



News Bulletin of Institutional Biotech Hub, Bahona College, Jorhat, Assam, India

Department of Biotechnology
Government of IndiaEmail ID: biotech.hub@bahonacollege.edu.inFacebook ID: <https://www.facebook.com/profile.php?id=100070678389136>

Institutional Biotech Hub (IBT Hub) is an initiative of Department of Biotechnology (DBT), Govt. of India with a view to promote research and for development of skilled and trained manpower. The IBT Hub at Bahona College was established in the year 2013. Since then Biotech Hub has been conducting training programs, workshops, seminars and outreach programs through offline and online mode in basic areas of Biotechnology and thus contributing to the growth of trained manpower and biotechnology in the region.

From Principal's Desk**From Coordinator's Desk**

Dr. Prasanna Kr. Dutta
Principal
Bahona College

Dr. Sangeeta Das
Coordinator
Inst. Biotech Hub, Bahona College

Institutional Biotech Hub, Bahona College is publishing its first volume of the news bulletin 'Bio-Buzz'. I hope the Biotech Hub will continue its work in popularizing science & technology among the various stakeholders of the institute and also among other institutes in coming days. I wish all the success in its future endeavors of the Institutional Biotech Hub, Bahona College.

Since its inception, the Hub is working to popularize science & technology among its various stakeholders. This 1st volume of the bulletin is an initiative of the Hub following the need of a bulletin to showcase its various activities. I thank our Principal Sir for his advice and support in fulfilling so. In coming days, I hope the Hub will serve better towards quality research work & development.

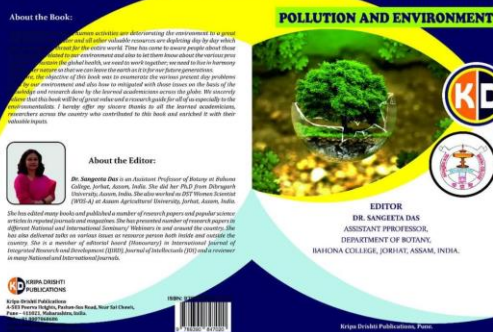
PUBLICATIONS

Evaluation of phytochemical contents and antibacterial potential of *Nyctanthes arbor-arista* and *Cinnamomum tamala* leaves against *Enteric Coliform Bacteria* isolated from street food in Jorhat District of Assam.

Jyotsna Saikia¹, Sangeeta Das² and Kongkana Goswami³
¹Department of Microbiology, School of Health Science, Assam Karianga University, Jorhat, Assam, India.
²Department of Botany, Bahona College, Jorhat, Assam, India.
³Kongkana Goswami, School of Health Science, Assam Karianga University, Jorhat, Assam, India.
Corresponding Author Email ID: jyotsnasai@karianga.ac.in

Abstract: Plants are source of bioactive molecules showing diverse medicinal values. Alkaloids, tannins, terpenoids, flavonoids, etc. are certain phytochemicals found in plants. These phytochemicals show antimicrobial effect on various groups of microbes. In this present study, dried leaves from *Nyctanthes arbor-arista* and *Cinnamomum tamala* plants were used. These two plants are very common plants of Assam and locally known as 'sawal' and 'tee plant' respectively in Assam. *N. arbor-arista*, is an ornamental plant which is also believed to have medicinal values. *C. tamala* leaves are widely used as a spice and is also used in to prevent and cure common diseases like cough and cold. The antibacterial potential of *N. arbor-arista* and *C. tamala* was evaluated on an enteric coliform bacteria isolated from 'panipuri' water collected from a street food vendor of Jorhat District of Assam. Extracts of dried leaves prepared in prepared in ethanol, distilled water and chloroform. These extracts were used to detect phytochemical content of the leaves of *N. arbor-arista* and *C. tamala* and their antibacterial properties on the isolated bacteria. The work is still under progress.

Key Words: Antibacterial properties, Coliform bacteria, Phytochemicals, Plants.



OUTREACH ACTIVITIES

Sl. No.	Name of the Programs	Duration	No. of Participants	Level of participants
1	Outreach Program on Creating awareness on Post COVID-19 effects at Gorumora High School, Jorhat.	1 day, July 31, 2021	46	Teachers, School students
2	Outreach program on Creating awareness on COVID-19 Vaccination at Charigaon Girls' High School, Jorhat.	1 day, July 04, 2021	56	Teachers, School students
3	MoU Signing Ceremony with Kaziranga University, Jorhat, Assam	1 day, September, 27, 2021	15	Teachers

