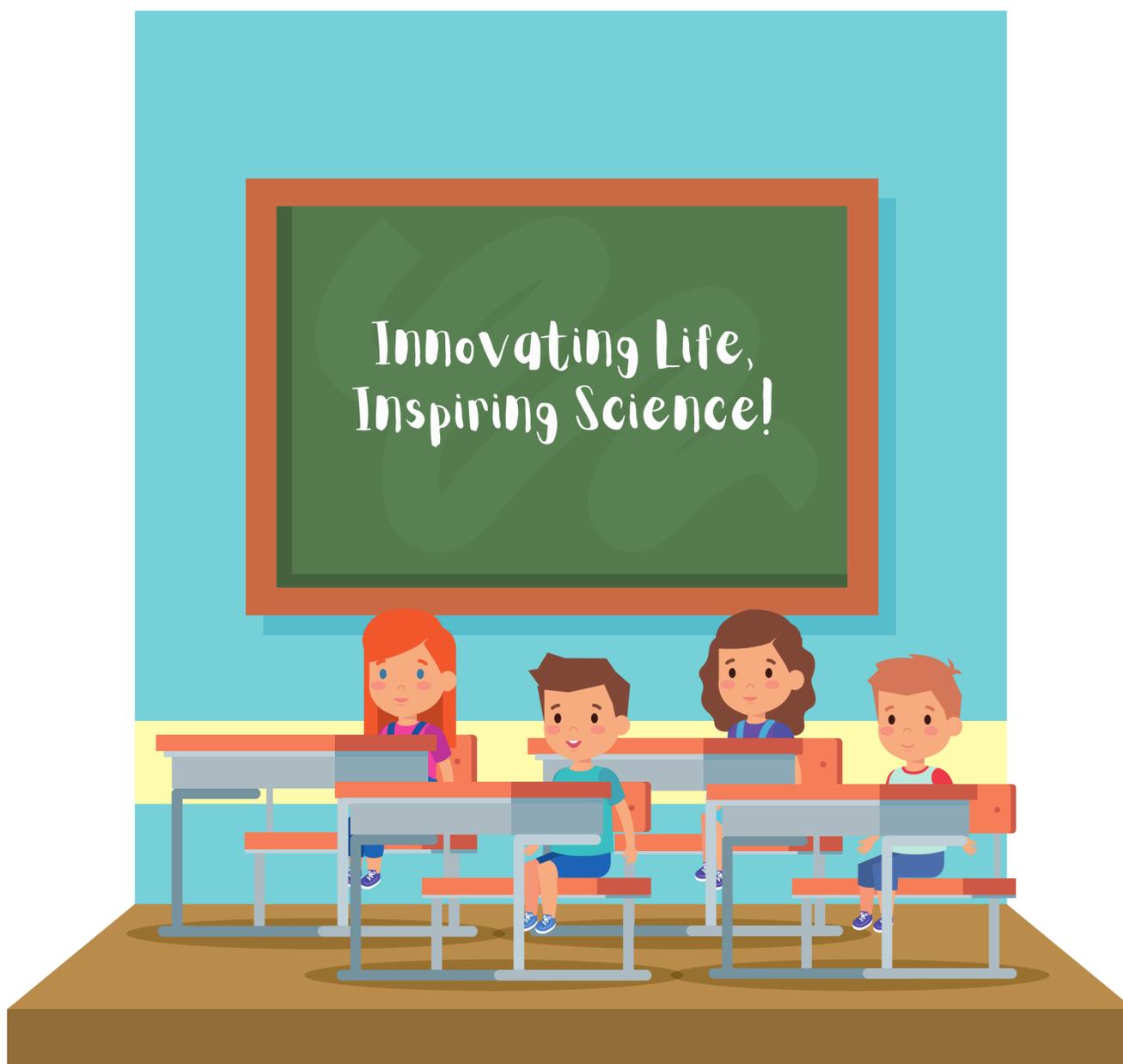


# GNIPST BULLETIN LIFE-SCIENCE



**Guru Nanak Institute of Pharmaceutical Science and Technology**

**Volume 3 Issue 2**



**Welcome to our monthly Digital Science Archive!**

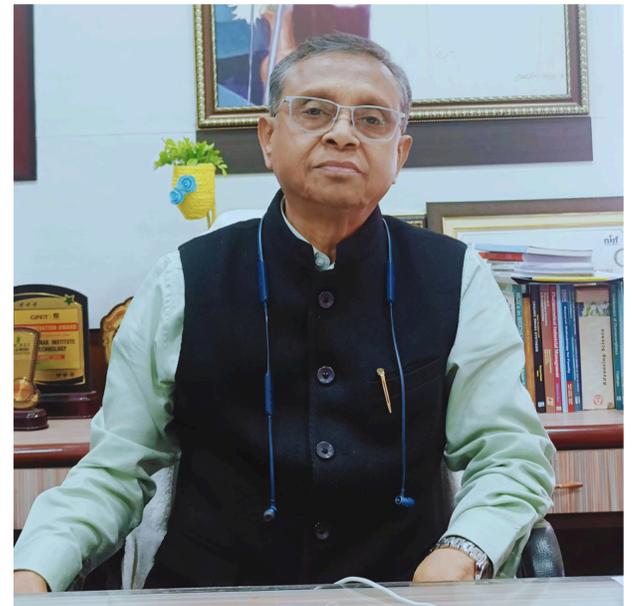




# IN REFLECTION AND VISION

## The Director's Note

It is with great pride that we present Volume 3, Issue 2 of the GNIPST Bulletin, a vibrant reflection of our collective academic spirit and scientific inquiry. At Guru Nanak Institute of Pharmaceutical Science and Technology, we remain committed to fostering a culture of excellence through a blend of rigorous academics, practical exposure, and innovative thinking. The life sciences are rapidly evolving, and our students and faculty continue to contribute meaningfully to this dynamic field. This bulletin highlights achievements, new initiatives, and the creative energy that drives GNIPST forward. I encourage everyone to stay connected, engaged, and inspired as we continue this shared journey of growth and discovery.



Dr. Abhijit Sengupta

## The Principal's Note



Dr. Lopamudra Datta

