

GNIPST BULLETIN LIFE-SCIENCE

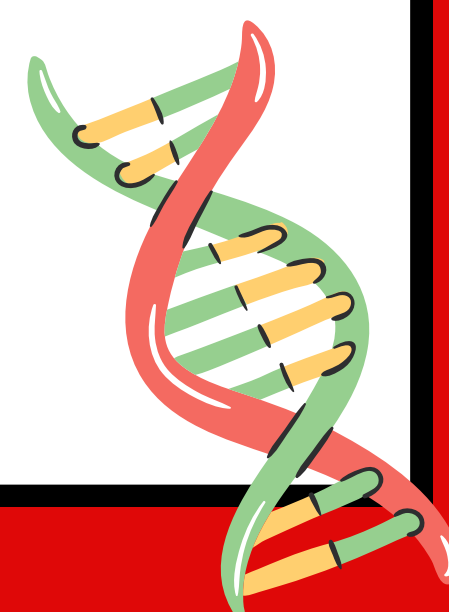
Guru Nanak Institute of Pharmaceutical Science and Technology

Volume 3 Issue 6



Innovating Life, Inspiring Science!

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 6 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. We extend our warmest regards to all readers and well-wishers. May this edition inspire continued learning, collaboration, and progress as we collectively strive toward growth, discovery, and success.



Dr. Abhijit Sengupta

The Principal's Note



Dr. Lopamudra Datta

We are delighted to present Volume 3, Issue 6 of the GNIPST Bulletin – Life Science, showcasing the continued journey of our commitment to academic excellence, research, and innovation. As one of the leading institutions in West Bengal, GNIPST remains dedicated to providing advanced laboratory facilities, practical learning experiences, and industry-relevant internships, while nurturing our students with a strong foundation in scientific knowledge, ethical values, and critical thinking.

We extend our warm regards to all our readers, contributors, and well-wishers. Your continued support and enthusiasm encourage us to strive for excellence and to keep advancing in our mission of education, discovery, and service. We look forward to sharing many more stories of achievement, growth, and inspiration in the issues ahead.



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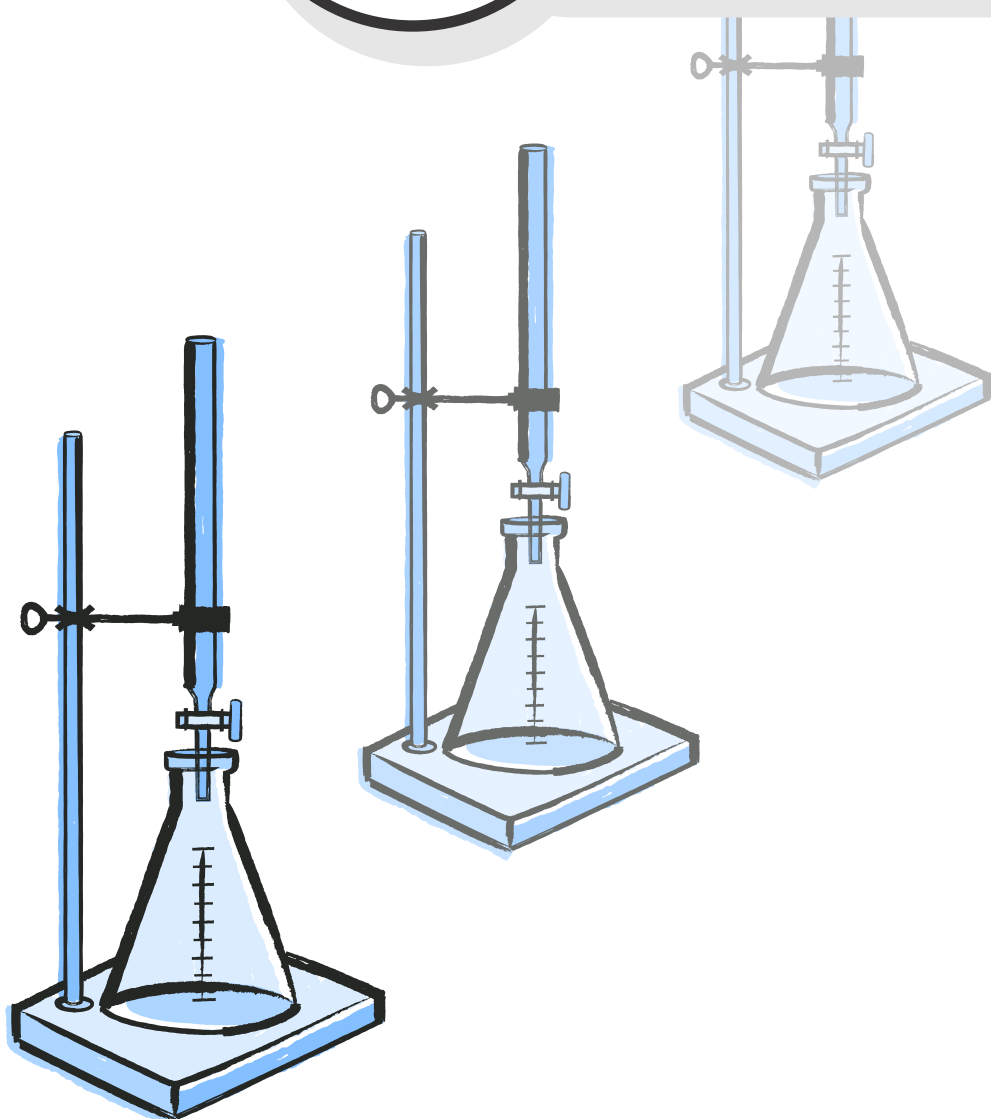
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SCIENCE UPDATE

