

## Participation in Global Bio-India 2024



Assam participated as the State Partner in the 4th edition of Global Bio-India 2024, held on 12-14th September 2024, at Pragati Maidan, New Delhi organized by BIRAC, DBT. The three-day event was the largest representation of Biotechnology stakeholders of the country. The event was graced by more than five hundred exhibitors from different parts of the country, delegates, industries, start-ups, incubators and academia. Mr. PLN Raju, Special Secretary, Science, Technology and Climate Change Department, Government of Assam; Dr. Bula Choudhury, Senior Scientist, GBP and Mr. Kamal Gauli, Scientific Assistant, GBP represented the state at GBI 2024.

In the event GBP highlighted its facilities, startups, products, initiatives of Business Incubation Center for Fisheries and Aquaculture, NIDHI PRAYAS Centre and Assam Biotech Policy to attract venture capitalists, angel investors and corporate investors in Assam.

## Recent Update

Shri Deba Kumar Mishra, ACS, has taken over charge as CEO, GBP on 20th September 2024. Smti Keerthi Jalli, IAS, was accorded a grateful farewell from the staff of GBP. Shri Rakesh Kumar Thakur, ACS, has also taken over charge as Administrator, GBP.





## Participation in 8 years celebration of NIDHI scheme of DST

Department of Science and Technology, Government of India, organized a one day event celebrating the impact of the DST NIDHI Scheme, launched 8 years ago at FITT, IIT Delhi on 6th September 2024. The Chief Guest, Hon'ble Minister of State (IC) Science & Technology and Earth Sciences, shared valuable insights on the role of DST-NIDHI in fostering a vibrant startup ecosystem. Dr. Prajjalendra Barooah, Research Associate, GBP attended this significant gathering that showcased the incredible impact and journey of DST-NIDHI over the past 8 years on behalf of the NIDHI PRAYAS Center, GBP. The event featured launch of the compendiums of the impact of the NIDHI EIR and PRAYAS programs, launch of the new NIDHI website and also launch of eight newly granted iTBIs followed by insightful discussions on innovation and entrepreneurship in India, highlighting success stories and future directions.



## MOU exchange with Assam Don Bosco University

GBP has signed a MoU with the Assam Don Bosco University (ADBU) to foster academic and research collaboration between the institutions and enable skill development and entrepreneurship opportunities for the students. The MoU was exchanged on 24th September 2024, in presence of Fr. (Dr.) Jose Paley, Vice Chancellor, ADBU; Fr. (Dr.) Zacharias George, Registrar, ADBU and other officials from ADBU and GBP. We look forward to a fruitful and long-lasting partnership with ADTU and hope to achieve our shared vision of promoting Life Science research in the region.





## Participation at 4th Anniversary of PMMSY

The Department of Fisheries, Govt of India, recently celebrated the 4th anniversary of the Pradhan Mantri Matsya Sampada Yojana (PMMSY) on 11th September 2024 at Sushma Swaraj Bhawan, Chanakyapuri, New Delhi. The event was graced by Secretary, Dept. of Fisheries, Dr. Abhilakh Likhi; Prof S.P. Singh Baghel and Shri George Kurian, Hon'ble Minister of State, Ministry of Fisheries, Shri Rajiv Ranjan Singh, Hon'ble Minister of Fisheries, and Mr Sagar Mehra, Joint Secretary (Inland fisheries), Dept. of Fisheries and representatives from all the states of the country.

The ongoing visionary project "Business Incubation Center for Fisheries and Aquaculture" of GBP is funded under PMMSY. Dr. Bula Choudhury, Senior Scientist, GBP and PI of BICFA, participated the event.



## Visit by Officials of TERI



Mr. Deepak Kumar, Director, Mycorrhiza Commercial Production, TERI, and Dr. Wilfred Dias, Business Development Officer, TERI visited GBP on 5th September, 2024 to explore synergies between TERI & GBP to promote Bio-research, innovation, and Bio-production across Northeast India. During their visit, the TERI team engaged in insightful discussions with GBP, highlighting TERI's pioneering initiatives in the fertilizer sector. They also toured our state-of-the-art lab facilities and learned about our wide range of scientific service.

