

Vision

**TO GROW AS A CENTRE OF EXCELLENCE IN THE FIELD OF
PHARMACEUTICAL AND BIOLOGICAL SCIENCE**



MY SENIORS,
YOU ARE CORDIALLY INVITED TO...
2014 REUNION
LET'S MEET AGAIN

REMINISCENCE
GNIPST REUNION

DATE - 02.02.2014
REGISTRATION TIME - 9.30am - 10.30am
VENUE - GNIPST OF COURSE

FROM,
JUNIOR MEMBERS OF
GNIPST FAMILY



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For your **comments/contribution** OR

For Back-Issues,

<mailto:gnipstbulletin@gmail.com>

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**GURU NANAK INSTITUTE OF PHARMACEUTICAL SCIENCE AND
TECHNOLOGY**

24-01-2014

MESSAGE FROM GNIPST

GNIPST BULLETIN is the official publication of Guru Nanak Institute of Pharmaceutical Science & Technology. All the members of GNIPST are proud to publish the 32nd Volume of “GNIPST BULLETIN”. Over the last two years this bulletin updating readers with different scientific, cultural or sports activities of this prestigious institute and promoting knowledge of recent development in Pharmaceutical and Biological Sciences. Student’s section is informing readers about some curious facts of drug discovery, science, sports and other relevant fields. We look forward to seeing your submission and welcome comments and ideas you may have.

LETTER TO THE EDITOR.

NEWS UPDATE

△ Lab-grown, virus-free stem cells repair retinal tissue in mice (24th January, 2014)

Investigators at Johns Hopkins report they have developed human induced-pluripotent stem cells (iPSCs) capable of repairing damaged retinal vascular tissue in mice. The stem cells, derived from human umbilical cord-blood and coaxed into an embryonic-like state, were grown without the conventional use of viruses, which can mutate genes and initiate cancers, according to the scientists. Their safer method of growing the cells has drawn increased support among scientists, they say, and paves the way for a stem cell bank of cord-blood derived iPSCs to advance regenerative medicine research. [Read more](#)

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△ **New cause identified for children, adults with joint, skeletal, skin problems** (24th January, 2014)

Scientists from the University of Manchester and Central Manchester University Hospitals NHS Foundation Trust have identified the cause of a rare condition called Leri's pleonosteosis (LP). LP is an inherited condition in which children are born with contractures of multiple joints and then develop difficulty of joint movements that progress in severity with age. The research team showed that extra genetic material on chromosome number 8 caused the condition in two families from Manchester.

[Read more](#)

△ **New computer model may aid personalized cancer care** (24th January, 2014)

Dana-Farber Cancer Institute scientists have developed a mathematical model to predict how a **patient's tumor** is likely to behave and which of several possible treatments is most likely to be effective. [Read more](#)

△ **Aspirin intake may stop growth of tumors that cause hearing loss** (24th January, 2014)

Researchers from Massachusetts Eye and Ear, Harvard Medical School, Massachusetts Institute of Technology and Massachusetts General Hospital have demonstrated, for the first time, that aspirin intake correlates with halted growth of vestibular schwannomas (also known as acoustic neuromas), a sometimes

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lethal intracranial tumor that typically causes hearing loss and tinnitus.

[Read more](#)

△ **Fruit Flies Detect Scent of Cancer Cells** (24th January, 2014)

Research unit in an international cooperation project, led by the Konstanz-based neurobiologist and zoologist Professor Dr. Giovanni Galizia, has been the first to demonstrate that fruit flies are able to distinguish cancer cells from healthy cells via their olfactory sense. [Read more](#)

△ **New Study Shows Promise for Preventing Therapy Resistance in Tumor Cells**

(9th January, 2014)

A new study led by University of Kentucky researchers suggests that activating the tumor suppressor p53 in normal cells causes them to secrete Par-4, another potent tumor suppressor protein that induces cell death in cancer cells. This finding may help researchers decipher how to inhibit the growth of tumors that have become resistant to other treatments. [Read more](#)

△ **Polio free India**

(13th January, 2014)

Wild poliovirus has not been found in India since 13 January 2011 meaning that, from that date, India is no longer a country where

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polio is endemic. Three years of being polio free is a notable milestone for the country as a whole, but the success of the immunization and awareness campaign has had a wider impact – with this achievement it is hoped that soon the entire South-East Asia Region can be considered certifiably free from polio. [Read more](#)

HEALTH AWARENESS

Leprosy- some important facts

- Leprosy is a chronic disease caused by *Mycobacterium leprae*, a slow multiplying bacillus
- The disease mainly affects the skin, the peripheral nerves, mucosa of the upper respiratory tract and also the eyes
- Leprosy is curable
- Early diagnosis and treatment with multidrug therapy (MDT) are the key strategies for leprosy programme to cut transmission, prevent disability, reduce stigma and decrease unnecessary financial burden for rehabilitation
- MDT is available at all health facilities free of charge
- Leprosy is transmitted via droplets, from the nose and mouth, during close and frequent contacts with untreated cases
- If left untreated, leprosy can cause progressive and permanent damage to the skin, nerves, limbs and eyes
- 95% of the exposed population is NOT susceptible for leprosy

Leprosy today

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- Elimination of leprosy globally was achieved in the year 2000, i.e., a prevalence rate of leprosy less than 1 case per 10 000 persons at global level
- Close to 16 million leprosy patients have been cured with MDT over the past 20 years

Pockets of high endemicity still remain in some areas of many countries but a few are mentioned as reference Angola, Bangladesh, Brazil, China, Democratic Republic of Congo, Ethiopia, India, Indonesia, Madagascar, Mozambique, Myanmar, Nepal, Nigeria, Philippines, South Sudan, Sri Lanka, Sudan and United Republic of Tanzania.

