



About GIPS...

Girijananda Chowdhury Institute of Pharmaceutical Science (GIPS) was established in the year 2007 as the first non-government pharmacy institute in the state of Assam under the aegis of Shrimanta Shankar Academy (SSA), a registered service organization set up in the year 1992 to make significant contribution for social upliftment through education and also to inculcate among the youth a sense of discipline. The motto of the society is 'truth', 'Discipline' and 'excellence' and ever since its aim has been to establish a morally sound education system which not only produce competent professionals but also excellent human beings contributing towards the welfare of the society. The Institution is affiliated to Gauhati University and Assam Science and Technology University, Assam, approved by All India Council of Technical Education (AICTE), New Delhi and recognised by Pharmacy Council of India (PCI), New Delhi. In keeping with its objective of providing the best possible pharmaceutical education, the college has built up a strong infrastructure. This comprises of highly knowledgeable faculty, most of them either hold or are registered for doctorates. Continuous interaction with industry is maintained to ensure that the learning program remains relevant to the changing trends in pharmaceuticals. The college is constantly seeking to upgrade the quality of its education and actively participates in research to remain on the cutting edge.

The President Voice....



Mr Ratul Das, President, Shrimanta Shankar Academy

I am highly delighted to know that the news letter "GIPS-LET" (Vol.6, Issue-1) is on the verge of publication. I hope this publication will be able to provide recent news regarding the progress being made by this institution in the field of pharmacy for last couple of years. I convey my best wishes to the editor and his team for their endearing endeavour to bring out this volume on time.

The principal words...



Prof (Dr.) Gouranga Das, Principal (In-charge), GIPS

Girijananda Chowdhury Institute of Pharmaceutical Science is an excellent Pharmacy Institute; as our faculty and non teaching staff are engaged to maintain the quality of education throughout the year. The under graduate course (B.Pharm) is provisionally accredited by National Board of Accreditation (NBA) for 2016-17 to 2018-19 academic years and this Institute is placed in NIRF-2018 Rank Band 51-75 of Pharmacy institutes in India by MHRD, Govt. of India. Apart from advanced teaching and learning programme, this Institute conducts seminars, symposium and workshops on different relevant topics, training, free health care camp, gender sensitization programme, blood donation camp on regular manner. Achievement of Inter College Cricket tournament championship and taking part of faculties in Northeast First International Half Marathon, 2018 make the institute unique one. Through placement cell, our students are been placed in different Pharma-Industries in Manufacturing, Quality Control, Quality Assurance and in Marketing field. In addition to that many students are also engaged in drug regulatory and hospital sector in order to serve the society

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The editor speaks....



**Mr Biswajit Dash, Asst Prof.
Deptt. of Pharmaceutical Chemistry**

It gives me immense pleasure that Girijananda Chowdhury Institute of Pharmaceutical Science (GIPS) is going to publish the 6th volume, issue-1 of news letter, GIPS-Let. GIPS is well known for inculcating the multifarious qualities in students for their round development. This edition of GIPS-Let highlights the news regarding recent development in research field in pharmaceutical sector, different activity/events at GIPS, achievements of GIPS, campus recruitment drive etc. The editorial board is grateful to the president, SSA, for encouraging us to bring out this issue. We are also thankful to the principal, GIPS for inspiring and guiding us throughout the publication.

**Mr. Biswajit Dash,
Chief Editor, (Gips Let)**

Editorial Board members



Dr Abdul Baquee Ahmed



Dr Bhanu Pratap Sahu



Dr Bipul Nath



Dr Dipankar Saha



Dr Jashabin Chakraborty



Dr Trishna Das



Mr Dibyendu Shil



Mr Jiban Debnath



Current Pharma News

Cure of alopecia areata after eradication of H.pylori infection: A new association found.

Alopecia areata is a disease of the hair follicles, with strong evidence supporting an autoimmune origin, although the exact pathogenesis of the disease is not clear. Alopecia areata has a frequency ranging from 0.7% to 3.8% in patients attending dermatology clinics, affects both sexes, and a familial occurrence is often reported. The pattern of hair loss can vary and can affect any part of the body. Alopecia areata frequently occurs in association with other autoimmune diseases, including autoimmune thyroiditis, psoriasis and Sjögren syndrome, among others.

