

बालोकरान

Annual Newsletter

Volume 2, 2019-2020



**Welcome to
The Department of
Biosciences and Bioengineering**



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Team Awalokan:

Pratap Chandra
P. Gavande, Gaurav Bhatt,
Manisha Shah, Sunanda Chhetry,
S. Sanjana, Manasari Muralidharan
Dr. Shirisha Nagotu (Faculty Advisor)
Prof. Latha Rangan, HOD BSBE (Patron)

From HOD's Desk

I would like to give my sincere greetings to fellow faculty members, staff, students, and alumni of the Department of Biosciences and Bioengineering (BSBE). On behalf of the Department, I am pleased to present Volume 2 of our Department Annual Newsletter, which is a bit overdue. One year has zoomed by and has been a transformative experience for all of us. During the Institute's Silver Jubilee Celebration (1994-2019), we pledged to be more committed towards the overall ethos of teaching and learning at the backdrop of the BSBE Department's vision and mission. Fostering frontier areas of research and ideas relevant to the present time, including 'standing tall' to the global crisis of the COVID-19 pandemic has been the true hallmark and testament of this period. This is evident from the fact that faculty from the Department have immensely contributed towards research ideas, innovation, delivery of products, technology, and offered their relentless services not only to the region or state but to the entire nation, meeting the need of the hour. This will remain the most gratifying experience now and in the future when we rewind.



Prof. Latha Rangan

On the completion of the 25th year of the Institute and 17 years of Department footprint, we have come up with new initiatives that include the Annual Newsletter and also Annual Department Retreat in addition to excellent performance in academics, research, and industry collaboration. On the eve of National Science Day Celebration, Shri Ramesh Pokhriyal 'Nishank' Ji, Honorable MHRD Minister, Govt. of India, dedicated technologies developed by our Department faculty to the Nation. Thoughtful steps towards the conservation of natural resources in and around this campus were taken as a joint activity and consolidated in the form of a book. The Department had a complete facelift when the new website was launched along with a digital display screen, indicative of our openness to embrace the digital era for good.

I congratulate my colleagues, staffs, and students for a wonderful interaction during the academic year 2019-2020 and wish everyone best and pray that all stay safe and healthy as we take another leap forward as a family.

