



# GNIPST BULLETIN 2016

09<sup>th</sup> September, 2016 Volume No.: 58 Issue No.: 04

## Vision

To develop responsible citizens who would be professionally equipped to 'think globally and act locally' and become reformers of society to meet the challenges of future.

## Mission

To impart high quality pharmaceutical science, technology and management education to the budding professionals and provide the ambience needed for developing requisite skills to make a mark of excellence in Education, Research, Business, Industry and achieve highest personal standards.

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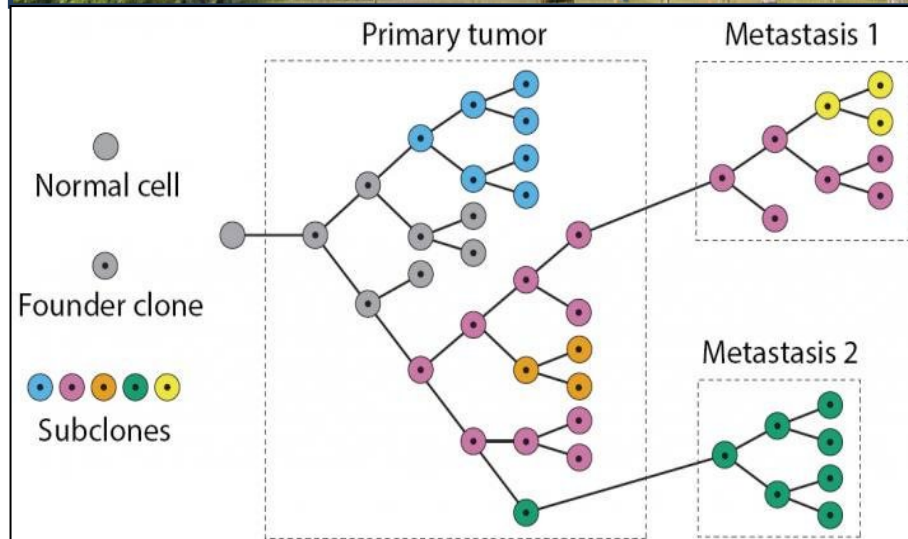
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For your **comments/contribution**

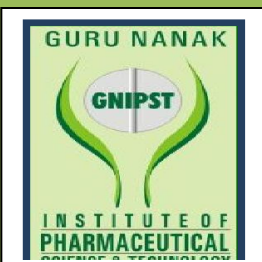
**OR For Back-Issues,**

<mailto:gnipstbulletin@gmail.com>



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

Website: <http://gnipst.ac.in>



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## MESSAGE FROM PRINCIPAL

*"It can happen. It does happen.  
But it can't happen if you quit."* Lauren Dane.

*'We are what we repeatedly do.  
Excellence then is not an act, but a habit.'* Aristotle



It gives me immense pleasure to pen a few words for our e-bulletin. At the onset I would like to thank the last year's editors and congratulate the newly selected editors for the current year.

Our first consideration is always in the best interest of the students. Our goal is to promote academic excellence and continuous improvement.

I believe that excellence in education is aided by creating a learning environment in which all learners are supported in maximizing their potential and talents. Education needs to focus on personalized learning and instruction, while promoting an education system that is impartial, universally accessible, and meeting the needs of all students.

It is of paramount importance that our learners have sufficient motivation and encouragement in order to achieve their aims. We are all very proud of you, our students, and your accomplishments and look forward to watching as you put your mark on the profession in the years ahead.

The call of the time is to progress, not merely to move ahead. Our progressive Management is looking forward and wants our Institute to flourish as a Post Graduate Institute of Excellence. Steps are taken in this direction and fruits of these efforts will be received by our students in the near future. Our Teachers are committed and dedicated for the development of the institution by imparting their knowledge and play the role of facilitator as well as role model to our students.

The Pharmacy profession is thriving with a multitude of possibilities, opportunities and positive challenges. At Guru Nanak Institute of Pharmaceutical Science and Technology, our focus is on holistic needs of our students.

I am confident that the students of GNIPST will recognize all the possibilities, take full advantage of the opportunities and meet the challenges with purpose and determination.

Excellence in Education is not a final destination, it is a continuous walk. I welcome you to join us on this path.

My best wishes to all.

