



Monthly Newsletter of Guwahati Biotech Park

*today*

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## Official Visit to Biotech Park, Lucknow, CSIR-CDRI and CIMAP

A delegation of Guwahati Biotech Park officials led by Shri Vinod Seshan, IAS, Chief Executive Officer, Guwahati Biotech Park and team members comprising of Dr Madan Gopal Barthakur, Senior Scientist; Dr Bula Choudhury, Senior Scientist; Ms. Monsumi Gogoi, Administrative Officer and Mr Hemen Das, Marketing Officer of GBP visited Biotech Park, Lucknow (LBP) on 7<sup>th</sup> and 8<sup>th</sup> June 2018.

The purpose of the visit was to meet the authorities and incubatees of Biotech Park, Lucknow to understand and evaluate the scientific, management, financial and infrastructure modalities, and government as well as Private Party share at the park.



*GBP delegation with Dr.P.K. Seth, Ex-CEO, LBP and NASI distinguished Scientist, Dr. V.P. Kamboj, Chairman Advisory committee, LBP, Prof. Rishi Sankar, Guest Faculty, LBP during their visit at LBP*



*GBP delegation with Mr.O.P. Soni, Senior GM, production, Life care innovations, a company at LBP*

GBP team also visited CSIR-Central Drug Research Institute (CDRI) and CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP), at Lucknow, to explore possibilities of future collaborations in the fields of pharmaceutical, medicinal and aromatic plants research leading to commercialization.



*GBP staff with Dr. S.K. Rath, Scientist, CDRI and other officials during their visit to CDRI, Lucknow*



*GBP staff with Dr. Dinesh Kumar, Scientist, CIMAP during their visit to CIMAP, Lucknow*

## Technical Review Committee meeting and preliminary discussion on proposals under Assam Biotechnology Policy

Evaluation of the ongoing R&D proposals at the leased out spaces at GBPIC, upcoming proposals as well as a preliminary discussion on the proposals received under Assam Biotechnology Policy 2018-2022 was held on 27<sup>th</sup> June at the conference hall, GBP. Shri Vinod Seshan, IAS, chaired both meetings in presence of other members, Dr. P. G. Rao, CSIR distinguished Scientist; Dr. Ajay Kunnumakkara, Associate Professor, BSBE, IITG as nominee of HoD, BSBE, IITG; Dr. Madhumita Barooah, Professor, Assam Agriculture University as nominee of HoD, Deptt. of Biotechnology, AAU; Dr. Madan G. Barthakur, Senior Scientist, GBP and Dr. Bula Choudhury, Senior Scientist, GBP as member secretary. Other invitees present in the meeting were: Mr. Baljeet Singh, Market Analyst, ARIAS Society; Mr. Srimant Phukan, M&E Specialist, ARIAS Society; Dr. Saurav Dey, TO, GBP; Shri Prajjalendra Barooah, RA, GBP and Dr. Rajiv Ch. Dev Goswami, RA, GBP.



*Incubatees presenting their work progress during the 3rd Technical Review Committee meeting at GBP conference hall*



## MoA signing between NRDC and Gauhati University through NE cell of NRDC

A Memorandum of Agreement was signed between National Research Development Corporation (NRDC), an enterprise of Department of Scientific & Industrial Research, Ministry of S&T, Govt. of India and Gauhati University under the initiative of North East NRDC Cell established at GBP, on 1st June, 2018. Dr. H. Purushotham, Chief Managing Director, NRDC and Dr. Suresh Kumar Nath, Registrar, GU signed the MoA in the presence of Prof. Prodeep Phukan, Coordinator IPR Cell, GU; Dr. U. Khanikar, Joint Registrar, GU; Mr. Amit Ranjan & Dr. Bula Choudhury, Coordinating Officers, North East NRDC Cell and Dr. Madan Gopal Barthakur, Senior Scientist, GBP.



*Dr. H. Purushotham, CMD, NRDC and Dr. S.K. Nath, Registrar, Prof. P. Phukan, Coordinator IPR Cell, GU; Dr. U. Khanikar, Joint Registrar, GU and Mr. Amit Ranjan, NRDC with Dr. B. Choudhury, SS, GBP and Dr. M.G. Barthakur, SS, GBP during the signing of the MoA*

## Internship

### Theme: Bio-molecule Profiling

The 10th & 11th batch of internship on 'Biomolecule Profiling', which is the 2nd & 3rd batch of summer 2018 season on Biomolecule Profiling, was started on 1st and 15th of June, 2018. The interns of this group were Nabajyoti Nath of Amity Institute of Biotechnology, Amity University Rajasthan; Heera Basnet, Mannan Chhetri, Sabista Ahmed, Pallavi Purkait, Shweta Kumari of Amity Institute of Biotechnology, Amity University Kolkata; Rokono Nagi, Mausumi Das, Dimpay Bodo, Nitumoni Pathak of SRM Institute of Science and Technology, Tamil Nadu; Neha Ghosh of Assam Don Bosco University, Sonapur; Rashmi Rani Boro, Hiranya Chaudhary of Shoolini University, Himachal Pradesh; Amon Sarkar of Lovely Professional University, Punjab.



