



GNIPST BULLETIN 2014

Dr. Reddy's Laboratories hiring Freshers 2014 for Pharmacology & Biology. For details see page number 17.

26th December, 2014 Volume No.: 40 Issue No.: 04

Vision

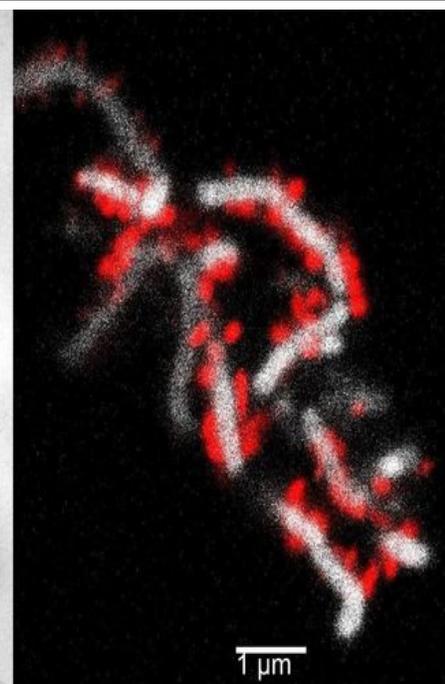
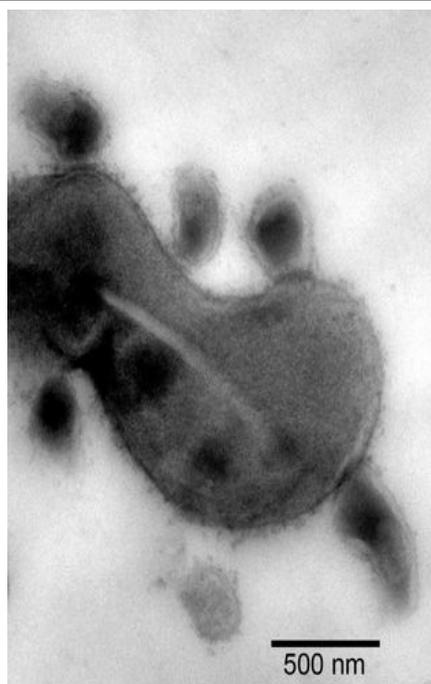
TO REACH THE PINNACLE OF GLORY AS A CENTRE OF EXCELLENCE IN THE FIELD OF PHARMACEUTICAL AND BIOLOGICAL SCIENCES BY KNOWLEDGE BASED LEARNING AND PRACTICE

Contents

- **Message from PRINCIPAL**
- **Editorial board**
- **Historical article**
- **News Update**
- **Knowledge based Article**
- **Disease Related Breaking News**
- **Upcoming Events**
- **Drugs Update**
- **Campus News**
- **Student's Section**
- **Editor's Note**
- **Archive**

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GURU NANAK INSTITUTE OF PHARMACEUTICAL
SCIENCE AND TECHNOLOGY

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26-12-2014

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

[Click here to go at the top](#)



EDITORIAL BOARD

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



HISTORICAL ARTICLE

First Hospital in Colonial America:

Colonial America's first hospital (Pennsylvania) was established in Philadelphia in 1751; the first Hospital Pharmacy began operations there in 1752, temporarily set up in the Kinsey house, which served until the first hospital building was completed. The ingenuity of Benjamin Franklin was helpful in both. First Hospital Pharmacist was Jonathan Roberts; but it was his successor, John Morgan, whose practice as a hospital pharmacist (1755-56), and whose impact upon Pharmacy and Medicine influenced changes that were to become of importance to the development of professional pharmacy in North America. First as pharmacist, later as physician, he advocated prescription writing and championed independent practice of two professions.



NEWS UPDATE

△ Twelve new genetic causes of developmental disorders: (25th December, 2014)

Scientists have discovered 12 new genetic causes of developmental disorders. They will ultimately analyze data from 12,000 families. The article describes results from the first 1133 samples, which have increased the proportion of patients that can be diagnosed by 10 per cent.

△ Scientists zero in on how lung cancer spreads: (25th December, 2014)

Scientists have taken microscopic images revealing that the protein ties tethering cells together are severed in lung cancer cells.

26-12-2014

△ **Egg and sperm race: Scientists create precursors to human egg and sperm: (25th December, 2014)**

Scientists have created primordial germ cells -- cells that will go on to become egg and sperm -- using human embryonic stem cells. Although this had already been done using rodent stem cells, this is the first time this has been achieved efficiently using human stem cells.

△ **High-fat diet, obesity during pregnancy harms stem cells in developing fetus: (24th December, 2014)**

Physician-scientists reveal a high-fat diet and obesity during pregnancy compromise the blood-forming, or hematopoietic, stem cell system in the fetal liver responsible for creating and sustaining lifelong blood and immune system function.