## Visit by delegation from Thai Embassy

A delegation from the Ministry of Foreign Affairs of Thailand, led by Ms. Sasirit Tangulrat, Director-General of the Department of South Asian, Middle East and African Affairs, to GBP on 23rd September, 2024. The visit brought together esteemed professors and scholars from various Thai universities and institutes, leading to fruitful discussions on potential areas of cooperation, especially in education and development. We look forward to exploring these opportunities further and strengthening our collaborative efforts





## Workshop on Proteomics at ADBU



Assam Don Bosco University (ADBU), Tepesia Gardens, Sonapur, successfully hosted a workshop on Proteomics: Protein Extraction, Analysis, and Beyond on 24th September 2024. The session featured Dr. Bula Choudhury from Guwahati Biotech Park (GBP) and Dr. Rajiv Chandra Dev Goswami as the resource persons. Dr. Bula Choudhury presented an insightful talk on the entrepreneurship opportunities in fisheries and aquaculture sectors, highlighting GBP's upcoming capacity-building programs. Dr. Rajiv Chandra Dev Goswami led hands-on sessions, covering protein extraction, analysis, purification, and bioinformatics, while emphasizing the vast potential of proteomics research at GBP.

## Faculty Development Program



A Faculty Development Program on Phytochemistry and advanced analytical techniques was successfully organized by GBP and Institutional Biotech Hub (IBH), Gauhati University, from 22nd to 27th July 2024. Participants gained invaluable insights into advanced phytochemical analysis and utilized sophisticated instrumentation at GBP.

## INTERNSHIP

Mr. Mridul Boro from Chandigarh University successfully completed their one month long internship on "Basics of Molecular Biology and Imaging" under the guidance of Dr. Saurav Dey and Dr. Prajjalendra Barooah (June-July 2024). He mastered various techniques in Molecular Biology & Bioinformatics including Nucleic acid sequence analysis, manipulation, Protein structure prediction, Drug discovery and their utility in different fields of Biotech research.







Seven B.Sc Biotechnology students, Mr. Ankit Aditya, Mr. Ankan Khan, Ms. Isha Srivastava, Mr. Chirag Deep Champia, Mr. Soumyadeep Panda, Ms. Anushka Shaw, and Ms. Ritaj Shafquat from Adamas University, Kolkata have successfully completed an enriching 3-week internship at GBP in the month of June-July 2024. The students were guided by the expertise of Dr. Saurav Dey and Dr. Prajjalendra Barooah, these talented students mastered extraction techniques and gained hands-on experience with advanced instruments such as HPLC, HPTLC, and GCMS.



Summer internship program on “Herbal extraction, Microbial techniques and Molecular Biology” for the month of June-July, 2024 under supervision of Dr Bula Choudhury, SS and Dr Rajiv Ch. Dev Goswami, RA was conducted at GBP. The participants from various institutes joined the program and acquired knowledge on the different Herbal extraction techniques, Microbiology and Molecular Biology. The students were Mr. Arijit Kumar, Ms. Prapti Baishya and Mr. Rituraj Roy from Royal Global University, Ms. Changeena Basumatary and Ms Jane Kujur from Assam Don Bosco University, Ms. Ankita Sarma and Ms. Debashree Bhowmik from Assam Down Town University, Mr. Shourish Das from Gauhati University and Mr. Bappy Sen from Bodoland University.



Three M.Sc Biotechnology students Ms. Dhritismita Malakar, Ms. Jymani Talukdar and Ms. Shrabani Das from Gauhati University successfully completed their 2-week internship on “Application of sophisticated analytical instruments” at GBP under the expert supervision of Dr. Saurav Dey and Dr. Prajjalendra Barooah. During this enriching program, students gained hands-on experience and in-depth knowledge of sophisticated techniques and instruments like HPLC, HPTLC and GCMS.





Mr. Pratyush Preetam Malakar and Mr. Chayanka Das; MSc Biotechnology students from Jain University successfully completed their 2-week internship on “Application of Sophisticated Analytical Instruments” at GBP under the expert supervision of Dr. Saurav Dey and Dr. Prajjalendra Barooah in July 2024. During this program the students gained hands-on experience and in-depth knowledge of sophisticated techniques and instruments like HPLC, HPTLC, and GCMS.



Six M.Sc Students from Royal Global University Ms. Hage Tinia, Ms. Jaya Pati Jamatia, Ms. Toi Ete, Ms. Meisithuili Riamei, Ms. Swaswati Borpuzari and Ms. Reema Dey Sarkar completed their one-month internship on “Basics of Molecular Biology and Bioinformatics” in July 2024 under the guidance of Dr. Saurav Dey and Dr. Prajjalendra Barooah. Throughout the program, they learned Molecular techniques like: DNA/RNA Extraction, purification, PCR, Restriction Mapping, Protein Extraction and SDS PAGE etc., Bioinformatics tools: Databases, Sequence Alignment, Primer Designing, Protein Structure Prediction, Homology Modelling, Protein-Ligand Docking, Chemi-informatics, Computer-Aided Drug Discovery, Immuno-informatics (Reverse Vaccinology), Protein-Protein Docking etc.

