



PRATIKSHA INSTITUTE OF PHARMACEUTICAL SCIENCES

(Under Pratiksha Educational Trust)



<https://pips.pratiksha-edu.in/>



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pratikshanursing@gmail.com



CHANDRAPUR ROAD,
PANIKHAITI, GUWAHATI-26,
ASSAM



About PIPS

‘Pratiksha Institute of Pharmaceutical Sciences’ is approved by Pharmacy Council of India (PCI) and recognized by Govt. of Assam. It was established in the year 2018 with the aim of imparting top quality education, research and practice with the ultimate goal of providing excellent platforms to create leaders and generate new knowledge for society.

‘Pratiksha Institute of Pharmaceutical Sciences’ fosters a learning-centred, research-oriented and society beneficial educational environment that encourages individuals to make far reaching contributions in their professional field.

Pratiksha Institute of Pharmaceutical Sciences is having two courses, Bachelor in Pharmacy (B.Pharmacy) and Diploma in Pharmacy (D. Pharmacy) .



Dr. Pramod Kumar Sharma
CMD, Pratiksha Group

Pratiksha Institute of Pharmaceutical Sciences

Approvals and Affiliations:



RECOGNISED BY
GOVT. OF ASSAM



APPROVED BY PCI



AFFILIATED
TO SSUHS



AFFILIATED
TO ASTU

Pratiksha Institute of Pharmaceutical Sciences, Collaborations and MoU

- **Phytochemistry Laboratory, Department of Biotechnology, National Institute of Technology, Arunachal Pradesh.**
- **Signova Healthcare Pvt. Ltd., Amingaon, Guwahati, Assam, since 2020.**
- **Doson Chemicals Pvt. Ltd., Gopinathnagar, Guwahati, Assam, since 2020.**
- **Cure Sure Pharma, G.S Road, Assam, since 2020.**
- **Bee Dee Pharmaceuticals, Kalapahar, Guwahati, Assam, since 2020.**
- **Ozone Pharmaceuticals Ltd., Amingaon, Assam, since 2020.**
- **Phoenix Laboratories, Mirza, Assam, since 2021.**
- **Pratiksha Hospital, Borbari, Guwahati, Assam, since 2021.**
- **Concord Centre for Management, Guwahati, Assam, since 2020.**
- **Central Agricultural University, Imphal, Manipur, since January 2023.**
- **Guwahati Biotech Park, Amingaon, Kamrup, Assam, (Under process).**



Achievements

ASSAM SCIENCE & TECHNOLOGY UNIVERSITY (ASTU)