△ **Scrapie could breach the species barrier: (24th December, 2014)**

The pathogens responsible for scrapie in small ruminants (prions) have the potential to convert the human prion protein from a healthy state to a pathological state, researchers have discovered for the first time. In mice models reproducing the human species barrier, this prion induces a disease similar to Creutzfeldt-Jakob disease. These primary results stress the necessity to reassess the transmission of this disease to humans.

△ **To remove the gallbladder or not: That is the question: (23rd December, 2014)**

Gallbladder removal is one of the most common operations performed in older adults. Yet, research suggests that many patients who would benefit most from the surgery don't get it.

[Click here to go at the top](#)

26-12-2014

△ **Identifying brain variations to predict patient response to surgery for OCD: (23rd December, 2014)**

Identifying brain variations may help physicians predict which patients will respond to a neurosurgical procedure to treat obsessive-compulsive disorder that does not respond to medication or cognitive-behavioral therapies, according to a report.

△ **Popular diabetes drug may be safe for patients with kidney disease: (23rd December, 2014)**

The most popular treatment for type 2 diabetes, metformin, may be safer for patients with mild to moderate kidney disease than guidelines suggest, according to a new, systematic review of the literature. For 20 years, metformin has been used in the U.S. to lower blood sugar in people with type 2 diabetes. Most experts consider it the best first agent to treat blood sugar increases in this disease. Despite its strong safety profile, the FDA has long recommended that metformin not be prescribed to patients with mild to moderate kidney disease due to the risk of lactic acidosis, a potentially serious condition. But those decades-old guidelines have recently been called into question.

△ **Researchers map paths to cancer drug resistance: (23rd December, 2014)**

Key events that prompt certain cancer cells to develop resistance to otherwise lethal therapies have been identified by researchers. By mapping the specific steps that cells of melanoma, breast cancer and a blood cancer called myelofibrosis use to become resistant to drugs, the researchers now have much better targets for blocking those pathways and keeping current therapies effective.

[Click here to go at the top](#)

26-12-2014

△ Alternate drug therapy lowers antibodies, researchers find: (23rd December, 2014)

A novel pre-operative drug therapy reduces antibodies in kidney patients with greater success than with traditional methods, with the potential to increase the patients' candidacy for kidney transplantation and decrease the likelihood of organ rejection. These are the findings of a three-year clinical trial.

For detail mail to [editor](#)

KNOWLEDGE BASED ARTICLE

Microbial dark matter might cause disease

One of the great recent discoveries in modern biology was that the human body contains 10 times more bacterial cells than human cells. But much of that bacteria is still a puzzle to scientists.

It is estimated by scientists that roughly half of bacteria living in human bodies is difficult to replicate for scientific research -- which is why biologists call it "microbial dark matter." Scientists, however, have long been determined to learn more about these uncultivable bacteria, because they may contribute to the development of certain debilitating and chronic diseases.

For decades, one bacteria group that has posed a particular challenge for researchers is the Candidate Phylum TM7, which has been thought to cause inflammatory mucosal diseases because it is so prevalent in people with periodontitis, an infection of the gums.

Now, a landmark discovery by scientists at the UCLA School of Dentistry, the J. Craig Venter Institute and the University of Washington School of Dentistry has revealed insights into TM7's resistance to scientific study and to its role in the progression of periodontitis and other diseases. Their findings shed new light on the biological, ecological and medical importance of TM7, and could lead to better understanding of other elusive bacteria.

[Click here to go at the top](#)

26-12-2014

The researchers cultivated a specific type of TM7 called TM7x, a version of TM7 found in people's mouths, and found the first known proof of a signaling interaction between the bacterium and an infectious agent called *Actinomyces odontolyticus*, or XH001, which causes mucosal inflammation.

To prove that TM7x needs XH001 to grow and survive, the team attempted to mix isolated TM7x cells with other strains of bacteria. Only XH001 was able to establish a physical association with TM7x, which led researchers to believe that TM7x and XH001 might have evolved together during their establishment in the mouth.

What makes TM7x even more intriguing are its potential roles in chronic inflammation of the digestive tract, vaginal diseases and periodontitis. The co-cultures collected in this study allowed researchers to examine, for the first time ever, the degree to which TM7x helps cause these conditions.

It was previously known that XH001 induces inflammation. But by infecting bone marrow cells with XH001 alone and then with the TM7x/XH001 co-culture, the researchers also found that inflammation was greatly reduced when TM7x was physically attached to XH001. This is the only known study that has provided evidence of this relationship between TM7 and XH001.

