

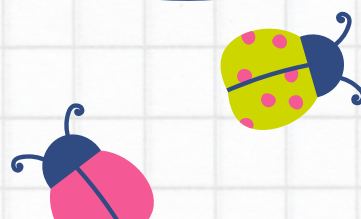
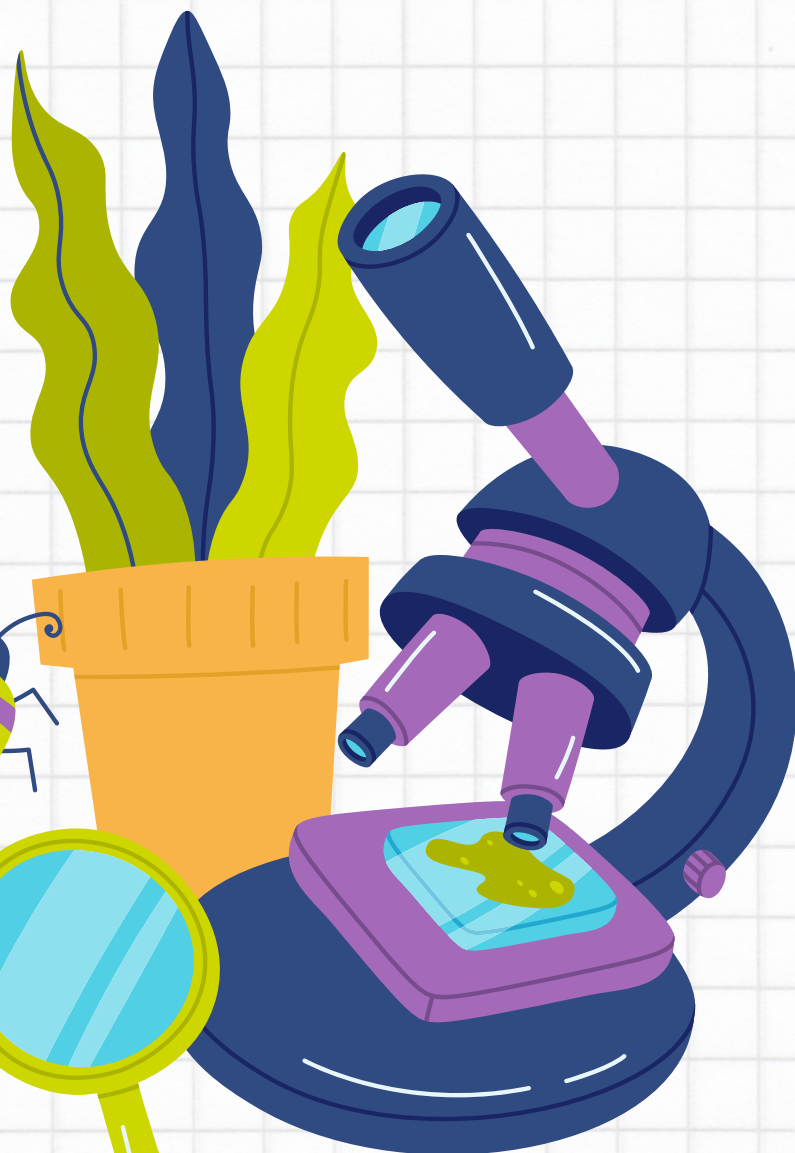
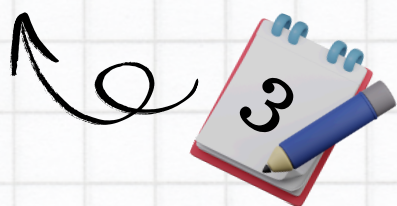
GNIPST LIFE-SCIENCE BULLETIN

VOLUME 2, ISSUE 1

2025

FEATURING

Taltala High School





Message from Director's Office

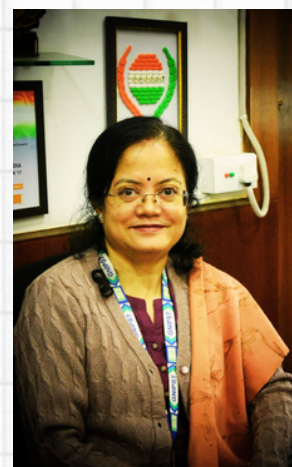
As we step into 2025, our commitment to excellence in learning, discovery, and engagement remains steadfast. At Guru Nanak Institute of Pharmaceutical Science and Technology, we continually strive to provide our students with a robust foundation that integrates core principles with practical applications. By embracing innovative educational technologies and diverse teaching methodologies, we prepare our students to meet the demands of a rapidly evolving world. We take immense pride in the GNIPST Bulletin, which serves as a platform to showcase our achievements, updates, and initiatives. I encourage all readers to stay connected and continue engaging with the bulletin to. Your involvement and feedback inspire us to aim higher and achieve more.