Outreach to NE India

Joint Thesis

Internships PhD/Masters

Handholding

NECBH TWINNING

18+ Joint Projects

NECBH Twinning Projects

Database Resource Centre

SeriPort Database

NE Zingiberaceae Resource Centre

Source: L. Rangan, 2020



<http://www.iitg.ac.in/biotech/>

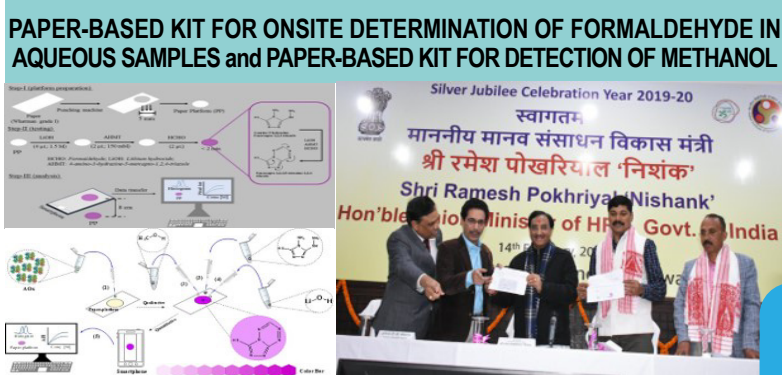


biooff@iitg.ac.in



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Tangible Output



Prof. Pranab Goswami



Prof. Biman Mandal

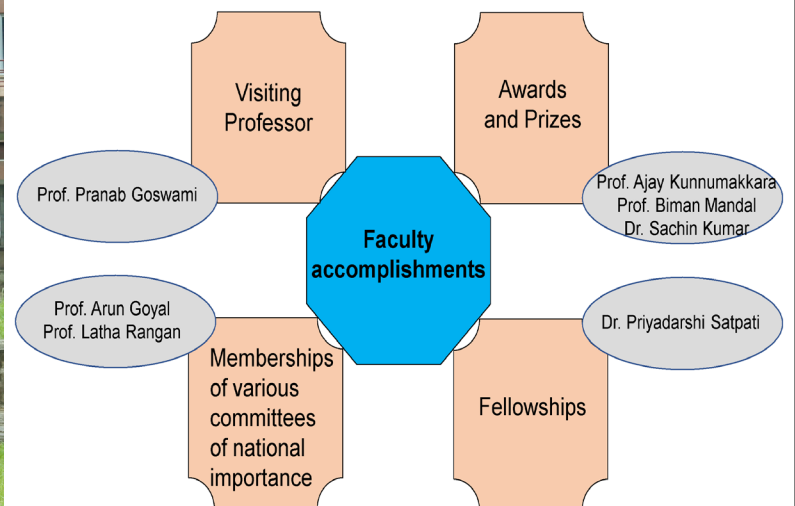
Technology/
Product/
Process
Commercialization



Prof. Vibin Ramakrishnan



Dr. Pranjal Chandra



Students BSBE



B. Tech



M. Tech

Congratulations and best wishes to our 2020 passing out students



PhD Students

PMRF Fellow



Mr. Pratik Nag

Prime Minister Research Fellowship (PMRF) encourages indigenous researches in frontier areas of Science and Technology which are of national interest. It provides the platform for scholars to conduct highly motivated research. Also the research grant gives the scholar an opportunity to grow as an independent researcher. Mr. Pratik Nag got selected for this prestigious fellowship in the year of 2018. PMRF enables him to carry out his Ph.D. work under the supervision of Dr. Souptick Chanda in the Biomechanics research

Lab., IIT Guwahati. The group aims to bring patient specific solutions to the orthopaedic problems of the North-Eastern region. As part of Mr. Pratik Nag's Ph.D. work, he is trying to explore design rationale of extramedullary devices for femoral fracture fixations. Recently, a novel clinically advanced implant (MIDO-DHS) is being developed by him in collaboration with NEIGRIHMS, Shillong. MIDO- DHS promises to solve the existing disadvantages associated to conventional implants in view of the geometric and morphometric variations of North-Eastern population.

Congratulations

Manasasri Muralidharan
Kedar Sharma
Abhjit Thakur
Vineet Anand
Nayan Moni Deori
Gaurav Bhatt
Babita Th. Devi
Elina Khatoon
Sosmitha Girisa
Varsha Rana
Srinipa Bhattacharyya
Tanushree Paul

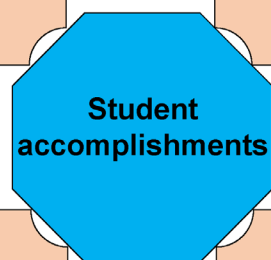


Poster awards



Fellowship/
Travel grant

Janani Guru
Phurpa Dema Thungon
Kedar Sharma
Monika Chandravanshi
Prerak Gupta
Shreya Mehrotra
Ayushi Rehman
Khyati Raina
Parama Dey



**Student
accomplishments**



Oral
Presentation
awards

Harsha Choudhary
Moumita Nandi
Tanushree Paul



Recognition/
Competiton
Awards

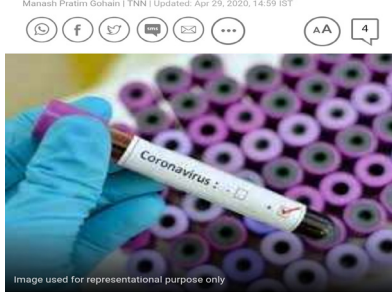
Ashutosh Bandyopadhyay
Shreya Meharotra
Sanjay Manoharan
Adeline Vio War



News & Events

TOI COVID-19 OPEN APP

IIT Guwahati-Hester Biosciences join hands for development of coronavirus vaccine



New Delhi: Indian Institute of Technology Guwahati is collaborating with Hester Biosciences Limited, Ahmedabad, to work on the vaccine development against COVID-19. The vaccine is expected to be ready by the end of this year to start animal studies. The work is currently in its early stage of development.

