

GNIPST BULLETIN

LIFE-SCIENCE

VOLUME 4 ISSUE 1



Quote of the Month

I've always been interested in science - one of my favourite books is James Watson's 'Molecular Biology of the Gene.'

-Bill Gates



IN REFLECTION AND VISION

The Director's Note

It is with great pride that we present Volume 4, Issue 1 of the GNIPST Bulletin, a vibrant reflection of our collective academic spirit and scientific inquiry. At Guru Nanak Institute of Pharmaceutical Science and Technology- Life Science, 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 4, Issue 1 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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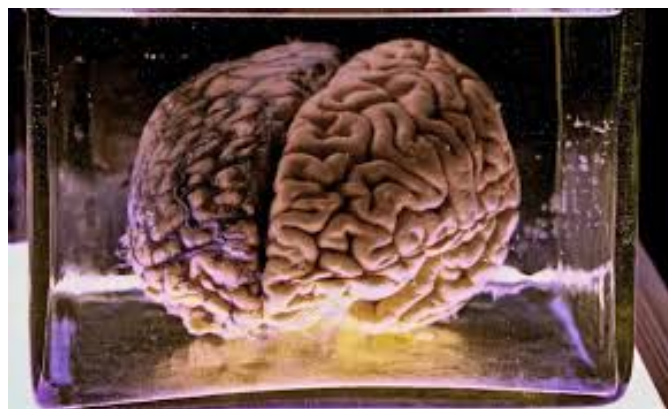
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Editorial Board



SCIENCE UPDATE

Scientists Successfully Revive Brain Activity After Cryogenic Freezing



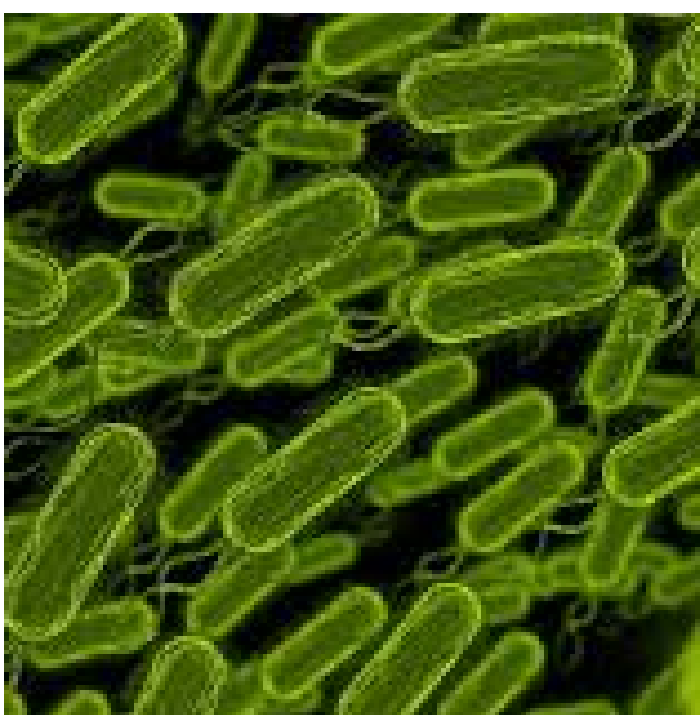
In a remarkable breakthrough, researchers have managed to freeze and later revive mouse brain tissue while preserving key biological functions. Using a technique called vitrification, brain samples were cooled to extremely low temperatures without forming damaging ice crystals and later restored with intact cellular structures and electrical activity linked to memory. Although the revived tissue remained viable only for a few hours, this advancement could revolutionize organ preservation, improve stroke treatment, and open new possibilities in neuroscience and transplantation medicine.

