

GNIPST BULLETIN

LIFE-SCIENCE

VOLUME 4 ISSUE 6



Quote of the Month

"Research is what I'm doing when I don't know what I'm doing."
— Wernher von Braun

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IN REFLECTION AND VISION

The Director's Note

It is with great pride that we present Volume 4, 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- 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 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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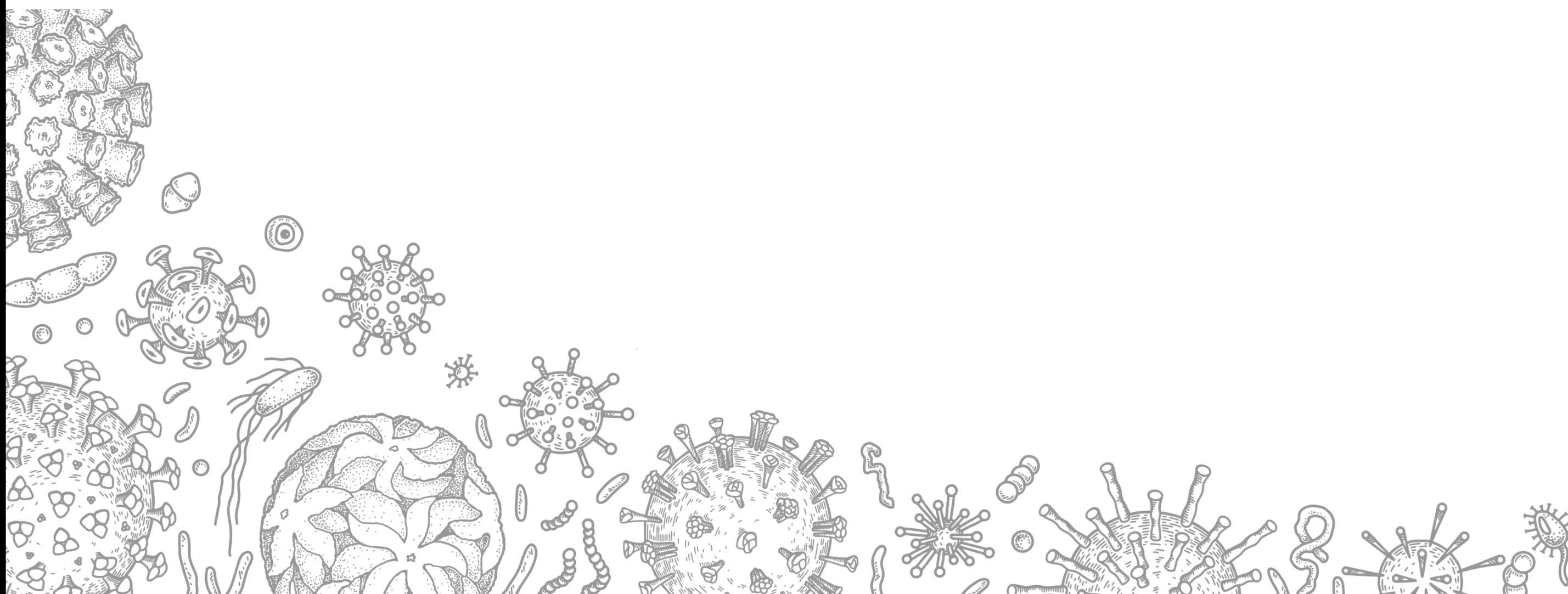
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SCIENCE UPDATE

First Pig Kidney Successfully Transplanted into a Living Human



Researchers have reached a historic milestone in transplantation medicine by successfully transplanting a genetically modified pig kidney into a living human. Scientists removed specific pig genes responsible for triggering immune rejection and introduced human-compatible genes to improve transplant success. The transplanted kidney functioned normally, demonstrating that xenotransplantation could become a practical solution to the global shortage of donor organs. This breakthrough may significantly reduce waiting times for patients suffering from end-stage kidney disease and pave the way for future transplantation of other organs such as the heart and liver.

[Click and Read More](#)

Gene Therapy Restores Hearing in Children with Genetic Deafness

Researchers have successfully restored hearing in children born with inherited deafness using gene therapy. The treatment delivers a healthy copy of the defective gene directly into the sensory cells of the inner ear using viral vectors. Within weeks, several children experienced significant improvements in hearing and speech perception. This breakthrough demonstrates the enormous potential of gene therapy for treating inherited sensory disorders and offers hope for developing similar treatments for blindness and other genetic conditions.



[Click and Read more](#)

Artificial Womb Research Supports De-Extinction EffortsSelf-Reproducing Synthetic Cells Demonstrate Darwinian Evolution



Scientists at Harvard University have achieved a remarkable breakthrough in synthetic biology by creating artificial cell-like structures from non-living chemical components that can self-replicate and undergo Darwinian evolution. These synthetic cells generate copies of themselves, and over successive generations, random variations arise that allow some populations to reproduce more efficiently than others. This observation closely resembles natural selection, providing valuable insight into how life may have originated from simple chemical systems on the early Earth. Beyond understanding the origin of life, these programmable synthetic cells may eventually be used in targeted drug delivery, biosensing, environmental monitoring, and industrial biotechnology.

[Click and Read more](#)



CAMPUS PULSE



GNIPST in JIS Education EXPO 2026- Kolkata Edition



GNIPST Successfully conducted one month internship for external students on Bioinformatics and Microbiology.



ACTIVITY CORNER

World Environment Day - June 5

World Environment Day, celebrated every year on 5th June, is one of the largest global environmental awareness campaigns organized by the United Nations Environment Programme (UNEP). Established in 1972 during the Stockholm Conference on the Human Environment, the day aims to encourage individuals, communities, organizations, and governments to take positive action for protecting the environment. Every year, World Environment Day is observed with a specific theme focusing on pressing environmental challenges such as climate change, plastic pollution, biodiversity conservation, ecosystem restoration, and sustainable living. Activities including tree plantation drives, clean-up campaigns, awareness rallies, educational programs, and community initiatives are organized worldwide to promote environmental responsibility. The observance serves as a reminder that protecting natural resources, reducing pollution, conserving biodiversity, and adopting sustainable practices are essential for ensuring a healthier planet and a better future for present and future generations.

Scrambled Words

NEMRONIENV T →
STABISNALIUTYI →
ECRYOSMETS →
ODRTASEEFITNRO →
OIEFDARAGDN →

**CLICK
HERE**

To Submit Your Answers!



ANSWER KEY (VOLUME 4 ISSUE 3)

NIOEXNCTTI → EXTINCTION
SETPEICIAON → SPECIATION
NOEVRCSAITON → CONSERVATION
DIBOEVRSTY → BIODIVERSITY
RAEGFATNTMION → FRAGMENTATION

SHOUT OUT TO THE WINNER OF ACTIVITY CORNER OF VOLUME 4 ISSUE 5



Bidisha Sarkar, B.Sc Microbiology

Guru Nanak Institute of Pharmaceutical Science and Technology



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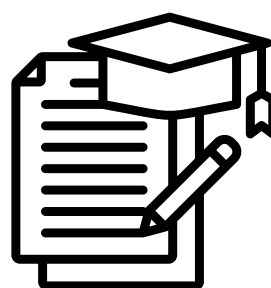
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COURSES OFFERED

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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