Helicobacter pylori (H. pylori) is a microaerophilic Gramnegative bacterium that colonizes the gastric mucosa and is present in around 50% of the world's population, with varying prevalence rates between 7% in the Czech Republic and 87% in a South African population. In the case of Medellín, Colombia, prevalence of H. pylori infection in children under 12 years is 60.9% and in adults, it is 77.2%. H. pylori infection has been associated with the pathogenesis of gastric disorders such as gastritis, duodenal and gastric ulcers, gastric cancer, mucosa-associated lymphoid tissue lymphoma, and a variety of extra-digestive disorders, many of them clearly identified as immune-mediated, such as idiopathic thrombocytopenic purpura, autoimmune

thyroiditis, Sjögren's syndrome, rosacea and psoriasis. A case of a 43-year-old man with patchy alopecia areata and H. pylori infection is presented. The patient had hair regrowth after bacterial eradication. Where antibodies developed against H. pylori cross-react with autoantigens to cause tissue damage, as has been reported in atrophic gastritis, chronic gastritis, chronic idiopathic thrombocytopenic purpura, Hashimoto's thyroiditis, atherosclerosis, arterial hypertension, unstable angina pectoris, ischemic heart disease, Alzheimer's disease, systemic sclerosis, central serous chorioretinopathy, iron deficiency, autoimmune pancreatitis, and chronic urticaria.

Source-World J Gastroenterol 2018 ; 17(26): 3165-3170
Submitted by- Bhargab Deka, 6th semester, GIPS.

FDA approves adcetris as First-line combination therapy for classical Hodgkin lymphoma:

Officials with the FDA have expanded the approval of brentuximab vedotin (Adcetris) to include treatment-naïve adults with stage 3 or 4 classical Hodgkin lymphoma (cHL), in combination with chemotherapy, according to a press release. Brentuximab vedotin combines an antibody and a drug that targets CD30 on lymphoma cells. The FDA previously authorized brentuximab vedotin to treat cHL after relapse and after stem cell transplant in high-risk patients. Additionally, the drug is approved to treat systemic anaplastic large cell lymphoma (ALCL) after treatment failure and primary cutaneous ALCL after treatment failure.

The new approval for adults with cHL was based on clinical trial findings that compared brentuximab vedotin plus chemotherapy (Adriamycin [doxorubicin], vinblastine and dacarbazine [AVD]) with chemotherapy alone. The study investigated modified progression-free survival, which measured time to disease progression, death, or new treatment among patients who did not achieve a complete response, according to the release.

Source: Pharmacy Times
Submitted by: Debabrata Nath,
B.Pharm 4th sem

Cambicol a new molecule

Till today there is no cure for Alzheimer's disease. But there are some medications that can ease some of the symptoms. A compound called cambinol shows great promise as a future Alzheimer's drug. The molecule has halted the spread of the toxic brain protein tau in cell cultures and mice. A brain protein called tau is known to play a key role in the development of Alzheimer's disease. In a healthy brain, the tau protein ensures that the tracks stay straight by binding to microtubules, which form the skeleton of the cells. But in Alzheimer's, tau detaches and "falls off" from the skeleton, creating so-called neurofibrillary tangles (aggregates of hyperphosphorylated tau proteins that are used as a marker) instead, which causes the brain cells to die. Analyzing the behavior of the tau protein in vitro (in cell cultures) and in vivo (using mouse models), the researchers found that cambinol has the ability to do just that: it hijacks the transfer of tau by blocking an enzyme called nSMase2, which is key for producing the tau-carrying exosomes. The researchers think that these hopeful results are due to cambinol inhibiting the activity of the nSMase2 enzyme, and that this mechanism could provide a great basis for future drug development. In fact, in a second in vivo experiment, the researchers saw that the activity of the enzyme was reduced in the brains of mice treated with cambinol. This was particularly promising. "Getting molecules into the brain is a big hurdle, because most drugs don't penetrate the blood-brain barrier," explains John. "Now we know we can treat animals with cambinol to determine its effect on Alzheimer's pathology and progression." To the authors' knowledge, this was the first study to have shown that cambinol suppresses the activity of the nSMase2 enzyme. The findings bring us closer to new treatments for Alzheimer's disease, as well as for other conditions characterized by tau aggregates.

Source: Medical News Today
Submitted by Khyatirupa Sarma
B.Pharm 4th sem

Technological Advancement in Pharmacy



The world is at high pace towards technology and 4th digital revolution can well articulate how thirsty different fields of work are towards embracing technology in their daily practical field of works. However, the need for technology should not be a surprise nowadays where E- tools are on the lead worldwide in any field of work. Technology is increasingly being seen as the currency of the 21st century. The health sector in years to come will increasingly depend on ability to generate new ideas, processes and solutions, and through the process of technological innovation convert knowledge into social good and economic wealth. Pharmacists are already using IT systems most especially in developed countries; to support their daily work and, when considering the IT requirements for emerging working practices. Here are some of the technological systems applied in pharmacies.

a. Electronic Prescribing (EP)

Electronic Prescribing systems are a technology framework which allows physicians to write and send prescriptions electronically instead of handwriting. Electronic prescriptions provide an advantage to pharmacist to no longer interpret handwritten prescriptions and save them to squint suspiciously at prescription trying to assure the accuracy of what is written.