*Dr. M.G. Barthakur, SS, Dr. R. Ch Dev Goswami, RA, Mr. P. Barooah, RA, Mr. J. Rajbongshi, LA and Mr. K. Gauli, LA along with students of the 10<sup>th</sup> batch of internship programme on Biomolecule profiling*

The program is under the primary supervision of Dr. Madan Gopal Barthakur, Senior Scientist, GBP. Some aspects of the program also have associate-supervision of Dr. Rajiv Ch. Dev

Goswami, RA, Mr. Prajjalendra Barooah, RA and assistance from Mr. Kamal Gauli and Mr. Jintu Rajbongshi, Lab Attendants, GBP.

The internship involves extraction of a few plant species of Assam, profiling of molecules present in the extracts and anti-microbial activity screening of few extracts. The plant species chosen are either having traditional medicinal use or expected to contain potential medicinal compounds. This internship course comprises of laboratory techniques and R&D skills on solvent extraction (Soxhlet, Sonication etc), chromatographic separation, use of high-end analytical instruments like Gas Chromatography Mass Spectrometry (GC-MS) etc for molecule profiling and an overall training on good laboratory practices.



*Dr. M.G. Barthakur, SS, Mr. J. Rajbongshi, LA and Mr. K. Gauli, LA along with students of the 11<sup>th</sup> batch of internship programme on Biomolecule profiling*

### **Theme: Basic Techniques on Molecular Biology, Microbiology and Imaging**

8<sup>th</sup>, 9<sup>th</sup> & 10<sup>th</sup> batches of Internship on Basic Techniques on Molecular Biology, Microbiology and Imaging was conducted from 1st June -15 June 2018, 18th June -2nd July 2018 and 1st June -2nd July 2018 respectively. The intern students in the 8<sup>th</sup> batch were Valentina Tamuli, Nitisha Baruah of St. Anthony College, Shillong; Firoza Choudhury of Amity University Kolkata; Dorothy Das of St. Joseph College, Bangalore; Dhrub Jyoti Sharma, Rajat Talukdar of SRM Institute of Science & Technology; Prisweta Bhattacharjee, Ankita Das, Riya Chakraborty, Mohana Bhattacharjee of Assam University, Silchar. Students in the 9<sup>th</sup> batch were Rithika Sarmah of Sikkim Manipal University, Sofiqua Yesmin of SRM Institute of Science & Technology; Tridip Kumar Deka and Soham Mukherjee, Shoolini University, Himachal Pradesh. 10<sup>th</sup> batch of internship comprised of Medha Chakraborty, Souham Sengupta, Sneha Bose, Chandrima Das of Amity University, Kolkata, Moumita Nath, Ch. Sujata Sharma, Bishal Dey, Mrinmoy Choudhury of Dept. of Life Sciences, Assam University and Aneesha Borah of Chandigarh University.



*Internship students with Dr. Ranadip Gogoi, Assistant Proff., NIPER, Dr. B. Choudhury, SS, Dr. R. Ch. Dev Goswami, RA, Mr. P. Barooah, RA, Mr. J Rajbongshi, LA and Mr. K. Gauli, LA at GBP*

The students underwent the internship program under the supervision of Mr Prajjalendra



Barooah, RA; Dr Rajiv Ch Dev Goswami, RA and Dr Bula Choudhury, Senior Scientist, GBP. The students in this program were given a basic introduction to techniques in Microbiology such as serial dilution, culture isolation, plating, antibiotic assays; Molecular biology such as DNA isolation, PCR, RFLP, Protein isolation, SDS PAGE, FPLC etc and Imaging in Confocal and Fluorescence microscopes.

Dr Ranadeep Gogoi, Associate Professor, NIPER Guwahati delivered a talk on protein interactions and analysis to the intern students on 12th June 2018

## Visit to Bio-material and Tissue Engineering Lab

Intern students visited Biomaterial and Tissue Engineering Lab headed by Dr Biman B. Mandal of Dept. of BSBE, IITG on 25th June 2018. The major focus of this lab is towards Biomaterials, Tissue Engineering, Human Stem Cells, Drug Delivery Devices, 3D Disease Tissue Models etc. leading towards development of lab grown tissue/organ replacements for human transplantation.



*Internship students during their visit to Biomaterial and Tissue Engineering Lab IITG*

## Theme: Application of Sophisticated Analytical Instruments

A batch of interns in the area of “Application of Analytical Instrument for Identification and Quantification of compounds in Plant Extracts” at GBP have done their internship project work during May-June, 2018 under the supervision of Dr. Saurav Dey, Technical Officer, GBP.