Miss Lanujunga Pongen and Mr. Makbul Alom from USTM, successfully completed their internship in “Techniques in Plant Tissue Culture and Micropropagation”. Under the guidance of Dr. Bula Choudhury and Dr. Rajiv Ch Dev Goswami, they explored bioprospecting medicinal plants of NER and identified bioactive phyto-components with antimicrobial and medicinal properties during their internship







A 15-day internship program on “Basics of Molecular Biology and Bioinformatics” was completed by Ms. Nigar Sultana and Mr. Jyotishman Das from Cotton University, Ms. Swagata Mazumder from Pragjyotish College, Mr. Chhandapran Garg from Bharath Institute of Higher Education and Research, Ms. Manmi Deka, ADTU at GBP in July 2024 under the guidance of Dr. Saurav Dey and Dr. Prajjalendra Barooah.

The students learned Molecular techniques like PCR, Protein Extraction, SDS PAGE and Bioinformatics tools like sequence Alignment, Primer Designing, Phylogenetic Tree Construction, Protein Structure Prediction, Homology Modelling, Protein-Ligand Docking, Chemi-informatics, Computer-Aided Drug Discovery, Immuno-informatics, Protein-Protein Docking etc.



Our summer internship program on “Phytochemistry, Microbial Techniques, Molecular Biology” was a resounding success. Held in July 2024 under the guidance of Dr. Bula Choudhury and Dr. Rajiv Ch Dev Goswami at GBP, this program saw active participation from B.Sc. Biotechnology third-semester students from Pandu College, Guwahati. The participants were Mr. Rupak Paul, Ms. Vedrish Joshi, Mr. Bibek Sarkar, Ms. Swati Sarma, Ms. Payal Tuijam, Ms. Tapashree Deak, Mr. Sahil Hoque Choudhury, Mr. Sonu Shaw, Ms. Sushmita Devi, Ms. Diya Roy, Ms. Urmi Gosh, Ms. Surabhee Banik, Ms. Aditi Kumari, Ms. Mridusmita Kalita.

Four students Ms. Dhriti Rekha Devi, Ms. Manashri Nath, Ms. Jyotika Dey and Ms. Jakia Nasrin Barbhuiya from Gurucharan University, Silchar have successfully completed a 2-week internship under the expert supervision of Dr. Saurav Dey and Dr. Prajjalendra Barooah at GBP in July -Aug 2024. They gained hands-on experience and in-depth knowledge of sophisticated techniques and instruments like HPLC, HPTLC, GCMS, PCR and more during the internship.





## Exposure Visits

### Department of Chemistry, Assam Royal Global University



Thirty eight M.Sc students from the Department of Chemistry, Assam Royal Global University, visited GBP on 29th August 2024. The team was delighted to observe the GBP instrumentation facilities including different sophisticated chromatography techniques, packaging unit, green house, cold room etc. The students were also briefed about our ongoing entrepreneurial activities on different biotechnology domains and the diverse scopes & opportunities.

### School of Life Sciences, Assam Don Bosco University



A group of students from School of Life Science, Assam Don Bosco University, Tepesia campus, Sonapur, visited TIC, GBP facilities on 25th September, 2024. The team was provided with a tour of GBP laboratory facilities, including modular laboratories Green House, packaging facilities, Cold room etc. Students enthusiastically interacted with the scientific team and observed the scientific activities with exceptional quest to learn about new avenues of Biotechnological Research.

### Student exposure visit to GBP under CM's AAROHAN Scheme

The students selected from various districts for the year 2024 under the Chief Ministers AAROHAN program which is an ambitious program to improve the quality of Secondary Education and to aid identification of talented students from the remote, rural and poor families for the mentoring and monitoring of their academic career a number of students from different districts visited GBP in this period.



Darrang and Tinsukia	31st July 2024	260 students
Sibasagar and Udalguri	7th August 2024	260 students
Chirang, Nalbari and Golaghat	21st August 2024	387 students
Kokrajhar and Barpeta	4th September 2024	233 students
Karbi Anglong and Kamrup	11th September 2024	383 students
Lakhimpur and Biswanath	19th September 2024	410 students
Cachar, Kamrup-M, West Karbi Anglong, and Charaideo	25th September 2024	410 students
Bongaigaon and Hojai	3rd October 2024	124 students



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