Dr. A. Sengupta

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## EDITORIAL BOARD

CHIEF EDITOR	DR. ABHIJIT SENGUPTA
EDITOR	MS. JEENATARA BEGUM
ASSOCIATE EDITOR	MR. DIPANJAN MANDAL



## HISTORICAL ARTICLE

### Enrico Fermi

Enrico Fermi, an Italian physicist, is well-known for his achievements in both theoretical and experimental physics. This is an exceptional achievement in a period where scientific accomplishments have focused on one aspect or the other. He is mainly remembered for his work on the advancement of the first nuclear reactor, and for his contributions to the development of quantum theory, nuclear and particle physics, and statistical mechanics. He was awarded the Nobel Prize in Physics in 1938 for “his discovery of new radioactive elements produced by neutron irradiation, and for the discovery of nuclear reactions brought about by slow neutrons.”

#### Early Years and Career:

Enrico Fermi was born in Rome, Italy on 29th September, 1901. His father, Alberto Fermi was a Chief Inspector of the Ministry of Communications, and his mother, Ida de Gattis was a school teacher. He received his early education from a local grammar school and at an early age developed a great interest in physics and mathematics. Fermi’s aptitude for physics and mathematics was highly encouraged by Adolfo Amidei, one of his father’s friends, who gave him several books on physics and mathematics, which he read and understood quickly.

In 1918, Fermi joined the Scuola Normale Superiore in Pisa. Here he spent four years and gained a doctor’s degree in physics in 1922, with Professor Puccianti. A year later he was awarded a scholarship from the Italian Government and spent few months with Professor Max Born in Göttingen. With a Rockefeller Fellowship, in 1924, he moved to Leyden to work with P.

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Ehrenfest. The same year he returned to Italy where he served for two years as a Lecturer in Mathematical Physics and Mechanics at the University of Florence. From 1927 to 1938, Fermi served as the Professor of Theoretical Physics at the University of Rome. During 1939, he was employed as the Professor of Physics at Columbia University, N.Y until 1942. Later on in 1946, accepted a professorship at the Institute for Nuclear Studies at the University of Chicago, a position which he held till his death.

### **Contributions and Achievements:**

In 1926, Fermi discovered the statistical laws, nowadays known as the Fermi statistics.

It was during his time in Paris, Fermi and his team marked major contributions to many practical and theoretical aspects of physics. In 1934, while at the University of Rome, Fermi carried out his experiments where he bombarded a variety of elements with neutrons and discovered that slow moving neutrons were particularly effective in producing radioactive atoms. Not realizing he had split the atom, Fermi told people about what he thought were elements beyond uranium. In 1938, Fermi won the Nobel Prize for Physics for his work on nuclear processes.

He continued to conduct nuclear fission experiments at Columbia University. In 1940, Fermi and his team proved that absorption of a neutron by a uranium nucleus can cause the nucleus to split into two nearly equal parts, releasing numerous neutrons and huge amounts of energy. This was the first nuclear chain reaction. Later in 1944 this work was carried forward to New Mexico, and on July 16, 1945, the first atomic bomb was detonated at Alamogordo Air Base.

### **Death:**

Fermi's historic accomplishments caused him to be recognized as one of the great scientists of the 20th century. He died of cancer at the University of Chicago on 28 November 1954.

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## NEWS UPDATE

### **△ New software helps to identify course of cancer metastasis, tumor 'evolution': (09<sup>th</sup> September, 2016)**

Tumors also differ among patients with the same type of cancer, so how is a physician able to prescribe a tailored regimen for the patient? Researchers approach to infer the evolutionary track of tumor cells by surveying two types of mutations -- somatic copy number alterations and single-nucleotide alterations -- derived from multiple samples taken from a single patient.

### **△ Postpartum psychosis big risk for mothers with bipolar disorder: (09<sup>th</sup> September, 2016)**

Pregnant women with bipolar disorder and their families and physicians should be aware of a significantly higher risk for developing postpartum psychosis, according to a new review of literature on the disorder.

### **△ Heat shock protein appears to turn on Schistosoma invasion: (09<sup>th</sup> September, 2016)**

The heat shock protein Hsp70, known for helping cells withstand stress, may also act as a switch that triggers free-swimming Schistosoma larvae to begin penetrating the skin and transforming into the parasitic flatworms that infect more than 240 million people worldwide with schistosomiasis. The finding could lead to targets for disease-preventing medicines and opens the possibility other disease-causing parasites use the protein to invade hosts.

### **△ Six-day clinical trial finds integrative medicine program alters blood serum: (09<sup>th</sup> September, 2016)**

In a novel controlled clinical trial, participants in a six-day Ayurvedic-based well-being program that featured a vegetarian diet, meditation, yoga and massages experienced measurable

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decreases in a set of blood-based metabolites associated with inflammation, cardiovascular disease risk and cholesterol regulation.