WHO Global Leprosy Strategies

Current strategy

Enhanced Global Strategy for Further Reducing Disease Burden Due to Leprosy (Plan Period: 2011–2015)

Implementation by national leprosy programmes improved focus on detecting cases in timely manner to reduce new cases with visible deformities otherwise called Grade 2 disabilities (G2D cases).

Enhanced Global Strategy for Further Reducing Disease Burden Due to Leprosy (2011–2015) Operational Guidelines

In order to reach all patients, leprosy treatment needs to be fully integrated into general health services. Moreover, political commitment needs to be sustained to:

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- further increase or maintain their political commitment and give high priority to leprosy control
- strengthen managerial capabilities within leprosy programmes, particularly at the intermediate level
- improve training in leprosy for health workers at all levels, including medical students and student nurses
- ensure that coverage of multidrug therapy is maintained at the highest level possible and that patients comply with treatment

A new environment, in which patients will not hesitate to come forward for diagnosis and treatment at any health facility, must be created, for:

- encouraging self-reporting and early treatment by promoting community awareness and changing the image of leprosy
- ensuring accessible and uninterrupted MDT services available to all patients through flexible and patient-friendly drug delivery systems
- monitoring the performance of MDT services, the quality of patients' care and the progress being made towards elimination through national disease surveillance systems
- increased empowerment of people affected by the disease
- greater involvement in services and community

Sustained and committed efforts by the national programmes along with the continued support from national and international partners will:

- gradually reduce the disease burden due to leprosy
- change the image of leprosy at the global, national and local levels

Previous strategies

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Global Leprosy Strategy for Further Reducing the Leprosy Burden and Sustaining Leprosy Control Activities (Plan Period 2006-2010)

The emphasis was to develop an effective and long lasting change in leprosy services through integration with general health services and capacity building of health staff.

DISEASE OUTBREAK NEWS

△ Human infection with avian influenza A(H7N9) virus (23rd January, 2014)

The National Health and Family Planning Commission of China notified WHO of 10 additional laboratory-confirmed cases of human infection with avian influenza A(H7N9) virus. [Read more](#)

FORTHCOMING EVENTS

△ **Reminiscence, 2014(GNIPST Reunion)** will be held in College auditorium on 2nd February,2014.

△ International Conference on “Chemistry - Frontiers & Challenges” will be held in PSGR Krishnammal College for Women from February 5th - 7th 2014. [Read more](#)

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DRUGS UPDATES

△ FDA approves first gel for sealing corneal incision after cataract surgery (9th January, 2014)

The U.S. Food and Drug Administration today approved the first gel sealant for use in stopping fluid from leaking through the incision in a patient's cornea after cataract surgery with intraocular lens placement in adults. Prior to today's approval, stitches were the only option for closing a leaking corneal incision after cataract surgery. [Read more](#)

CAMPUS NEWS

△ An industrial tour and biodiversity tour was conducted in Sikkim for B.Pharm and B.Sc. students under the supervision of Mr. Asis Bala, Ms. Jeentara Begum and Ms. Moumita Chowdhury.

△ B.Pharm 3rd year won the GNIPST Football Champions trophy, 2013. B.Pharm 3rd year won the final match 1-0 against B.Pharm 2nd year. Deep Chakraborty was the only scorer of the final.

△ Students of GNIPST organized pre puja celebration programme, 'Saaranya' on 7th October, 2013 in college Auditorium.

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△ GNIPST organized a **garment distribution programme** on 28th September, 2013 at Dakshineswar Kali Temple and Adyapith, Kolkata. On this remarkable event about hundred people have received garments. More than hundred students and most of the faculties participated on that day with lot of enthusiasm.

△ GNIPST celebrated **World Heart Day (29th September)** and **Pharmacist's Day (25th September)** on 25th and 26th September, 2013 in GNIPST Auditorium. A seminar on 'Violence against woman' and 'female foeticide' was held on GNIPST Auditorium on 25th September organized by JABALA Action Research Organization. On 26th September an intra-college Oral and Poster presentation competition related to World Pharmacist's day and Heart day was held in GNIPST. Ms. Purbali Chakraborty of B.Pharm 4th year won the first prize in Oral Presentation. The winner of Poster presentation was the group of Ms. Utsa Sinha, Mr. Koushik Saha and Mr. Niladri Banerjee (B.Pharm 4th year). A good number of students have participated in both the competition with their valuable views.