Gold Medalist from PIPS



Ms. Sneha Paul
Gold Medalist

Assam Science and Technology University
Batch: 2018-2022



Ms. Alka Gupta
Gold Medalist

Assam Science and Technology University
Batch: 2019-2023

**Rank Holder of PIPS under SRIMANTA SANKARADEVA
UNIVERSITY OF HEALTH SCIENCES (SSUHS)**



Mr. Rejaul Karim
University Rank 5th
D. Pharm Part-II
Batch: 2021-2023



Ms. Muftika Ali Moww
University Rank 2nd
D. Pharm Part-I
Batch: 2022-2024



Mr. Abul Hassan
University Rank 8th
D. Pharm Part-I
Batch: 2022-2024



Ms. Bhanita Kalita
University Rank 3rd
D. Pharm Part-II
Batch: 2019-2021



Mr. Baharul Basit
University Rank 1st
D. Pharm Part-II
Batch: 2018-2020

Competitive Examination

GPAT 2024 qualifiers



Mr. Partha Pratim Das
AIR 1368

GPAT 2023 qualifiers



Mr. Partha Pratim Das
AIR 1386



Ms. Amrita Mahajan
AIR 1772



Md Matiur Rahman
AIR 3043



Mr. Dhruba Jyoti Mili
AIR 3366



Ms. Alka Gupta
AIR 4070



Mr. Latumoni Das
AIR 4384



Mr. Rituparna Kalita
AIR 4724



Mr. Tarh Gungha
AIR 8204



Mr. Toli Dirchi
AIR 10115



Mr. David Lalremruata
AIR 16046



Mr. Chirag Rema
AIR 18534



Ms. Ngurup Lhamu
AIR 24552



Ms. Chatirenla Walling
AIR 15085

GPAT 2022 qualifiers



Ms. Sneha Paul



Ms. Dalariti N.
Myllemngap



Mr. Alok Tondrang



Mr. Tanuj Sharma



Ms. Easter Grace
Marbaniang



Mr. Toli Dirchi



Mr. Tarh Gungha



Ms. Magnify Dkhar



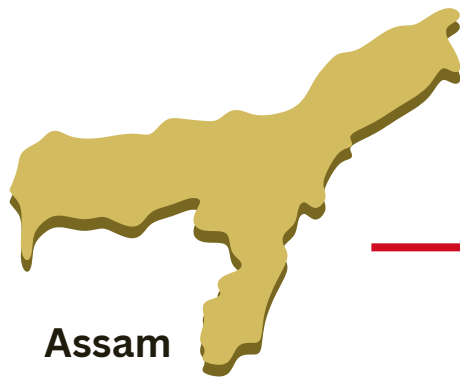
Mr. Jessai Darnei

ACADEMIC ACHIEVEMENT

By our students:

- **5 students** secured position under top 10 ranks in **D. Pharm Part-II final examination, Dec 2021**.
- 3 students from second semester, 7 students from 4th semester, 9 students from 6th semester and 15 students from 8th semester secured under **top 10 in B. Pharm final examination, 2022**.
- 9 numbers of students have qualified **Graduate Pharmacy Aptitude Test (GPAT) 2022**.
- 2 numbers of students have **enrolled in NIPER Kolkata in the year 2022** for pursuing higher studies.
- **Qualified Graduate Pharmacy Aptitude Test (GPAT):** 09 numbers of student in the year **2022** and 13 numbers of student in the year **2023**.
- Student have enrolled in different prestigious organization of Pharmacy for their higher studies. In 2022, 02 numbers of students have enrolled in **NIPER Kolkata** and 03 numbers of students have enrolled in **Dibrugarh University**. In 2023, 07 numbers of students have qualified **NIPER entrance examination, 2023** and 03 of them have enrolled in **NIPER Raebarelli** and **NIPER Ahmedabad** and 5 numbers of students have enrolled in **Dibrugarh University**. Also, many students have enrolled in **reputed govt. and non-govt organization for their higher studies**.
- Awarded with **Gold medals by Assam Science and Technology University** in the year 2022 and 2023.
- **5 numbers of student from batch 2018-2022 B. Pharm** secured position under **top 10 ranks of Assam Science and Technology University**.
- **4 numbers of student from batch 2019-2023 B. Pharm** secured position under **top 10 ranks of Assam Science and Technology University**.
- **Two students secured 2nd and 8th rank in from D. Pharm Part-I** and **one student secured 2nd rank from D. Pharm Part-II in final examinations conducted by Srimanta Sankaradeva University of Health Sciences 2023**.
- **Students have been employed by reputed Pharmaceutical Industries like Sun Pharma Guwahati, Ajanta Pharma Limited Guwahati, Eris Life Sciences Guwahati, Signova Pharma Pvt Limited Guwahati etc.**
- All of our **D. Pharm pass out batch students** have **undergone Hospital Training in various hospitals as per requirement**.

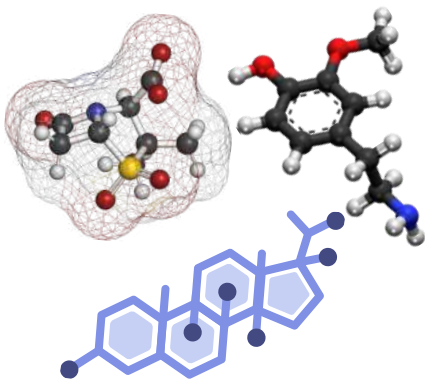
Research Activities at Pratiksha Institute of Pharmaceutical Sciences"