NDTV FOLLOW

COVID-19: IIT Guwahati Develops Affordable Transportation, Testing Kits

The VTM, RT-PCR and RNA isolation kits have been developed jointly by the Indian Institute of Technology (IIT) Guwahati and RR Animal Healthcare Limited, under the guidance of Guwahati Medical College Hospital, or GMCH.

BY RISHAL KALITA
JUNE 17, 2020 AT 5:52 PM • 2 MIN READ



COVID-19 Testing: IIT Guwahati Develops Affordable Kits For Transportation And Testing

IIT Guwahati Develops Cheap Antiviral Coating For COVID-19 Kits

In a press release, IIT Guwahati said that the concepts were developed by Dr Biman B Mandal, Professor, Department of Biosciences and Bioengineering, IIT Guwahati, along with his PhD. scholars

Guwahati ANI

Updated : April 13, 2020 11:20 pm IST



IIT Guwahati has developed a ear guard for comfortable use of mask.

IIT Guwahati researchers develop affordable antiviral spray-based coating for PPE

They have also developed 3D printed ear guard for the comfortable use of face masks by healthcare workers, said IIT Guwahati in a statement.

Updated: Apr 14, 2020 10:14 IST
By Asian News International, Guwahati

f t w



IIT-Guwahati

In an attempt to safeguard healthcare workers and citizens from coronavirus, a team of researchers at Indian Institute of Technology (IIT), Guwahati have developed an affordable antimicrobial spray-based coating for PPE kits to kill and prevent the spread of microbes once they come in contact with the coated PPE surface.

Biotech Express - 1st Departmental Retreat, December 21, 2019

1st Departmental Retreat (Biotech Express)
Department of Biosciences and Bioengineering
Indian Institute of Technology Guwahati

21st DECEMBER 2019
MUNI AUDITORIUM, IIT GUWAHATI

Games Prizes

Agenda:
• Welcome Address
• Presentation
• Group photo
• Entertainment
• Quiz, Gifs, Songs, Poem
• Snacks

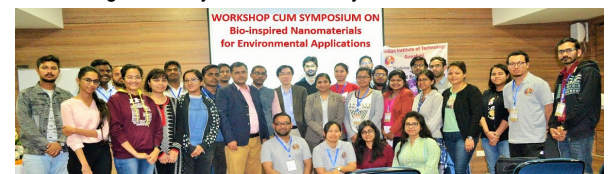
Contact: iitretreat@iitg.ac.in, Phone: 0361-2582250
http://www.iitg.ac.in/retreat

Other Events Organized

Fourth International Conference on Nutraceuticals and Chronic Diseases, September 23-25, 2019;
Organized by Prof. Ajay B Kunnumakkara



Bio-Inspired Nanomaterials for Environmental Applications, February 12-13, 2020;
Organized by Dr. LM Pandey & Prof. AK Golder



Workshop on Diagnostic Approaches in Virology, March 4-6, 2020; Organized by Dr. Sachin Kumar



DBT Program Support Center at IITG mentors a Biopesticide Venture Company in Assam

An awareness journey towards Organic Cultivation at "Char Chapori"

Green Harvest (India) Bio-Tech Pvt. Ltd.
(An ISO : 9001:2008 Certified Company)

Trichoderma and Metarhizum based biopesticide and Boron booster products used by more than 72 big Tea Gardens and Commercial vegetable growers in Assam.

Prof. L. Sahoo

Promoting Organic farming and Sustainable livelihood mission of United Nations

FLORA of IIT Guwahati

Congratulations IIT Guwahati for taking this thoughtful step towards conservation of natural resources in and around its campus

Alok Senapati | Nihal Gujre
Sudip Mitra | Latha Rangan

Tweet: @OfficeOfSDhotre



<http://www.iitg.ac.in/biotech/>



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