The researchers plan to further study the unique relationship between TM7X and XH001 and how they jointly cause mucosal disease. Their findings could have implications for potential treatment and therapeutics.

Jeenatara Begum
Assistant Professor
GNIPST

[Click here to go at the top](#)

26-12-2014

DISEASE RELATED BREAKING NEWS

△ **Middle East respiratory syndrome coronavirus (MERS-CoV) - Saudi Arabia: (26th December, 2014)**

Between 8 and 16 December 2014, the National IHR Focal Point for the Kingdom of Saudi Arabia (KSA) notified WHO of 3 additional cases of Middle East respiratory syndrome coronavirus (MERS-CoV) infection, including 1 death.

[Read more](#)

UPCOMING EVENTS

△ 47th Annual Conference of Indian Pharmacology Society IPSCON 2014 at Guwahati Medical College, Guwahati, India from 28th to 30th December, 2014.

DRUGS UPDATES

△ **FDA Approves Namzaric: (24th December, 2014)**

Actavis plc (NYSE: ACT) and Adamas Pharmaceuticals Inc. (NASDAQ: ADMS) today announced that the U.S. Food and Drug Administration (FDA) has approved the New Drug Application (NDA) for Namzaric, a fixed-dose combination (FDC) of memantine hydrochloride extended-release, a NMDA receptor antagonist, and donepezil hydrochloride, an acetylcholinesterase inhibitor. Namzaric was approved for the treatment of moderate to severe dementia of the Alzheimer's type in patients stabilized on memantine hydrochloride and donepezil hydrochloride.

[Read more](#)

CAMPUS NEWS

△ Some of the teachers of GNIPST attended the 4th International Conference of World Science Congress at Jadavpur University on 16th

[Click here to go at the top](#)

26-12-2014

December to 18th December 2014.

△ Congratulation to Tamalika Chakraborty, Assistant Professor of GNIPST, who got 3rd prize for the poster presentation in the National Seminar on Opportunity in Medicinal Plant Research, Jadavpur University, Kolkata, India from 29th -30th November, 2014.

△ On 29th November and 30th November many of the faculty members and students of GNIPST presented their posters in the National Seminar on Opportunity in Medicinal Plant Research, Jadavpur University, Kolkata, India from 29th -30th November, 2014.

△ The teachers and students of GNIPST attended the National workshop on “Redefining the Role of Pharmacist in Health Care System” which was held in Dr. H. L. Roy Auditorium, Jadavpur University Kolkata-700032 on 16th November 2014, organised by Indian Pharmaceutical Association, Bengal Branch, Kolkata

△ Congratulation to Rupam Saha, student of M.Pharm 2nd year, who got 1st prize for the poster presentation in the National seminar on Control of Viral Menace using Delivery Design organised by Dr. B.C.Roy College of Pharmacy & AHS in association with IPA Bengal Branch.

△ On 14th and 15th November 2014 the Industrial visit of B.Pharm 2nd year students was conducted in East India Pharmaceutical Works Limited, Kolkata under the supervision of Mr. Jaydip Roy, Mr. Debabrata Ghoshdastidar, Mr. Samrat Bose, Ms Jeentara Begum, Mr. Soumya Bhattacharya and Ms. Moumita Chowdhury.

△ A Debate on ‘Unity’ was held on 14th November 2014 and the joint winner was Sreejit Roy , Bsc 2nd year and Pratik Nandi ,Bsc first year (Chairperson of debate: Dr Lopamudra Datta and Ms. Priyanka Ray).

26-12-2014

- △ On 14th November, 2014 a Quiz competition was held on 'World Diabetes Day' and the winner was Pratik Nandi and Sreyosi Dey, Bsc first year.
Runner up Anirban Roy and Ankur Mondal B.Pharm third year
(Quiz Master: Mr. Soumya Bhattacharya)
- △ A Seminar was held on 14th November 2014 World Diabetes Day on 'Angiogenesis and Role of Amino Acids' by Dr Debatosh Datta, Research scientist.
- △ GNIPST commemorated the 126th Birth Anniversary of Maulana Abul Kalam Azad on Tuesday, 11th November 2014.
- △ On 7th November 2014 the students of GNIPST participated in the 'Run for Unity' as a mark of tribute to the efforts of the country's first Home Minister Sardar Vallabhbhai Patel.
- △ Congratulation to the winner of Cricket Tournament-B.Pharm 3rd year, 2014
Runner up team-B.Sc and BHM, 2014
- △ Congratulation to the highest run scorer of Cricket Tournament- Tanmoy Das Biswas, B.Pharm 3rd year, 2014
- △ Congratulation to the highest wicket taker of Cricket Tournament-Subhodip Das, B.Pharm 3rd year, 2014
- △ Congratulation to the winner of Carom Tournament (Boys)- Sk. Abdul Salam, B.Pharm 2nd year, 2014
1st Runner up-Subhayan Dutta, M.Sc (Biotechnology Department) 2nd year, 2014
2nd Runner up-Nirupan Gupta, B.Pharm 1st year, 2014
- △ Congratulation to the winner of Carom Tournament (Girls)- Aishwarya Datta, B.Pharm 2nd year, 2014
1st Runner up-Krishnakali Basu, B.Pharm 3rd year, 2014
2nd Runner up-Rituparna Das, B.Pharm 3rd year, 2014
- △ Congratulation to the winner of Chess Tournament (Boys)- Basab Brata Dey, M.Sc (Biotechnology Department) 2nd year, 2014
1st Runner up-Ankit Chowdhury, B.Pharm 1st year, 2014