The interns of this group are Mr. Mrinmoy Choudhury, Miss Moumita Nath, Miss Ch Sujata Sharma, M.Sc 2nd year student at Department of Life Science under Assam University, Silchar and Miss Anika Gupta, B.Tech 2nd yr student (Biotechnology) under IILM college of Engineering, Greater Noida.



*Dr. S. Dey, TO, GBP along with students of the internship programme on Application of Sophisticated Analytical Instruments*

## Association of GBP with BCIL under BITP (2017-18)

Biotech Consortium India Limited (BCIL) under Biotech Industrial Training Programme (2017-18) selected two students as trainees at GBP for an period of for 6 months. The students received monthly stipends of Rs. 10,000/- month and GBP also received Rs. 50,000/- per student as bench fees. The students completed two projects during their stay at GBP

a. Ms. Vesapolu Hesuh, B. Tech. Nagaland University: "Screening, identification and selection of a few potent Microbial strains having probiotic activity"

b. Ms. Rijumani Kalita, MSc, Gauhati University: "Studies on probiotic activity of few selected microbial strain from NE India isolated from Traditional fermented foods"

The projects were supervised by Dr. Bula Choudhury, Senior Scientist, GBP; Dr. Rajiv Ch. Dev. Goswami, RA, GBP and Mr. Prajjalendra Kr. Barooah, RA, GBP.



*BCIL trainees with Dr. B. Choudhury, SS, GBP; Dr. R. Ch. Dev. Goswami, RA, GBP and Mr. P. Barooah, RA, GBP.*

## Hands on training on GCMS

Mr. Aheibam Loyanganba Meitei, JRF, National Mission on Himalayan Studies, ICAR-National Research Centre for Orchids, Sikkim underwent 5 days hands on training on Gas Chromatography Mass Spectrometry at CAIF, GBP during 5th -11th June, 2018. Program was supervised by Dr. Madan Gopal Barthakur, SS, Dr. Rajiv Ch. Dev Goswami, RA & Prajjalendra Barooah, RA



*Mr. A. L. Meitei, JRF, ICAR-NRCO with Dr. MG Barthakur, SS, GBP, Dr. R.Ch. Dev Goswami, RA GBP, Mr. P. Barooah, RA, GBP, Mr. K. Gauli, LA, GBP and Mr. J. Rajbongshi at GBP.*



## VISITS

### Visit of Mr Balram Nair, Chennai Angels

Mr Balram Nair, Vice President, Chennai Angels visited the facilities of GBP on 28th June 2018 and interacted with the incubatees as well as the with the intern students at GBP



*Mr. Balram Nair, VC, Chennai Angels with GBP staff and intern students during his visit at GBP*

### Visit of Dr. Md. Ghaznavi Idris, Dept of Bioeng & Tech, GUIST

Dr. Md. Ghaznavi Idris, Asst. Prof., Dept of Bioeng and Tech, GUIST visited GBP on 26<sup>th</sup> June 2018. Dr. Idris and Dr. Madan Gopal Barthakur, Senior Scientist, GBP jointly guided the final Semester projects of B.Tech, Biotechnology students. During his visit Dr. Idris also interacted with other intern students at GBP.



*Dr. M.G. Idris, Asst. Prof, Dept of Bioeng and Tech, GUIST with Dr. M.G. Barthakur, SS, GBP, other staff and students at GBP*

## Participation in Guwahati Start-Up Summit-2018

Dr. Madan Gopal Barthakur, SS; Dr. Bula Choudhury, SS; Dr. Saurav Dey, TO; Dr. Rajiv Ch. Dev Goswami, RA; Mr. Kamal Gauli, LA; Mr. Jintu Rajbongshi, LA; participated in the Guwahati Start-Up Summit-2018 on 30th June which was organized by IITG-TIC. The summit was aimed at boosting up the start-up scenario in the state and region. In the meet Mr M. Nihalani, CGM (R&D & FHQA) R&D Department, Oil India Limited; among others, deliberated on the initiatives of OIL towards Start-up entrepreneurs.



*Dr. Konjengbam D. Singh, Faculty In-Charge TIC, IIT Guwahati, Dr. M.G. Barthakur, SS, Dr. R.Ch. Dev Goswami, RA, Mr. J. Rajbongshi, LA and Mr. K. Gauli, LA at the venue of Guwahati Start-Up Summit-2018*

## Participation in North East Zonal Symposium

Dr. Saurav Dey, Technical Officer, GBP participated in the North East Zonal symposium on Pharmacogenomics and personalised Medicine organized by Department of Pharmacology, Guwahati Medical college on 16<sup>th</sup> June 2018.

## Exposure Visit

Third semester students of Dept. of Botany, Tihu College visited GBP on 25<sup>th</sup> June 2018. During the visit the students got an opportunity to interact with the scientific team of GBP along with the incubatees present at GBP. They also were given a brief idea about the various instrumentation and laboratory facilities available at GBP.



*Students and faculty members of Department of Botany, Tihu College during their visit to GBP*

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