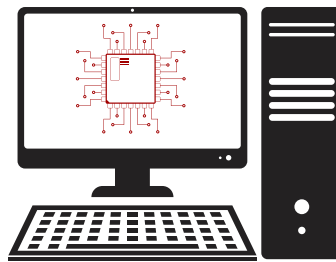
Indigenous plants of Assam



PIPS



Identified molecules and phytocompounds



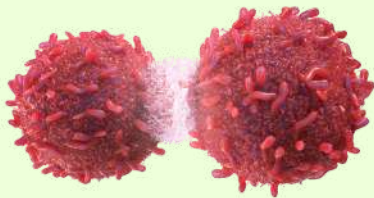
High Performance Computational Screening



Faculty of PIPS identifying active compounds from these plants



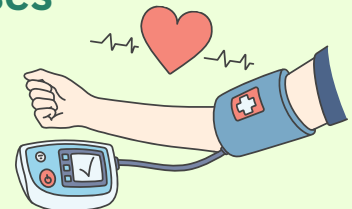
Curement of different diseases



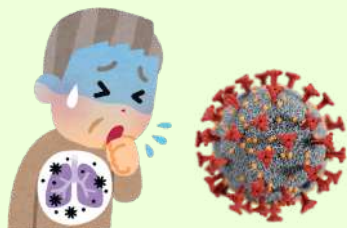
Cancer



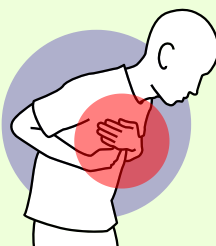
Anti-diabetic



High Blood pressure



Anti-microbials



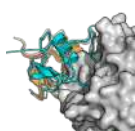
Heart diseases



Anti-malarial

CENTRE FOR COMPUTATIONAL DRUG DISCOVERY

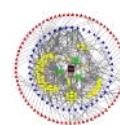
The Computational Drug Discovery (CDD) center at Pratiksha Institute of Pharmaceutical Sciences is a specialized facility focused on harnessing computational methods and technologies to expedite the process of drug discovery. By leveraging computational simulations, virtual screening, and predictive modeling, we aim to streamline the drug discovery process, reduce costs, and expedite the development of innovative medicines to address critical healthcare challenges