△ **New research sheds light 'gender gap' in cystic fibrosis: (09<sup>th</sup> September, 2016)**

Medical researchers have examined the underpinnings of cystic fibrosis, including its disproportionate effect on women -- due in part to the influence of estrogen on the flow of important chemical ions.

△ **Researchers identify new therapeutic target for cancer: (09<sup>th</sup> September, 2016)**

A protein that may be an unexplored target to develop new cancer therapies has been identified by researchers. The protein, known as kinase suppressor of Ras, or KSR, is a pseudoenzyme that plays a critical role in the transmission of signals in the cell determining whether cells grow, divide, or die.

**For detail mail to [editor](#)**

 **KNOWLEDGE BASED ARTICLE**

**Marketing of clot retrieval devices to reduce disability in stroke patients**

The U.S. Food and Drug Administration allowed marketing of two Trevo clot retrieval devices as an initial therapy for strokes due to blood clots (ischemic) to reduce paralysis, speech difficulties and other stroke disabilities. These devices should be used within six hours of symptom onset and only following treatment with a clot-dissolving drug (tissue plasminogen activator or t-PA), which needs to be given within three hours of symptom onset.

“This is the first time FDA has allowed the use of these devices alongside t-PA, which has the potential to help further reduce the devastating disabilities associated with strokes compared to the use of t-PA alone,” said Carlos Peña, Ph.D., director of the division of neurological and physical medicine devices at the FDA’s Center

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for Devices and Radiological Health. “Now health care providers and their patients have another tool for treating stroke and potentially preventing long-term disability.”

The Trevo device was first cleared by the FDA in 2012 to remove a blood clot and restore blood flow in stroke patients who could not receive t-PA or for those patients who did not respond to t-PA therapy. Today’s action expands the devices’ indication to a broader group of patients.

Trevo is a clot removal device that is inserted through a catheter up into the blood vessel to the site of the blood clot. When the shaped section at the end of the device is fully expanded (up to three to six millimeters in diameter), it grips the clot, allowing the physician to retrieve the clot by pulling it back through the blood vessel along with the device for removal through a catheter or sheath.

Stroke kills nearly 130,000 Americans each year and is the fifth leading cause of death, according to the Centers for Disease Control and Prevention. About 87 percent of all strokes are ischemic strokes. Until now, the only first-line treatment for acute ischemic stroke was t-PA administered intravenously.

The FDA evaluated data from a clinical trial comparing 96 randomly selected patients treated with the Trevo device along with t-PA and medical management of blood pressure and disability symptoms with 249 patients who had only t-PA and medical management. Twenty-nine percent of patients treated with the Trevo device were functionally independent (ranging from no symptoms to slight disability) three months after their stroke, compared to 19 percent of patients who were not treated with the Trevo device.

Risks associated with using the Trevo device include a failure to retrieve the blood clot, device malfunctions including breakage and navigation difficulties, which can potentially damage blood vessels and cause perforation or hemorrhage.

The FDA reviewed the data for Trevo for stroke treatment through the de novo premarket review pathway, a regulatory pathway for

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devices of a new type with low-to-moderate-risk that are not substantially equivalent to an already legally-marketed device and for which special controls can be developed, in addition to general controls, to provide a reasonable assurance of safety and effectiveness of the devices.

Trevo is manufactured by Concentric Medical Inc. in Mountain View, California.

The FDA, an agency within the U.S. Department of Health and Human Services, protects the public health by assuring the safety, effectiveness, and security of human and veterinary drugs, vaccines and other biological products for human use, and medical devices. The agency also is responsible for the safety and security of our nation's food supply, cosmetics, dietary supplements, products that give off electronic radiation, and for regulating tobacco products.

Jeenatara Begum  
Assistant Professor  
GNIPST

#### **DISEASE RELATED BREAKING NEWS**

##### **△ Lyme Disease: (08<sup>th</sup> September, 2016)**

Lyme disease, also known as borreliosis, is an infection by the bacterium *Borrelia burgdorferi*. The bacterium is transmitted to humans when they are bitten by an infected tick.

[Read more](#)

#### **UPCOMING EVENTS**

△ 2<sup>nd</sup> International conference on “Medical, Medicine and Health Sciences”-MMHS 2016 will be held on 13<sup>th</sup> to 14<sup>th</sup> september, 2016 at New Delhi.