Prof. (Dr.) Abhijit Sengupta

Message from Principal's Office

Warm greetings from Guru Nanak Institute of Pharmaceutical Science and Technology, Department of Life Science! As one of the leading educational institutions in West Bengal, we offer state-of-the-art facilities, hands-on experience, and exceptional internship opportunities. We are committed to empowering our students to achieve excellence in their careers and personal lives, guided by strong ethical principles. As we publish the first issue of Volume 2 of the GNIPST Bulletin, we invite you to keep engaging with this platform. The bulletin is a reflection of our vibrant community, highlighting key achievements, updates, and inspiring stories. Your continued support and participation drive us to push boundaries and achieve new milestones. Together, let's make 2025 a year of remarkable accomplishments!



Prof. (Dr.) Lopamudra Datta



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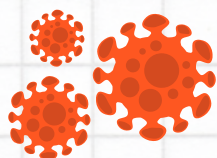
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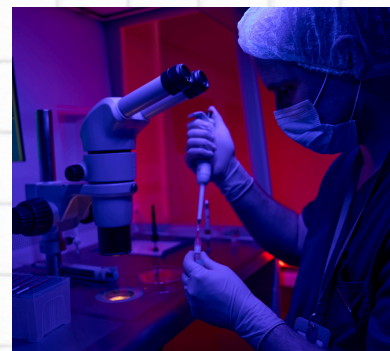
The Science Update

Did you know?

Truveta initiates to Build the World's Largest Genetic Database



On January 13, 2025, Truveta, a medical data research company in Washington announced a \$320 million funding deal to construct the world's largest genetic database. Investors include Regeneron Pharmaceuticals, contributing \$120 million, Illumina with a \$20 million investment, and 17 U.S. health systems providing the remaining funds. The project aims to gather 10 million genomic sequences to advance drug discovery and improve patient care by identifying genetic predispositions and disease mutations effectively. This initiative is expected to surpass existing genetic databases in scale and diversity.



To know more : <https://www.reuters.com/markets/deals/truveta-sells-stakes-regeneron-illumina-deal-build-genetic-database-2025-01-13/>

Discovery of Antimicrobial Proteins in Oysters

Researchers in Australia have identified a protein in the haemolymph (the oyster's blood equivalent) of the Sydney rock oyster that exhibits potent antibacterial properties. This protein has been effective against pathogens such as *Streptococcus pneumoniae* and *Streptococcus pyogenes*, which cause pneumonia and strep throat, respectively. Additionally, it enhances the efficacy of antibiotics against *Staphylococcus aureus* and *Pseudomonas aeruginosa*, known to infect immunocompromised individuals. This discovery offers a promising avenue in combating antimicrobial resistance.

Australian oysters' blood could hold key to fighting drug-resistant superbugs, researchers find

Protein found in Sydney rock oysters' haemolymph can kill bacteria and boost some antibiotics' effectiveness, scientists discover

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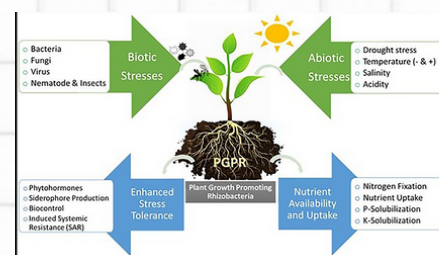


To know more : <https://www.theguardian.com/science/2025/jan/21/australia-sydney-rock-oyster-blood-drug-resistant-superbug-bacteria-antibiotics>

India Develops Climate-Resilient Crops Amid Warming Climate



In response to climate change challenges, Indian agricultural scientists have developed climate-resilient seed varieties that offer better yields with less water and enhanced disease resistance. These efforts aim to sustain agricultural productivity amidst increasing temperatures and unpredictable rainfall patterns.



To know more : <https://apnews.com/article/climate-change-resilient-seeds-agriculture-india-drought-rains-587cf822c3000072584ba58562d2a321>



The Campus Pulse

Faculty Spotlight



GNIPST is thrilled to share that our very own Dr. Bhaskar Chowdhury, a distinguished faculty member, has contributed an insightful speech on the Scope of Biotechnology in Research and Higher Studies to the renowned newspaper Ajkal Sopan.

Heartfelt Congratulations to Dr. Tamalika Chakraborty, Assistant Professor in the Department of Life-Science, GNIPST for being awarded PhD in the discipline of Biotechnology.

Moments of Merriment at GNIPST



Despite the demands of exams and busy schedules, the faculties of GNIPST carved out a moment to celebrate and share joy together.