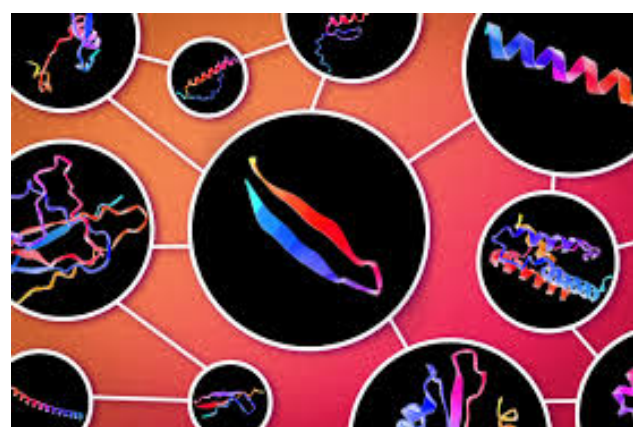
Human egg rejuvenation offers new hope for IVF success

Scientists have demonstrated that aging human eggs can be partially “rejuvenated” by restoring proteins essential for chromosome stability, particularly Shugoshin-1. This breakthrough addresses one of the major causes of infertility in older women—chromosomal mis-segregation during meiosis. The findings suggest that targeted molecular interventions could significantly increase IVF success rates and reduce miscarriage risks, representing a transformative advance in reproductive and developmental biology.



Read More : <https://www.theguardian.com/science/2026/jan/09/human-eggs-rejuvenated-in-advance-that-could-boost-ivf-success-rates>

Generative AI predicts protein structure and function simultaneously

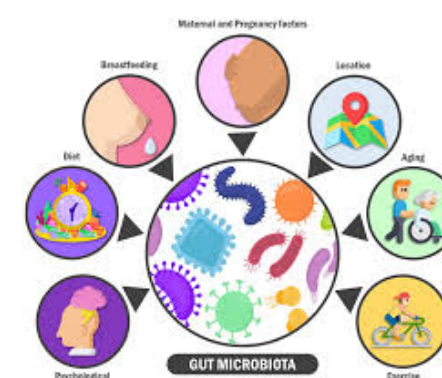


A new generative AI model has demonstrated the ability to predict protein structure, stability, and function in a single framework. Unlike earlier tools that focused only on structure, this model enables researchers to design functional proteins for enzymes, therapeutics, and vaccines. This marks a major leap in computational biology and protein engineering.

Read More : <https://news.stanford.edu/stories/2025/02/generative-ai-tool-marks-a-milestone-in-biology-and-accelerates-the-future-of-life-sciences>

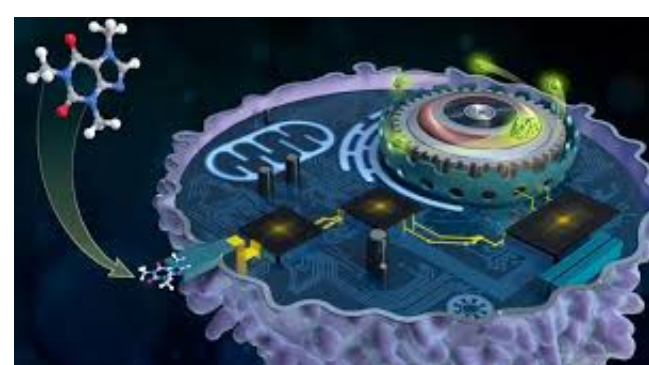
Gut microbiome linked directly to immune aging

Large-scale studies reveal that age-related changes in gut microbiota directly influence immune decline. Modulating gut bacteria could slow immune aging and improve responses to infections and vaccines in elderly populations.



Read More : <https://www.sciencedaily.com/releases/2025/02/250220094501.htm>

Synthetic biology creates programmable living sensors



Scientists have engineered bacteria that can detect environmental toxins and disease biomarkers and report them through visible signals. These living biosensors have applications in public health monitoring and diagnostics.

Read More : <https://www.nature.com/articles/s41587-0https://www.nature.com/articles/s41587-024-02411-3>



THE CAMPUS PULSE



GNIPST students showcased exceptional talent at JIS SPIRIT 2026, excelling across dance, music, drama, fashion show, recitation, quiz, and debate, with proud wins in photography, painting, and anchoring—an outstanding overall performance!