Molecular Docking



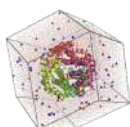
Virtual Screening



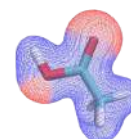
Network Pharmacology



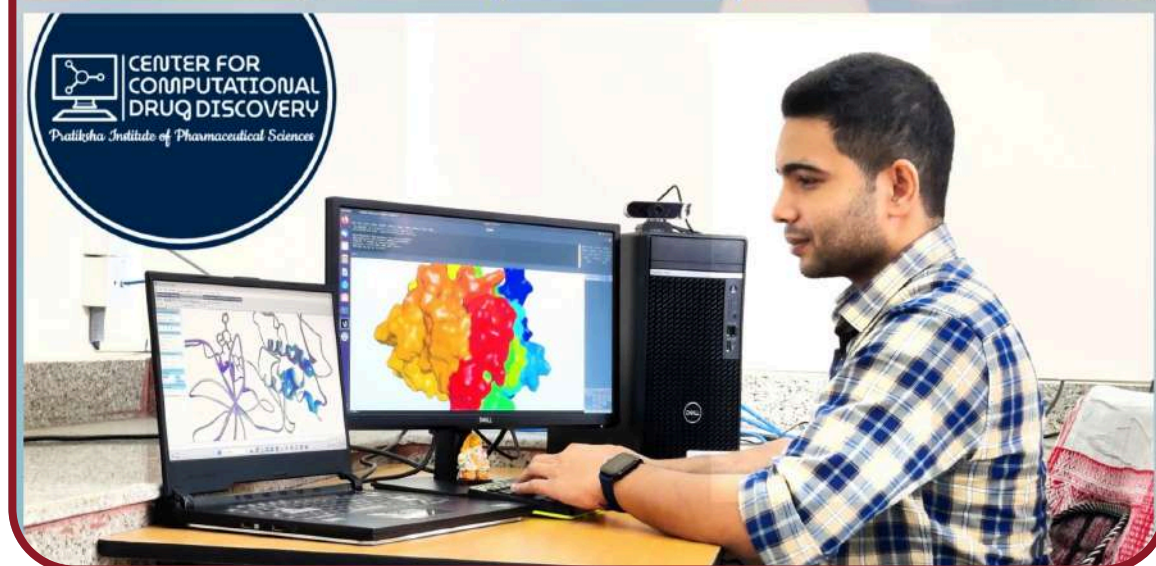
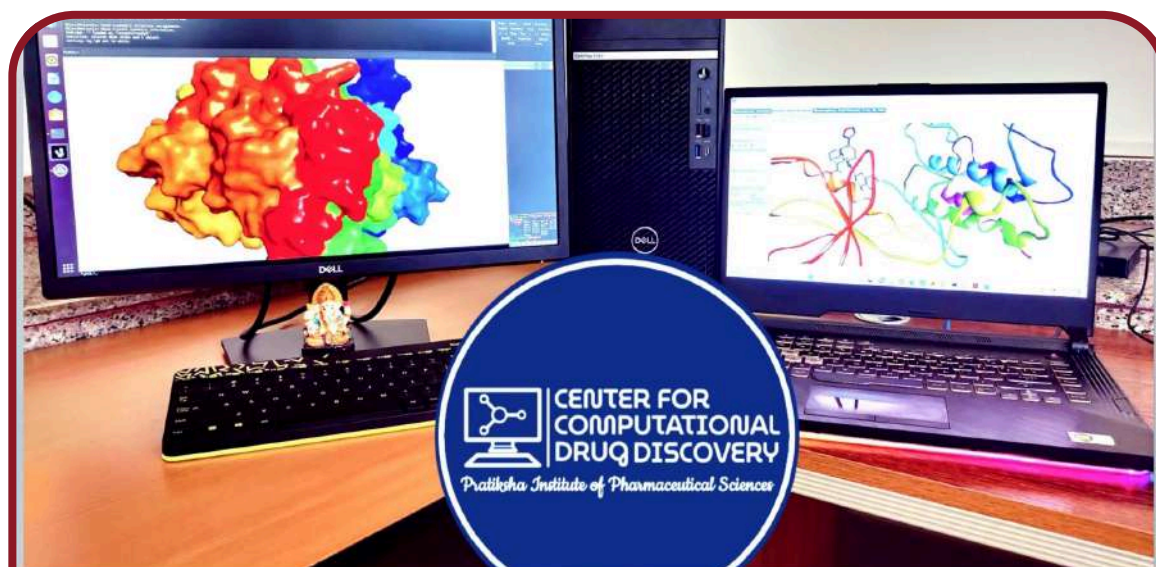
Vaccine Designing