E- Prescribing software system enhances patient safety by availing information related to the patient's drug history and dosage regimen which can be efficiently monitored through the software charts. Moreover, potential errors regarding drug-drug interactions, drug-allergy interactions, diagnoses, body weight, age, drug appropriateness, and correct dosing are eliminated. Electronic Prescribing systems was pioneered in the US in the early 1990s.

b. Automated dispensing

Robots have been used in logistics and distribution for many years, but only recently in pharmacy. Pharmacy robots have been shown to reduce the incidence of dispensing errors, improve the speed and efficiency of the dispensing process, and optimize use of space in the pharmacy. Robot has the potential to handle high volumes of dispensing in community pharmacies, or dispensing "hubs", and to release pharmacists to develop and deliver patient-centered services.

c. Mobile technology

The use of mobile telephones is widespread in society. Some pharmacies are using text alerts to remind patients that repeat prescriptions are ready or to offer services, but sophisticated apps have been developed for disease monitoring, for example, recording of peak flow readings in asthma, monitoring of blood glucose levels, medication adherence support and health education. These apps will have a greater impact on pharmacy practice in future.

d. Telecare

Telecare involves the use of digital communications technology (audio and visual) to provide healthcare consultations and services to patients remotely at home. Telecare has various potential benefits: it puts patients at the center of their care and supports personalized medicine; it improves access to healthcare by reducing the need for hospital attendance (for people with poor mobility, or those in remote areas); and it can reduce the travelling times and costs of healthcare professionals. Developed technological systems in pharmaceutical sector and healthcare systems in general are not solely experienced in developed countries, even in developing countries though less pronounced technology does exist. Rwanda in October, 2016 exemplify what technology means in health sector as the first country to launch drone delivery program, which will easily transport medical products to remote parts of the country. Pharmacists already on the field need to ensure that they harness technologies in a way that will support their professional aspirations and that they are not bypassed in the IT initiatives.

Source

<https://www.marlinfinance.com/healthcare-equipment/high-tech-innovations-in-the-pharmacy/>

Submitted By

Dhiman jyoti Nath, B.Pharm 4th sem.

Activity/Events at GIPS

Marathon



GIPS had organised a marathon race on 20th January, 2018. Both GIMT and GIPS staff members and student had participated in this event. Prof (Dr.) Gourangas Das, Principal In-charge, GIPS had successfully completed 14 km run marathon and secured third position in this event.

INDEPENDENCE DAY CELEBRATION



Independence Day was celebrated at GIPS on 26th January, 2018. Mr Ratul Das, President, SSA was invited as the guest for this occasion.

NATIONAL SCIENCE DAY CELEBRATION



National Science Day was celebrated at GIPS on 28th February 2018. In this regard a symposium was organised based on "Science and technology in sustainable future". Mrs Purnima Devi Barman, Green Oscar Awardee and Prof. D.K. Goswami, USTM, Meghalaya (Former HOD, deptt of Zoology, Gauhati University) were invited as the speaker for this occasion.

INTERNATIONAL WOMEN'S DAY CELEBRATION



International women's day was celebrated at GIPS on 8th march 2018. All the faculty members have participated in this occasion.

SEMINAR/WORKSHOP ORGANISED BY GIPS.



- One day seminar was organised by GIPS on Innovation Yatra which is based in Intellectual Patent Right (IPR) on 29th January 2018. Mr Dr Vijay Kumar Shivpuje, Director, Patlex Business Solution, Mumbai was invited as the speaker for this occasion.



- One day seminar was organised by GIPS based on "Entrepreneurial skill: A tool for gender sensitisation and women empowerment" on 7th march 2018. Kashmiri Borkakoti Nath, President, North-east food forum and Dr Lakee Mai Devi, Associate professor, Department of centre of women study at Guwahati University Institute of Science and Technology, Dr. Bula Choudhury, senior scientist, Guwahati Biotech Park, aminogaon were invited as speaker for this occasion.



- One day workshop on "Intellectual Property Rights and Basics of Patent Practice in India" was organised on 7th may 2018 by IPR cell of GIPS for students, research scholar and faculty members. The main objective of the workshop was to create awareness among participants about the basics of intellectual property rights especially patents and to guide the inventors in respect of patenting their innovation. Prof (Dr) Pritam Mohan, College of Veterinary Sciences, Assam Agricultural University, Pallavi Boram, Advocate, Proprietor PCB Legalis, Guwahati and Mr. Satyoki Koundinya,



One day seminar was organised by GIPS on “Government Policies and Financial Support for Entrepreneurs” on 18th May, 2018. Nawab Senaz Famin Haque, Manager, SBI,SMECCC, Guwahati and Mrs Leena Muhurle, Manager, NABARD, Dispur were invited as the speaker for this occasion.