We are delighted to present Volume 3, Issue 2 of the GNIPST Bulletin – Life Science, marking the beginning of a new chapter in our journey of academic excellence, research, and innovation. As one of the leading institutions in West Bengal, GNIPST remains committed to providing advanced laboratory facilities, practical learning experiences, and industry-relevant internships. We continue to nurture our students with a strong foundation in scientific knowledge, ethical values, and critical thinking. Thank you for your ongoing support and enthusiasm. We look forward to bringing you many more stories of achievement, growth, and inspiration in the issues ahead. Stay connected—our journey has only just begun!



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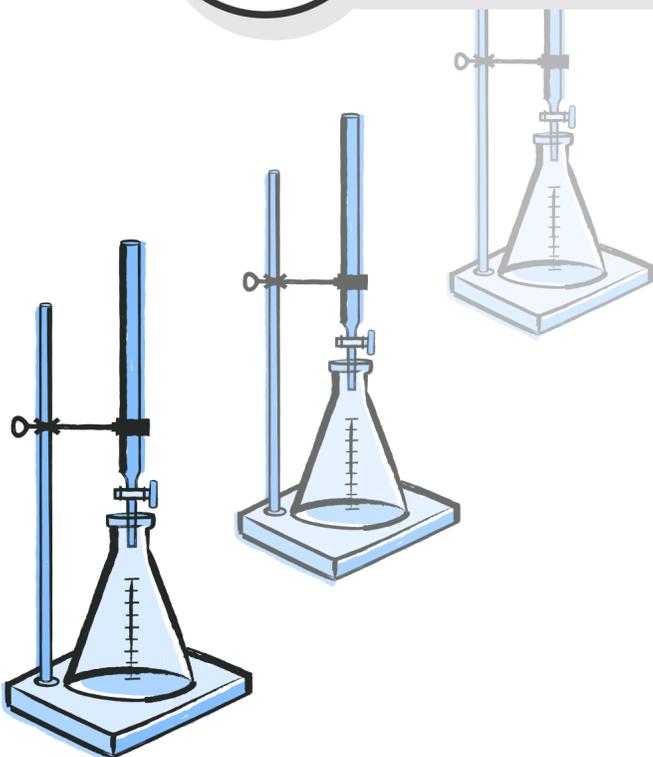
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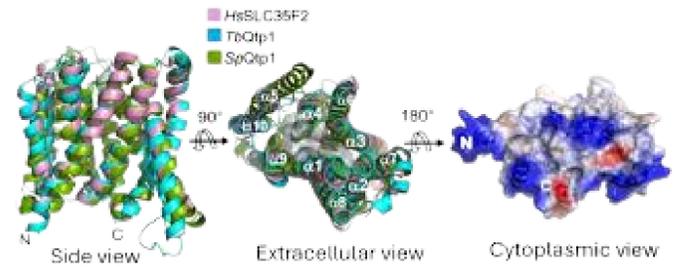




# SCIENCE UPDATE

## Breakthrough in 30-Year Micronutrient Mystery: Queuosine Uptake Gene Identified

Scientists from Trinity College Dublin and University of Florida identified the gene responsible for queuosine uptake, a rare micronutrient essential for metabolism, brain function, and cancer suppression.