△ IPGA sponsored National Seminar on “Current status of Regulatory Affairs for Pharmaceuticals” will be held on 24<sup>th</sup> to 25<sup>th</sup> September, 2016 at B.N.College of Pharmacy, Bhopal Nobles University, Udaipur.

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## DRUGS UPDATES

### △ FDA Extends Regulatory Review Period for IDegLira by Three Months: (01<sup>st</sup> September, 2016)

Novo Nordisk announced that the US Food and Drug Administration (FDA) has extended the regulatory review period for IDegLira, the fixed-ratio combination of insulin degludec and liraglutide in adults with type 2 diabetes.

[Read more](#)

## CAMPUS NEWS

### △ Freshers welcome programme:

On 12<sup>th</sup> September GNIPST is going to organize the Freshers welcome programme Kulrav 2kl6.

### △ GNIPST Football Match 2016:

On 31<sup>st</sup> August and 1<sup>st</sup> September GNIPST sports club organized a football match. The winner of the football match was B.Pharm 3<sup>rd</sup> year.

### △ Recent Trends in Pharmaceutical Research:

A Science Awareness Programme comprising of seminar on “Recent Trends in Pharmaceutical Research” was organized by GNIPST in collaboration with National Academy of Science India (NASI) on 30<sup>th</sup> august, 2016 from 2 pm to 4.30 pm at GNIPST auditorium. Plantation programme was also organized by Eco club. Dr. Hemanta Kumar Majumder, gave his valuable lecture on “Modern Biology & its Evolution” and Dr. Pijush K Das delivered his lecture on “Site specific Drug Targeting –Magic Bullet approach”.

### △ World Photography Day celebration:

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On 19<sup>th</sup> August 2016 GNIPST celebrated World Photography Day at Dakhineswar.

△ **Friendly Football Match:**

On 15<sup>th</sup> August 2016 GNIPST organised a friendly football match with Alumni members.

△ **Farewell 2016:**

On 25<sup>th</sup> May 2016 GNIPST celebrated the farewell programme for the final year students. Best of luck to all final year students for their future life.

△ **ALUMNI MEMBERS 2016:**

Congratulations to new Alumni Members of GNIPST.

△ **Placement Record 2016:**

SL NO	COMPANY NAME	NUMBER OF STUDENT APPEARED/APPLIED	NUMBER OF STUDENT SELECTED	JOB PROFILE
1	DR. LAL PATH LAB	64	7	Sales, Marketing and office assistant
2	APOLLO PHARMACY	36	25	Hospital and retail chain pharmacist
3	ABBOTT INDIA	74	03	Sales and Marketing
4	HETERO DRUGS	18	18 (Waiting for final interview)	Production, QC and QA
5	ERIS LIFE SCIENCES	01	01 (Joined)	Sales and Marketing
6	JUPITER PHARMACEUTICALS	05	01 (Joined)	Production, QC and QA
7	GOVT PHARMACIST	4	4 (Joined)	Hospital Pharmacist
8	ALCHEMIST EYE HOSPITAL	2	2 (Waiting for final interview)	Hospital Pharmacist

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9	OPTIVAL HEALTH SOLUTIONS PVT. LTD. (MEDPLUS)	21	21	Community Pharmacist
10	NESTLE INDIA LTD	08	02	Nutrition Officer Trainee
11	LUPIN	01	01	Sales and Marketing
12	GSK PHARMACEUTICAL LTD	05	02 (1 of them already joined)	Sales and Marketing
13	OAK PHARMACEUTICAL	06	02 (Joined)	Sales and Marketing

△ **IPA Bengal Pharma & Healthcare trust scholarship 2016:**

Congratulations to Rudradip Das, student of B.Pharm 3<sup>rd</sup> year has been awarded IPA Bengal Pharma & Healthcare trust scholarship 2016.

△ **Accreditation by NAAC:**

SL. NO.	NAME OF THE INSTITUTE	STATE	CGPA(out of scale 4)	GRADE
01	Guru Nanak Institute of Pharmaceutical Science And Technology, Kolkata-700114	West Bengal	2.70	B

△ **GPAT 2016 Result:**

The following B.Pharm. final year students have qualified, GPAT-2016. We congratulate them all.