Koushik Baruah Memorial Cricket Tournament (KBM, season-6) was organised by GIPS



from 27th February to 29th February, 2018 among all the technical institutions of Assam. GIPS had won the tournament.

HEALTH CAMP



One day free health camp was organised by GIPS at Palshbari Anchalik High School, Palashbari, Guwahati. More than two hundred people have attended the free health check up programme

ACHIEVEMENT OF GIPS

NATIONAL INSTITUTIONAL RANKING FRAME WORK-2018 (NIRF-2018)

Institute is placed in NIRF-2018 with Rank Band of 51-75 among all the Pharmacy institutes in India by MHRD, Govt. of India

FACULTY ACHIEVEMENT:

International half marathon was organised by Star Cement. Prof (Dr) Gouranga Das, Principal in-charge of GIPS had completed 10,000 m run successfully.



Dr. Bhanu Pratap Sahu, Assistant Professor, Department of Pharmaceutics, GIPS has published a book entitled "A review on Cancer and stem cell Research", Published by Lambert Publisher, Germany.

STUDENT ACHIEVEMENT OF GIPS

Graduate Pharmacy Aptitude Test (GPAT-2018)

Nine students GIPS have qualified in Graduate Pharmacy Aptitude Test (GPAT-2018).



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Shilpa Paul



Abinash Baruah



Sujata paul



Deepa Nag



Padmanabh Pegu



Tejendra Saikia



Natasha manners



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Mr Abinash Baruah and Mr Padnabh Pegu of VIII semester students GIPS has been selected for Master in Pharmaceutical Science (MPharm) Degree programme at IIT, BHU.

Poster Presentation by The Students of GIPS

- Mr Chnimoy Bhuyan, M Pharm students of GIPS has presented his research paper on “Formulation of cream containing herbosome of polyherbal extract for repellency effect” at National Conference for Recent Advances in Science and Technology, ASTU, Guwahati.
- Mr Tejendra Saikia, M Pharm students of GIPS has presented his research paper on “formulation and evaluation of mucoadhesive buccal tablets” at National Conference for Recent Advances in Science and Technology, ASTU, Guwahati.
- Miss Dipriya Das, M Pharm students of GIPS has presented his research paper on “ Formulation and evaluation of mucoadhesive buccal patch of Asenapine Maleate” at National Conference for Recent Advances in Science and Technology, ASTU, Guwahati.
- Miss Runa Chakraborty, M Pharm students of GIPS has presented his research paper on “Formulation and evaluation of injectable insitu gel of Losartan Potassium using thermosensitive polymers for the treatment of hypertension” at National Conference for Recent Advances in Science and Technology, ASTU, Guwahati.
- Miss Ankita Sarma, M Pharm students of GIPS has presented his research paper on ‘Formulation and in-vitro/in-vivo evaluation of Albendazole for anthelmintic activity” at National Conference for Recent Advances in Science and Technology, ASTU, Guwahati.
- Mr Himanshu Deka, M Pharm students of GIPS has presented his research paper on “Development and evaluation of ferromagnetic polymeric particle suspension of amoxicillin and clarithromycin dual regimen effective against H.Pylori infection” at National Conference for Recent Advances in Science and Technology, ASTU, Guwahati.
- Miss Rumpa Das, M Pharm students of GIPS has presented his research paper on “Lipid polymer hybrid nanoparticle as brain targeted drug delivery system for treatment of parkinson’s disease” at National Conference for Recent Advances in Science and Technology, ASTU, Guwahati.
- Nazneen Dewan, M Pharm students of GIPS has presented his research paper on “Formulation and evaluation of colon targeted microsphere of etodolac form isolated pectin from different varieties of banana in Assam” at National Conference for Recent Advances in Science and Technology, ASTU, Guwahati.
- Md Azmal Haque, M Pharm students of GIPS has presented his research paper on ‘Formulation and evaluation of piperine for enhanced anti-cancer activity” at National Conference for Recent Advances in Science and Technology, ASTU, Guwahati.

CAMPUS RECRUITMENT DRIVE

GIPS had arranged campus recruitment for the students VIII semester. Six students have been selected for Systopic Laboratory Pvt Ltd. Eleven students have been selected for Hetero Health Care Ltd. Four students have been selected for Troika Pharmaceutical Ltd.



Campus interview by Systopic lab, pvt ltd.



Campus interview by Hetero Healthcare Ltd



Campus interview by Troikaa Pharma Ltd



Campus interview by Ozone Pharmaceuticals



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