CONFERENCE THEME

- Translational Medicine and Clinical Research
- Advances in Pharmaceutical Sciences and Drug Development
- Innovations in Healthcare Technologies and Diagnostics
- Regulatory Sciences, Quality Assurance, and Compliance
- Biotechnology, Biopharmaceuticals, and Precision Medicine
- Natural Products, Herbal Medicines, and Traditional Systems
- Public Health, Pharmacovigilance, and Healthcare Policy
- Artificial Intelligence and Data Science in Healthcare

GUIDELINES FOR ABSTRACT SUBMISSION

Deadline: January 15, 2026

- Format: MS word in ".doc" or ".docx" Max 250 words
- Title - 12 FONT SIZE, TIMES NEW ROMAN, NORMAL, BOLD - IN UPPERCASE ONLY
- Authors - 12 FONT SIZE, TIMES NEW ROMAN, NORMAL, BOLD - IN UPPERCASE ONLY. Please do not add prefix like Dr, Mr, Professor, Associate Professor etc.
- Keywords: 3-10 include
- Structure required: Objective, Methods, Results, and Conclusion.
- Selected abstracts will be published as conference proceedings in scopus indexed journal.

REGISTRATION DETAILS

Category	Early Bird Registration Up to January 15, 2026	Up to January 30, 2026
Delegates (Student)	Rs. 2000	Rs. 2500
Other Delegates (Faculty/ Industry)	Rs. 2500	Rs. 3000
Foreign Delegates (Student)	USD 100	USD 150
Other Foreign Delegates	USD 150	USD 200

PAYMENT DETAILS

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- IFSC Code: SBIN0016642
- Branch Name: GNCC
- Account Type: Current

For queries Contact
Dr. Sumana Roy (9932867684),
Ms. Prapti Chakraborty (8902364980)
gnipstconference@gmail.com

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REGISTER NOW
Last Date Extended
18 January, 2026
For Abstract submission and registration

GUIDELINES FOR ABSTRACT SUBMISSION

Deadline: January 18, 2026

- Format: MS word in ".doc" or ".docx" Max 250 words
- Title - 12 FONT SIZE, TIMES NEW ROMAN, NORMAL, BOLD - IN UPPERCASE ONLY
- Authors - 12 FONT SIZE, TIMES NEW ROMAN, NORMAL, BOLD - IN UPPERCASE ONLY. Please do not add prefix like Dr, Mr, Professor, Associate Professor etc.
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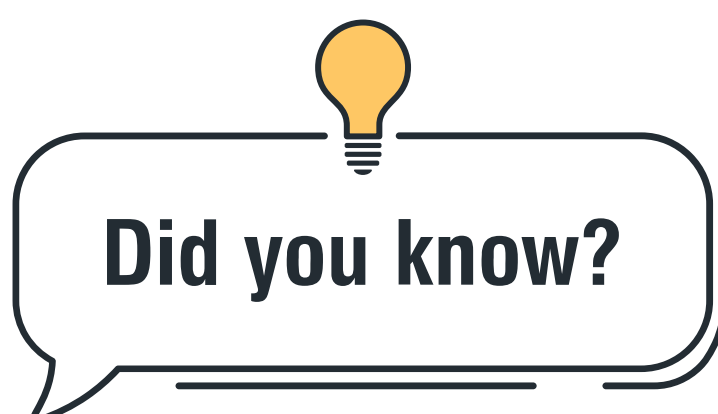
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ACTIVITY CORNER

National Pollution Control Day, observed on 2nd December, serves as a solemn reminder of the urgent need to protect our environment from pollution and its harmful effects on human health and ecosystems. The day commemorates the victims of the Bhopal Gas Tragedy and emphasizes the importance of responsible industrial practices, environmental regulations, and public awareness. It encourages individuals, institutions, and industries to adopt sustainable habits, reduce emissions, manage waste responsibly, and work collectively towards cleaner air, water, and soil. Observing this day reinforces our shared responsibility to safeguard the environment for present and future generations.



The Bhopal Gas Tragedy, which occurred on the night of 2–3 December 1984, is considered one of the world's worst industrial disasters. A leak of the highly toxic gas methyl isocyanate (MIC) from the Union Carbide pesticide plant exposed thousands of people while they slept, causing immediate deaths and long-term health problems.

WORD SCRAMBLE CHALLENGE: !

NOITULLIP →
TNEMNORIVNE →
YLIBATSUS →
NOITAVRESNOC →



Fastest correct entry wins a shoutout in our next bulletin!



ANSWER KEY (VOLUME 3 ISSUE 5)

- NISLUNI → INSULIN
- EGSLUCO → GLUCOSE
- RSENAWESSA → AWARENESS
- HCEKCUP → CHECKUP

SHOUT OUT TO THE “ACTIVITY CORNER’ WINNER OF VOLUME 3 ISSUE 5



Pitam Kulavi, Guru Nanak Institute of Pharmaceutical Science and
Technology, B.Sc Biotechnology



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Life Science UG Courses

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

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