MD simulation



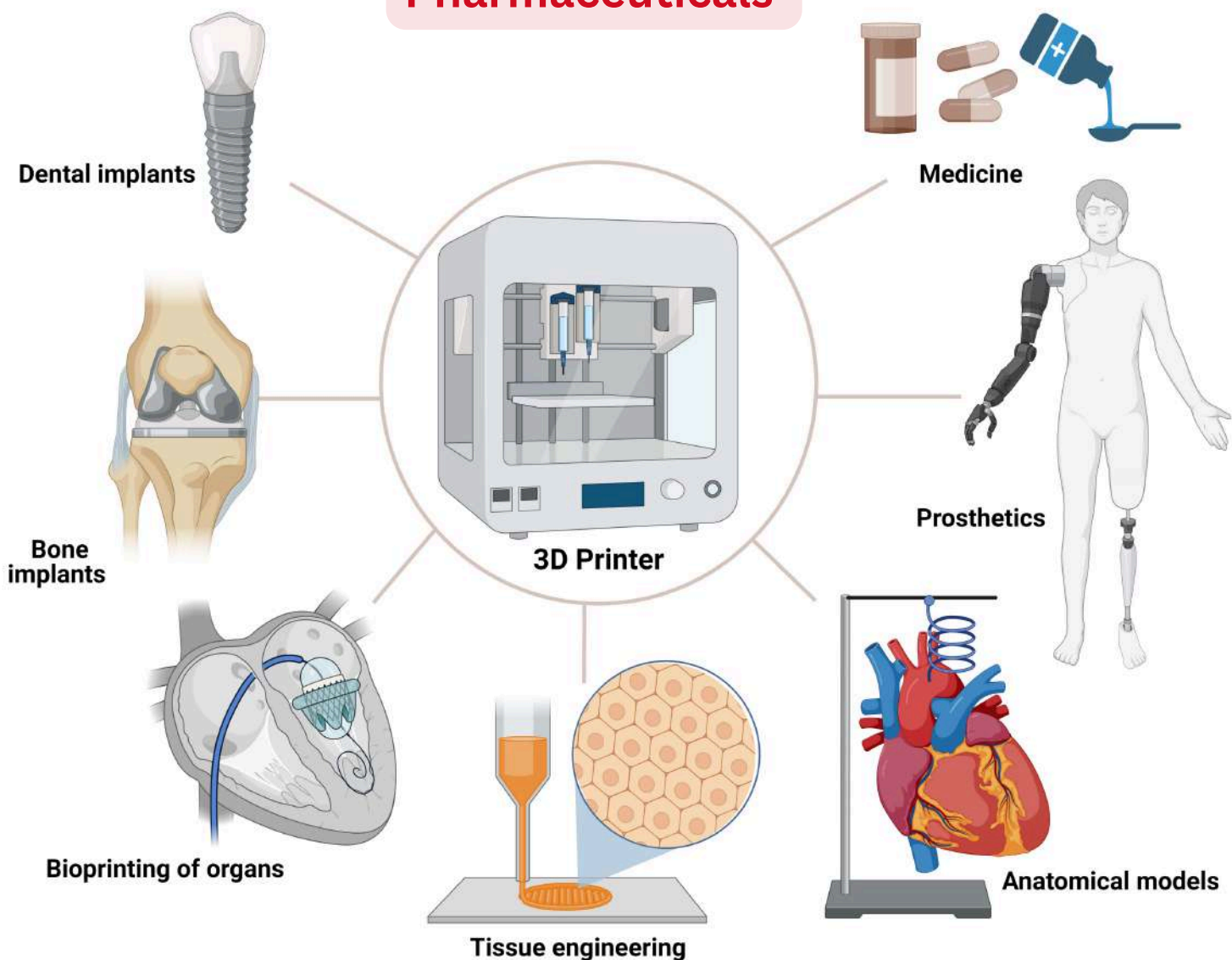
Density functional theory (DFT) studies



3D PRINTING TECHNOLOGY

The 3D printers at our institute, used for research by Prof. Dr. Peeyush Sharma, plays a pivotal role in advancing pharmaceutical studies. It enables the creation of personalized drug formulations, polypills, and custom medical devices with precise dosage control and tailored release profiles. The printer supports on-demand production, enhancing research in drug delivery systems and novel formulations. This capability fosters innovation in personalized medicine and pharmaceutical technology, addressing real-world challenges in patient care and treatment adherence.

Some Applications of 3D printer in Health and Pharmaceuticals



"An Overview of the Current Research Scope and Activities at Pratiksha Institute of Pharmaceutical Sciences"



Our institute is currently carrying out in research based on the following:

1. Identification of phytocompounds: The first step in discovering drugs from plants is to identify plants that have a history of use in traditional medicine or have been found to have potential pharmacological activity through screening programs. This is typically done through ethnobotanical studies or through scientific literature research.
2. Extraction of phytocompounds: Once a plant has been identified as having potential medicinal properties, the next step is to extract the active compounds from the plant material. This can be done using a variety of solvents, including water, ethanol, and chloroform.
3. Isolation of phytocompounds: After the active compounds have been extracted from the plant material, they must be isolated from the other compounds present in the extract. This is typically done using chromatography techniques, such as high-performance liquid chromatography (HPLC).
4. Characterization of phytocompounds: Once the active compounds have been isolated, they must be characterized to determine their chemical structure and properties. This can be done using spectroscopic techniques, such as nuclear magnetic resonance (NMR) spectroscopy and mass spectrometry.
5. Biological testing: Once the active compounds have been identified and characterized, they must be tested for their biological activity. This can be done using in vitro and in vivo assays to determine their efficacy, toxicity, and pharmacokinetics.
6. Optimization: After the active compounds have been identified and tested, they can be optimized to improve their pharmacological activity, reduce toxicity, and improve their drug-like properties. This can be done using medicinal chemistry techniques, such as structure-activity relationship (SAR) analysis and computer-aided drug design (CADD).

LIST OF SOPHISTICATED INSTRUMENT PRESENT AT PIPS

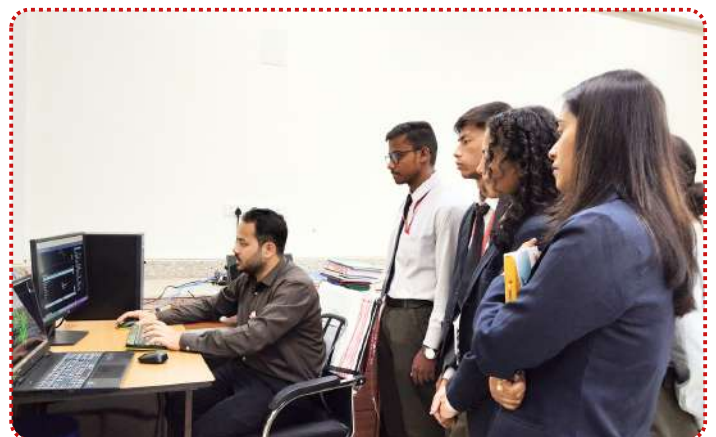
1. High processing power computer system for CADD
2. UV-Spectrophotometer
3. Tablet Dissolution Test Apparatus
4. Digital pH meter (Metler Toledo)
5. HPLC Agilent Technologies
6. Tablet Punching Machine
7. Universal oven
8. Analytical Balance (Shimadzu)



Machine room



Central Instrumentation Room (CIR)





**Fully Equipped
Advanced
Laboratories
for M.Pharm
Scholars:
Pioneering
Pharmaceutical
Science and
Discovery**



Achievement in Different Competitions



Partha Pratim Das (B. Pharm 7th sem) has secured Third position in the poster presentation on the topic entitled “Spermicidal Activity of Food of Manipur” in the International Conference ADTU PHARMACON 2.0 held at Assam Down Town University, Guwahati, Assam on 13th and 14th October, 2023.



Mr. Ananta Saikia (Associate Professor, PIPS) and Partha Pratim Das (B. Pharm 7th sem) has secured Third position in the poster presentation Competition on the topic entitled “ Quantum Dots: An Emergent Technique in Cancer Therapy” at PHARMAGENESIS 2023 Organized by Rahman Institute of Pharmaceutical Science and Research (RIPSAR) on the occasion of World Pharmacist Day held on 25th September 2023.



Students' Volleyball Team has secured the Runners-up position at the Inter College Volleyball Tournament Organized by Regional Institute of Science and Technology during their annual fest ESPLENDIDEZ-24

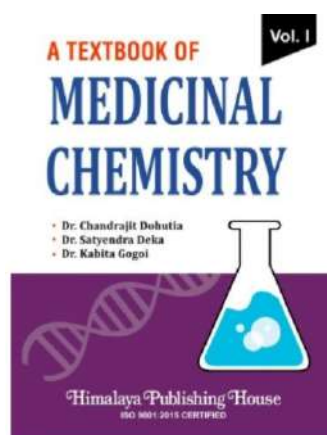
ACHIEVEMENT BY FACULTY

All the faculty members of PIPS are pursuing **Ph.D**, dedicated to both academics and research, and actively engaged in professional development.