STUDENTS' SECTION

❖ WHO CAN ANSWER FIRST????

- ✓ *Name of which Pharmaceutical aid was derived from Latin word for wool and oil birth?*
- ✓ *Dan Shechtman won noble prize in which discipline?*

Answer of Previous Issue's Questions:

- A) **Sir Ronald Ross** B) *Nelson Mandela*

Identify the author



Answer of Previous Issue's Image:

Idris Elba

- *Send your thoughts/ Quiz/Puzzles/games/write-ups or any other contributions for Students' Section& answers of this Section at gnipstbulletin@gmail.com*

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EDITOR'S NOTE

I am proud to publish the 1st issue of 32nd Volume of **GNIPST BULLETIN**. GNIPST BULLETIN now connected globally through *facebook account 'GNIPST bulletin'*

I want to convey my thanks to all the GNIPST members and the readers for their valuable comments, encouragement and supports.

I am thankful to **Dr. Abhijit Sengupta**, Director of GNIPST for his valuable advice and encouragement. Special thanks to **Dr. Prerona Saha** and **Mr. Debabrata Ghosh Dastidar** for their kind co-operation and technical supports. I am thankful to **Ms. Priyanka Ray** for his contribution to this issue's **Health awareness** section .An important part of the improvement of the bulletin is the contribution of the readers. You are invited to send in your write ups, notes, critiques or any kind of contribution for the forthcoming special and regular issue.

Wish you all a **happy Republic Day 2014**.

ARCHIVE

△ **Teacher's day** was celebrated on 5th September, 2013 by the students of GNIPST in GNIPST Auditorium.

△ ***Azalea (exotic flower)*** , the fresher welcome programme for newcomers of GNIPST in the session 2013-14 was held on 8th August in GNIPST Auditorium.

△ One day seminar cum teachers' development programme for school teachers on the theme of "Recent Trends of Life Sciences in Higher Education" organized by GNIPST held on 29th June,

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2013 at GNIPST auditorium. The programme was inaugurated by Prof . Asit Guha, Director of JIS Group, Mr. U.S. Mukherjee, Dy Director of JIS Group and Dr. Abhijit Sengupta, Director cum Principal of GNIPST with lamp lighting. The programme started with an opening song performed by the B.Pharm students of this institute. The seminar consists of a series of lectures, video presentations and poster session. On the pre lunch session 4 lectures were given by Dr. Lopamudra Dutta, Mr. Debabrata Ghosh Dastidar, Ms. Swati Nandy and Ms. Tamalika Chakraborty respectively. On their presentation the speakers enlighten the recent development of Pharmacy, Genetics and Microbiology and their correlation with Life Sciences. On the post lunch session, Ms. Saini Setua and Ms. Sanchari Bhattacharjee explained the recent development and career opportunities in Biotechnology and Hospital Management. The programme was concluded with valedictory session and certificate distribution.

About 50 Higher secondary school teachers from different schools of Kolkata and North& South 24 Parganas district of West Bengal participated in this programme. A good interactive session between participants and speakers was observed in the seminar. The seminar was a great success with the effort of faculties, staffs and students of our Institute. It was a unique discussion platform for school teachers and professional of the emerging and newer branches of Life Science.

- The following B.Pharm. final year students have qualified, GPAT-2013. We congratulate them all.

Amanpreet Kaur, Mohua Das,

Sourav Bagchi, Uddipta Ghosh Dastidar,

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Siddarth Shah, PraptiChakraborty,

SubhradipRoychoudhury, Soumyajit Das,

Mounomukhar Bhattacharjee.

➤ **GNIPST is now approved by AICTE and affiliated to WBUT for conducting the two years post graduate course (M.Pharm) in PHARMACEUTICS. The approved number of seat is 18.**

- The general body meeting of APTI, Bengal Branch has been conducted at GNIPST on 15th June, 2012. The program started with a nice presentation by Dr. Pulok Kr. Mukherjee, School of Natural Products, JU on the skill to write a good manuscript for publication in impact journals. It was followed by nearly two hour long discussion among more than thirty participants on different aspects of pharmacy education. Five nonmember participants applied for membership on that very day.
- GNIPST is now approved by AICTE and affiliated to WBUT for conducting the two years' post graduate course (M.Pharm) in PHARMACOLOGY. The approved number of seat is 18.
- The number of seats in B.Pharm. has been increased from 60 to 120.
- **AICTE has sanctioned a release of grant under Research Promotion Scheme (RPS) during the financial year 2012-13 to GNIPST as per the details below:**
 - a. *Beneficiary Institution:* Guru Nanak Institution of Pharmaceutical Science & Technology.

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b. *Principal Investigator:* Dr. Lopamudra Dutta.

c. *Grant-in-aid sanctioned:* Rs. 16,25000/- only

d. *Approved duration:* 3 years

e. *Title of the project:* Screening and identification of potential medicinal plant of **Purulia & Bankura** districts of West Bengal with respect to diseases such as diabetes, rheumatism, Jaundice, hypertension and developing biotechnological tools for enhancing bioactive molecules in these plants.