Read More : [Breakthrough in 30-Year Micronutrient Mystery](#)

Read More : <https://bioengineer.org/breakthrough-in-30-year-micronutrient-mystery-paves-way-for-innovative-medical-research>

## Synthetic Microbiome Therapy Suppresses Bacterial Infection Without Antibiotics

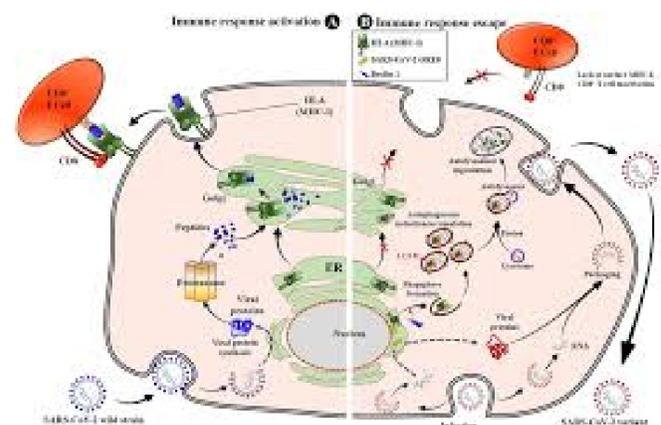


Researchers at Penn State developed a synthetic microbiome mix that works as effectively as fecal transplants in suppressing *Clostridioides difficile* by competing for nutrients like proline, offering a safer therapy option.

Read More : (<https://www.sciencedaily.com/releases/2025/03/250303141255.htm>)

## Discovery of a New Phase in T-Cell Activation Cycle

Immunologists uncovered a two-phase activation process for CD8+ T-cells, including a “desensitization and re-priming” stage, reshaping our understanding of immunity against chronic infections and cancer.



Read More : (<https://medicalxpress.com/news/2025-04-discovery-immune-response-phase-upends.htm>)



# THE CAMPUS PULSE

## 20<sup>th</sup> Foundation Day Celebration of GNIPST!



**Kirtan and Ardas**

**Flashback Frames**



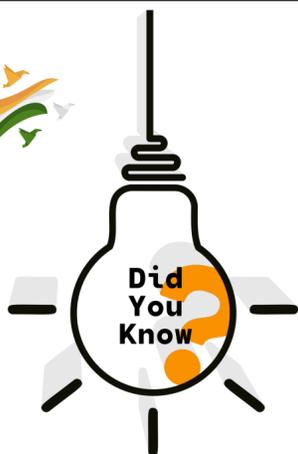
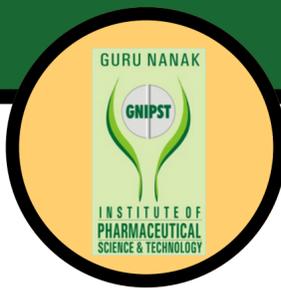
**Visit to renovated Acharya Prafulla Chandra  
Advanced Research Laboratory, GNIPST**

**Painting Exhibition**

## Student Induction Program - Life Science!



**From 18th-22<sup>nd</sup> September 2025 Student Induction Program was held with more than 20 Sessionson for the First Year Students for welcoming them to this new chapter of life!**



## ACTIVITY CORNER

Independence Day is celebrated on August 15th in India, marking the nation's freedom from British rule in 1947 after a long struggle led by countless freedom fighters. On this day, the Prime Minister hoists the national flag at the Red Fort in Delhi, followed by a speech addressing the country's progress and future aspirations. Across the nation, schools, colleges, and communities celebrate with flag hoisting, cultural programs, and patriotic songs. Independence Day serves as a reminder of the sacrifices made for liberty and the responsibility each citizen carries to uphold unity, democracy, and progress for the nation.



### WORD SCRAMBLE CHALLENGE: CELEBRATING INDEPENDENCE DAY!

YMOACDERC →

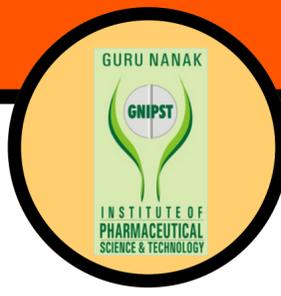
TRAPITOMIS →

ORCULOTIR →

REOSHE →



Fastest correct entry wins a shoutout in our next bulletin!



## ANSWER KEY (VOLUME 3 ISSUE 1)

- AALAML YAD → MALAYALAM DAY
- OIUDETCNA → EDUCATION
- AOPCE → PEACE
- GEAILTYQU → EQUALITY

**SHOUT OUT TO THE “ACTIVITY CORNER’ WINNER OF  
VOLUME 3 ISSUE 1**



**Koyel Das, Guru Nanak Institute of Pharmaceutical Science and  
Technology, BBA(HM)**



# Editorial Board

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## COURSES OFFERED

### *Life Science UG Courses*

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

### *Life Science PG Courses*

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



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