**Aishika Datta**  
**Mainak Chatterjee**  
**Indira Saha**  
**Priyanka De**  
**Aheli Mukherjee**

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Soumya Guha  
Debanjana Das  
Debalina Datta  
Evana Patra  
Himadrija Chatterjee

△ **IRIS 2016:**

GNIPST organized college fest 'IRIS 2016' from 11<sup>th</sup> to 13<sup>th</sup> March, 2016.

Result of different events:

**Intracollege Quiz competition:**

1<sup>st</sup>: Arani Roy and Dipayan Nath

2<sup>nd</sup>: Bhaskar Singha and Pratik Nandi

**Intracollege Painting competition:**

1<sup>st</sup>: Swagata Paul

2<sup>nd</sup>: Aviraj Pathak

3<sup>rd</sup>: Dippyoman Guha

**Group Dance Competition:**

Karma Group

**Intercollege Solo Dance Competition:**

1<sup>st</sup>: Monodipa Ghosh

2<sup>nd</sup>: Aditya Paul (NIT)

**Antaksari Competition:**

1<sup>st</sup>: Sunanda and Aparupa

2<sup>nd</sup>: Meghna and Joyita

3<sup>rd</sup>: Arpita and Pami

**Intercollege Solo Singing Competition:**

1<sup>st</sup>: Arpita Sarkar

2<sup>nd</sup>: Arvind Raj (Sudhir Chandra College)

3<sup>rd</sup>: Priyam Mondal (Supreme College)

**Intercollege Band Competition:**

1<sup>st</sup>: D Errors

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2<sup>nd</sup>: Mukti

3<sup>rd</sup>: GNIPST band

**Fashion:**

Best Male: Md. Nadeem Shah

Best Female: Sweta

Best Couple: Md. Nadeem Shah and Susmita Kar

△ **Blood donation Camp 2016:**

On 4<sup>th</sup> March 2016 Social Service club and Alumni Association of GNIPST organized a Blood donation camp in association with Association of voluntary Blood Donars, West Bengal.

△ **Reminiscence & 1<sup>st</sup> Alumni meet 2016:**

On 28<sup>th</sup> February 2016 GNIPST organized the Reunion programme “Reminiscence & 1<sup>st</sup> Alumni meet 2016”.

△ **National Assessment and Accreditation Council (NAAC):**

A NAAC peer team completed a three-day inspection (17<sup>th</sup> February to 19<sup>th</sup> February, 2016) of GNIPST to evaluate its academic credibility and infrastructure on Friday.

△ **Saraswati Puja 2016:**

On 13<sup>th</sup> February 2016 the students of GNIPST celebrated Saraswati Puja at GNIPST campus.

△ **GNIPST Cricket 2016 result:**

Winner: B.Pharm 4<sup>th</sup> year

Runners: B.Pharm 2<sup>nd</sup> year

Man of the match, best wicket taker, best batsman: B.Pharm 4<sup>th</sup> year student Gourab Dey

📌 **STUDENTS' SECTION**

❖ **WHO CAN ANSWER FIRST????**

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✓ *Who is the author of the book 'The Web of Indian Life'?*

Answer of Previous Issue's Question:

MISSIONARIES OF CHARITY BROTHERS

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

#### EDITOR'S NOTE

It is a great pleasure for me to publish the 4<sup>th</sup> issue of 58<sup>th</sup> Volume of **GNIPST BULLETIN**. All the followers of GNIPST BULLETIN are able to avail the bulletin through *facebook account 'GNIPST bulletin'* I am very much thankful to all the GNIPST members and readers who are giving their valuable comments, encouragements and supports. I am also thankful to **Dr. Abhijit Sengupta**, Director of GNIPST for his valuable advice and encouragement. Special thanks to **Dr. Prerona Saha, Mr. Debabrata Ghosh Dastidar and Mr. Soumya Bhattacharya** for their kind co-operation and technical supports. Thank you **Mr. Soumya Bhattacharya** for the questionnaires of the student 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.

#### ARCHIVE

OTHERS:

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➤ 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.

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.

### Activity Clubs of GNIPST:

Name of Club	Member Faculty
CULTURAL	Ms. Priyanka Ray
DEBATE AND EXTEMPORE	Mr. Soumya Bhattacharya
ECO	Ms. Sumana Roy
LITERARY AND PAINTING	Ms. Jeenatara Begum
PHOTOGRAPHY	Ms. Sanchari Bhattacharya and Mr. Abir Koley
SCIENCE AND INNOVATIVE MODELLING	Mr. Samrat Bose
SOCIAL SERVICES	Dr. Asis Bala
SPORTS	Mr. Debabrata GhoshDastidar

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