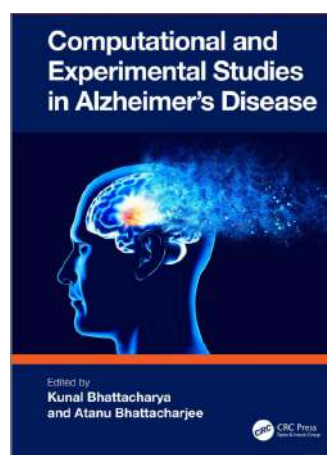


PIPS received a research grant from the (DST-SERB) for a project titled, "Antipyretic and Antimalarial Evaluation, along with Formulation Development Studies, of Dried Fish Extracts and Fermented Fish Preparations from the Puntius Species."

Publications:



Dr. Chandrajit Dohutia, former Associate professor of PIPS published a book titled "A TEXT BOOK OF MEDICINAL CHEMISTRY"



Mr. Kunal Bhattacharya, Assistant professor of PIPS published a book in "Taylor and Francis" titled "Computational and Experimental Studies in Alzheimer's Disease"

- The faculty members published **35 research and 05 review articles** in the year 2023-24 in reputed journals under famous publishers like **Frontiers, Elsevier, Wiley, Taylor and Francis, RSC Advances, Springer Nature and MPDI.**

ACHIEVEMENT BY FACULTY

Patents Awarded:

- Dr. Satyendra Deka Principal of PIPS was awarded a patent by The Patent Office, Government of India, titled **“AI-ENABLED DEVICE FOR DETECTION OF BREAST CANCER.”**
- Mr. Freddy Teilang Nongkhlaw Assistant professor of PIPS was awarded patent with patent grant number: ‘20 2022 106 500’ titled **“A solid dispersion of an antifungal agent in a gel formulation for the improvement of bioavailability.”**
- Kunal Bhattacharya and Ramen Kalita Assistant professors of PIPS was awarded patent with patent grant number: 2022/00131 titled **“Bioinformatics Platform for identification of Quercetin Derivatives as immunity booster molecules against SAR COV-2.”**
- Freddy Teilang Nongkhlaw Assistant professor of PIPS was awarded patent with patent grant number: ‘20 2022 105 431’ titled **“Novel formulation of Silymarin for treatment of Hepatitis.”**
- Arup Chakraborty, Satyendra Deka, Ratnali Bania Assistant professor of PIPS were awarded patent with patent grant number: ‘2022/05968’ titled **“Herbal composition for treatment of oral related disorders and a method for preparation thereof.”**
- Satyendra Deka was awarded patent with patent grant number: ‘2023/0213248A1’ titled **“Portable Insulin and Vaccine Storage Machine.”**
- Daphisha Marbaniang was awarded patent with patent grant number: ‘2023/0213248A1’ titled **“Lipid nanoparticle-based antitubercular drug composition with improved biopharmaceutical properties.”**

TEJASWINI- ASSAM IDEATHON 2024



Two faculty members namely- **Mrs. Madhusmita Kumari** and **Ms. Mayuri Phukan** was selected in top 50 under the scheme **Tejaswini-Assam Ideathon'24** to encourage Women entrepreneurship, organised by **Government of Assam**

Training and Placements

- Total 106 students have successfully completed Industrial Training in various Multi-National Companies like, Sun Pharma Ltd., Mankind, Ajanta Pharma Ltd., Marico, etc. as per requirement by PCI.
- All of our passed out students were either successfully placed in different Pharma Industries (Q.C, Production and Marketing) or were enrolled in higher studies (M.Pharmacy, MBA, etc.).
- All of our D.Pharmacy pass out batch students have undergone Hospital Training in various hospitals as per requirement.
- Many of our Faculties have undergone training in various diverse fields and also attended conferences in organizations like, NIPER, GBP, etc.
- **Two Students of PIPS** got selected as Hospital Pharmacist at **AIIMS Guwahati**.