Scientists Successfully Revive Brain Activity After Cryogenic Freezing

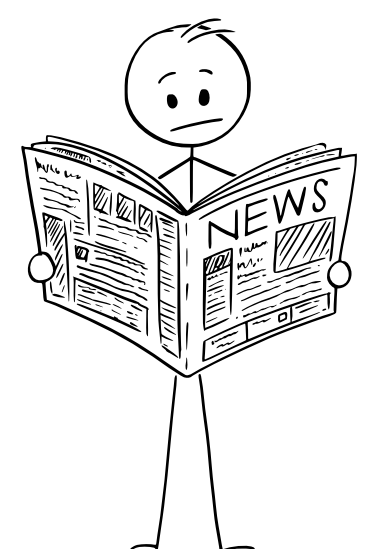
In a pioneering example of personalized medicine, a custom-designed mRNA vaccine significantly reduced a dog's tumor by about 50%. Scientists used AI tools and genomic sequencing to identify cancer mutations and create a targeted therapy. This approach highlights the future potential of individualized cancer treatments for both animals and humans.



Scientists Use Extremophiles to Unlock New Medical Innovations



Researchers are exploring extremophiles—organisms that survive in extreme environments—for their unique biochemical properties. These organisms possess highly stable enzymes and DNA repair systems that could revolutionize medicine, biotechnology, and climate resilience. Their study is also helping scientists understand early life on Earth and develop new industrial applications.





CAMPUS PULSE



Saraswati Puja was celebrated in the college on 23rd January with active participation from students. Faculty members visited multiple schools as judges for the “Sera School-er Saraswati” idol competition as part of an outreach initiative. Students also organized a Scientific Model Exhibition themed on Saraswati Puja, showcasing creativity and innovation.



Saraswati Puja Celebration – 23rd January



Our Students at Kolkata International Book Fair 2026



In January, GNIPST organized the JIS Innovation Award and the Intra-College JIS Samman to recognize excellence in Sports, Academics, Research, and Cultural activities. The initiative celebrated the achievements and talents of students, encouraging holistic development and innovation.

JIS Awards in the month of January





ACTIVITY CORNER

World Leprosy Eradication Day : 30th January

World Leprosy Eradication Day is observed on the last Sunday of January each year to raise awareness about Leprosy, a chronic infectious disease caused by Mycobacterium leprae that primarily affects the skin and peripheral nerves. The day highlights that leprosy is completely curable with multi-drug therapy (MDT) and emphasizes the importance of early diagnosis to prevent disabilities. It also aims to eliminate the social stigma and discrimination faced by affected individuals, promoting inclusion, dignity, and equal opportunities. In India, the occasion aligns with Anti-Leprosy Day on 30th January, honoring Mahatma Gandhi for his efforts toward the welfare of people affected by the disease.

Scrambled Words



PMAOREELTCYOBIACMRU →

NLUEANRMGTOAOUS →

SHETAEGINASE →

YHPRREELIPAOPNYUT →

MDLITURUGRYPETAH →

NIOIMMTYU →

TSOHOACMRGEASAC →



To Submit Your Answers!



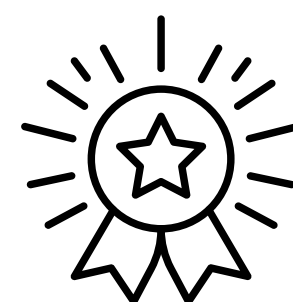
ANSWER KEY (VOLUME 3 ISSUE 6)

CPEETACNAC → Acceptance
IVSTYREID → Diversity
INOTICLUS → Inclusion
DGEOWLENK → Knowledge
TSNERHGTH → Strength

SHOUT OUT TO THE WINNER OF ACTIVITY CORNER OF VOLUME 2 ISSUE 6



Chayan Deb, BBA(HM)





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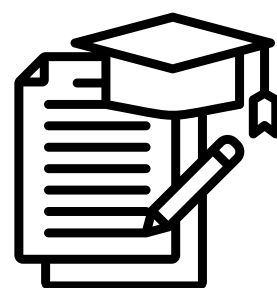
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COURSES OFFERED

Life Science UG Courses

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