[Click here to go at the top](#)

26-12-2014

2nd Runner up-Smaranjeet Banik, B.Pharm 3rd year, 2014

△ Congratulation to the winner of Chess Tournament (Girls)-
Rituparna Das, B.Pharm 3rd year, 2014

1st Runner up-Varsha Srivastav, B.Sc(Bioptechnology Department)
1st year, 2014

2nd Runner up- Krishnakali Basu, B.Pharm 3rd year, 2014

△ The GNIPST Cricket Tournament, Carom Tournament and Chess
Tournament was held on 21st and 22nd October, 2014.

△ The Cultural Programme on Bijoya Dashami and Kali Puja was
held on 20th October, 2014

△ An exhibition on Photography and Painting was held on 20th
October, 2014

△ Congratulation to the winner of Football Tournament-B.Pharm
3rd year, 2014
Runner up team-B.Pharm final year, 2014

△ Congratulation to the winner of Table Tennis Tournament-
Krishnakali Basu, B.Pharm 3rd year, 2014
1st Runner up-Aindrila Bhowmick, B.Pharm 2nd year, 2014
2nd Runner up-Sayani Banerjee, B.Pharm 2nd year, 2014

△ The GNIPST Football Tournament (for male students) and Table
Tennis tournament (for female students) was held on 25th and
26th September, 2014.

△ On 5th September, 2014 the students of GNIPST have arranged a
wonderful Teacher's Day Programme. On behalf of all the teachers
of GNIPST I would like to thank our beloved students.

△ The Fresher's welcome programme was held on 14th August, 2014.
Welcome 1st year students.

△ We congratulate the following M.Pharm. final year students who
have made their positions in different pharmaceutical companies.

Anirban Banerjee (Emami Ltd.)

26-12-2014

Mahender Roy (Stadmed private Ltd.)

△ We congratulate the following B.Pharm. final year students for their success.

Samadrita Mukherjee (Abbott India Ltd.)

Suman Sarkar (Tata Medical Centre-Apollo Pharmacy)

Shrewashee Mukherjee (Fresenius Kabi-Parenteral Nutrition)

Avishek Naskar (Glaxo SmithKline-Marketing)

Bappaditya Manik (USV Limited)

Sarbani Das (Nutri Synapzz-Marketing)

Ankita Roy (Nutri Synapzz-Marketing)

Rahul Mitra (B M Pharmaceuticals-Production)

△ The following B.Pharm. final year students have qualified, GPAT-2014. We congratulate them all.

Utsha Sinha

Satarupa Bhattacharya

Sandipan Sarkar

Purbali Chakraborty

△ Reminiscence, 2014(GNIPST Reunion) was held in College campus on 2nd February,2014.

△ 1st Annual Sports of GNIPST was held on 3rd February,2014 in College campus ground.

△ 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.

26-12-2014

STUDENTS' SECTION

❖ WHO CAN ANSWER FIRST????

- ✓ *Which company was founded in 1986 by Charles E Bugg and John Montgomery?*

Answer of Previous Issue's Questions:

A) Antigen

Identify the person



Answer of Previous Issue's Image:

Baraimambara, Lucknow

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

EDITOR'S NOTE

It is a great pleasure for me to publish the 4th issue of 40th 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

[Click here to go at the top](#)

26-12-2014

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

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

[Click here to go at the top](#)

26-12-2014

△ *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, 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.

[Click here to go at the top](#)

26-12-2014

- 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.
 - 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.



26-12-2014

**GIP JOBS: Dr. Reddy's Laboratories hiring Freshers 2014 for
Pharmacology & Biology. Vacancy Apply Online-
[http://www.gipjobs.com/2014/12/dr-reddys-laboratories-hiring-
freshers.html? m=1](http://www.gipjobs.com/2014/12/dr-reddys-laboratories-hiring-freshers.html? m=1)**

GNIPST BULLETIN

[Click here to go at the top](#)