Ongoing and Upcoming Events at GNIPST



For More Information : www.gnipst.ac.in



School Showcase

Featuring : Taltala High School (HS)

An Institution with a Philosophy

55 S.N.Banerjee Rd located in the heart of Kolkata is the address of Taltala High School which was established in 1910. With time it turned into a luminous institution presenting Bengal with students like Prof.Hirendranath Mukhopadhyay, Dr.Nirodh C.Chaudhury, Prof.Rejaul Karim and so on. A school where poet Mohitlal Majumder had taught literature as a Bengali teacher, indeed holds a heritage unparalleled. Inscribed above the gate is its philosophy- 'Vidya Dadati Vinayam' – Knowledge makes you humble. Yes, the institution aims to impart wisdom through lessons of modesty and togetherness. It is not enough to infuse education. The aim is to build worthy citizens of tomorrow. And for that -moral values, realization of heritage, vocational training, hands-on experience of learning ,and skill-building all must walk hand in hand. mKeeping all that in mind this govt-sponsored school has come up with a curriculum that caters to various kinds of need that a students has. Now mind you, students here are multilingual and mostly minority group.



Goals Ahead

THS aims at creating skilled, confident, good students who will not only be able to succeed in life but be able to bring a positive change in spheres they walk into. They are given the right discipline – the right training (which, by the way, is kind of hard in a world tinkling with cellphones). The Headmaster of the school sounds confident when he says "I make sure when a student leaves this school, he is not just educated, but smart and skilled to find profession of varied kinds. You see, we teach them to think out of the box, and to always keep learning. I make sure my students get the best environment , and the best all-round education possible. Rest, I suppose, will be told by time."



Unique in it's own way

From fifth to tenth standard it is a boys' school while the HS section is open to all. To enhance student's learning capacity the school has arranged smart classes and CAL. Students are given year-round educational visits to places like Indian Museum, RBI Museum, Fort William, Science City, BITM etc and exposed to seminars pertaining to various subjects. Students are encouraged to come up with their own inventions in exhibitions. They celebrate each other's festivals with enthusiasm. Students' physical and cerebral wellbeing is ensured with cricket and football tournaments, incessant indoor and outdoor games. Come winter, it is mostly the Muslim students who organize the Saraswati pujo of the institution. Walk through the corridors or enter the Biology lab and you will find walls full of figures painted by students. Yes, the students are given music lessons, dance lessons, acting lessons, theatre workshops, self-defense classes, awareness workshops, career counseling ...the list keeps growing. Recently the school has begun turning it's classrooms to air-conditioned ones. All this in a government -sponsored school of West Bengal. Who says good things are pricey?

Confidence Building

With turning of pages, the flow of Bengali -speaking students in Bengali-medium schools has dwindled down. So THS abounds in Hindi-speaking youngsters. To combat the situation the teachers have trained themselves in all three languages- Bengali, Hindi and English, so that there is no information lost. And yes, the students feel at home discussing problems and ideas. Kids are encouraged in peer-learning and peer-activities like PBLs and tree-plantation projects. A student who is not comfortable studying may find his passion in football. A girl who feels tongue-tied answering in class may well find her voice in a voiceover for a documentary on her locality. That boy that nobody knew, one day, becomes popular in a food festival with one innovative dish. These very students leave the school confident, empathetic focused and optimistic.



"Students of THS often say 'Once a student of Taltala, always a student of Taltala'. That's what the school has been able to do through years of quality care – transform from a school to a feeling – it has become the roots in the students' life. What more can one want? May their smiles continue. May their cheer continue "We are THS. We extend our heartfelt thanks and regards to GNIPST for letting us share the story of THS." – **Munmun Das Halder (Assistant Teacher), THS**



Activity Corner



"Republic Day: Celebrating India's Sovereignty"

January 26, 1950, marked a historic day in India's journey, as the Constitution of India came into effect. This day commemorates the transition of India from a British dominion to a republic, governed by its own people. Lete honour the brave freedom fighters , visionary leaders and the Constitution that has shaped our nation. Happy Republic Day!

Word Scramble : Solve and Win!



Submit your answers :

**CLICK
HERE**

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

Answer Key



Puzzle Power : Crack the Crossword

Auld Lang Syne

Gathering

Hangover

Resolution

Custom:

Crowd

Toast

Stroke of midnight

Custom

Calendar

Champagne

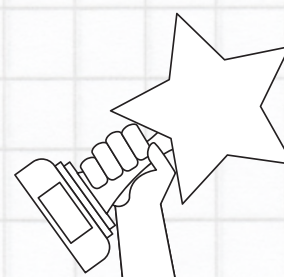
Decorations

Banquet

Shoutout to the “Activity Corner” winner of Volume 1, Issue 6!



Debanjan Bhattacharya



Guru Nanak Institute of Pharmaceutical Science and Technology, B. Pharm

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