Social Activity



Cleanliness drive at college campus



Awareness Camp on Rational use of Antibiotic at Tintukura N. C. Village, Narengi, Kamrup



Free medical health camp- Pratiksha Educational Trust in Collaboration with Pratiksha Hospital, at Tintukura N. C. Village, Narengi, Kamrup



An Awareness works regarding sustainable Practices, use of plastic, and promoting a healthy lifestyle at Tintukura N. C. Village, Narengi, Kamrup



Awareness on Organ Donation



An Awareness Program on Nutrition at Titukura N. C. Village, Narengi, Kamrup



Blood donation Camp

Social Activity



Mega Health Camp organized on the occasion of World Pharmacist Day, 2024



Health Awareness Campaign in Chandrapur College on the occasion of World Pharmacist Day, 2024.



Health Awareness Campaign in Mayang Anchalik College on the occasion of World Pharmacist Day, 2024.

INVITED GUEST SPEAKERS



Prof. (Dr.) H. K. Sharma
Department of Pharmaceutical Sciences,
Dibrugarh University
Executive Member of Pharmacy Council of
India.



Dr. Krishna Undela
Assistant Professor
Pharmacy Practice, NIPER,
Guwahati, Assam



Prof. (Dr.) V. Gopal
Professor, Head of the Department of
Pharmacognosy, Principal,, Mother
Theresa Post Graduate and Research
Institute of Health Sciences, Puducherry.



Mrs. Sukirti Das, Professor
NETES Institute of Pharmaceutical
Sciences, Mirza, Assam
Executive Member of Pharmacy Council
of India

INVITED GUEST SPEAKERS



Dr. Partha Pratim Dutta
Associate Professor
Faculty of Pharmaceutical Sciences, AdtU,
Guwahati



Dr. Robert Sonowal
Assistant Professor
Faculty of Biological Sciences &
Bioengineering, IIT Kanpur



Dr. Ujjwal Bhattachariya
Dean, Pratiksha Institute of Allied Health
sciences
Chandrapur Rd., Panikhaiti, Guwahati-26



Dr. Pranjit Pran Baruah
Chief General Manager (MS.)
Oil India Limited, Guwahati, Assam

INVITED GUEST SPEAKERS



Mr. Somnath Chakraborty
Manager, Production
NATCO PHARMA Ltd., Kokjhar, Mirza,
Guwahati, Assam- 781125



Mr. Gunajit Roy
Quality Control Head, Avizen Biopharma pvt. Ltd,
Rampur, Bijoyagar, Assam-781122



Mr. Manash Gogoi
HoD-Production
Hetero Healthcare Ltd, Unit-II Palashbari, Guwahati,
Assam, 781128



Mr. Bidyut Das
Senior Executive, Quality Assurance
NATCO PHARMA Ltd., Kokjhar, Mirza,
Guwahati, 781125



Mr. Bikash Deka
Senior Officer, Consumer Products Ltd.
Brahmaputra Industrial Park, North
Guwahati-781031



Mr. Lakshyajit Kakati
Executive Quality Control
NATCO PHARMA Ltd., Kokjhar, Mirza,
Guwahati- 781125

WORKSHOP, SEMINAR & WEBINAR

Two Day workshop on "Mastering the art of research: From selection to publication"



Webinar on Computer Aided drug Design and Development, Speaker Mr. Kunal Bhattacharya (Asst. Prof.)

A promotional poster for a webinar. The title is "WEBINAR ON COMPUTER-AIDED DRUG DESIGNING & DEMONSTRATIONS". It is organized by the Centre for Computational Drug Discovery at Pratiksha Institute of Pharmaceutical Sciences. The organizing committee includes Dr. Pramod Kumar Sharma (CMD, Pratiksha Group), Prof. (Dr.) Satyendra Deka (Principal, PIPS), Mr. Dibyajyoti Das (Assistant Professor, PIPS), and Mr. Debabrata Nath (Assistant Professor, PIPS). The speaker is Mr. Kunal Bhattacharya. The poster features logos for the Pratiksha Institute of Pharmaceutical Sciences and the Centre for Computational Drug Discovery, along with a photograph of a modern building.

Pharmagyanav, A Two days National Seminar on Recent Advances And Sustainability in Pharmaceutical Research