WORKSHOPS CONDUCTED

Sl. No.	Title of the Programs	Duration	No. of Participants	Level of participants
1	National Level Online Art Competition & Webinar to celebrate Women & Girls in Science and Technology	1 day, Feb., 11, 2022	32	School Students
2	Workshop on Basics of Microbiology	3 days, 3 rd , 4 th & 7 th Feb., 2022	30	B.Sc. Students
3	Celebration of World Wetlands Day	1 day, Feb., 02 2022	47	Teachers, Students, Others
4	Role of Youth in the COVID Pandemic Time	1 day, Jan., 12, 2022	37	Teachers, B.Sc. Students, Others
5	International Webinar on Pollution and Environment	1 day, Dec., 02, 2021	36	Teachers, Students
6	Workshop on Project Report Writing	1 day, August 15, 2021	30	Teachers, B.Sc. Students
7	Hands on Training Program on Preparation and Presenting before Audience	1 day, July 01, 2021	17	B.Sc. Students
8	National Webinar on "Environment"	1 day, June 05, 2021	1007	Teachers, Research Scholars, Students

PROGRAMS CONDUCTED

OUTREACH PROGRAM
Creating Awareness on COVID-19 Vaccination
 Institutial Biotech-Hub, Bahana College, Jorhat

 NAUGURATOR DR. P.K.DUTTA Principal Bahana College	 WELCOME ADDRESS MRS. NAVANITA S SAHA Headmistress Children's Girls HS	 SPEAKER MISS RUINI KALITA Student Bahana College	 ORGANIZING SECRETARY DR. SANGEETA DAS Coordinator, Biotech-Hub Bahana College	 TECH. COORDINATOR DR. RAFAIL A. LASKAR Asst. Prof., Dept. of Botany Bahana College
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Date: 04.07.2021 (Sunday)
Time: 10.30-11.30AM

Google Meet Link: <https://meet.google.com/whn-pxst-qwz>

Whatsapp Group Link For Free Registration: https://t.me/whatsapp_group_for_free_registration

OUTREACH PROGRAM
ON
Creating awareness on Post COVID-19 Effects
Organized By
Institutional Health club, Babasaheb College, Jankar, Awasim

SPEAKERS


  

Pratik Puro Purnima Bhabha Lakshmi Lakshar
STUDENT, BABASAHEB COLLEGE

INAGATOR WELCOME ADDRESS ORGANIZING SECRETARY TECH. COORDINATOR
Dr. P.K. Das Dr. Sangeeta Das Dr. Rajal & Lakshar
PRINCIPAL ASSISTANT PRINCIPAL
BABASAHEB COLLEGE GURUMURARI BABASAHEB COLLEGE

Date: 31.07.2021 (Saturday)
Time: 4.00-5.15 PM

 Google Meet Joining Link:
<https://meet.google.com/ymw-ncwz-lpk>

 Whatsapp Joining Link for Free Registration:
<https://chat.whatsapp.com/6070168040163000230>

The screenshot displays a Zoom meeting interface. At the top left, a large video window shows a man with a mustache, wearing a light blue shirt, speaking. To his right, a grid of smaller video thumbnails shows other participants, including a woman with long dark hair and a man with a beard. The top right corner of the screen shows a grid of smaller video thumbnails, including a man with a beard and a woman with long dark hair. The bottom left corner shows a grid of smaller video thumbnails, including a man with a beard and a woman with long dark hair. The bottom right corner shows a grid of smaller video thumbnails, including a man with a beard and a woman with long dark hair. The meeting title 'OUTREACH PROGRAM ON POST COVID-19' is visible at the bottom of the screen.



INTERNATIONAL WEBINAR

ON

POLLUTION and ENVIRONMENT

Organized by
**Institutional Biotech-Hub, Bahona College,
 Jorhat, Assam, India.**

In Association with:



KDD KRIPIA DRISHTI PUBLICATIONS

Date: 02 December 2021
 Time: 10:00 A.M. to 11:30 A.M.

Registration Fee:
 For Indian Rs 150/- and For Foreigners \$5
CALL FOR BOOK CHAPTER WITH ISBN Submit at bookchapter@kripa.in

Hard copy of Book and Certificate will be provided.
Deadline – 10th Dec 2021
 Cost: For India 1500/- and For Foreigners \$15

More Details Contact:
 Dr. Prasanna Kumar Dutta
 Bahona College, Jorhat, Assam, India.
 Email: prasadkumar1980@gmail.com

Dr. Sangeta Das
 Coordinator, Institutional Biotech-Hub,
 Bahona College, Jorhat, Assam, India.

Resource Person:
Prof. Akhazuzman Majumder
 Dean, Faculty of Science Professor and Chairman
 Dept. of Environmental Science,
 Stamford University, Bangladesh



আন্তঃৰাষ্ট্ৰীয় বেনিাৰ সম্পন্ন

যোৰহাট : ৩ ডিচম্বৰ : বাহ্মা মহাবিদ্যালয়ত শ্ৰুৎ অৰু পঠিৰে শীৰ্ষক এখন আন্তঃৰাষ্ট্ৰীয় বেনিাৰ জৈ প্ৰাৰ্থজিবিা। কেন্দ্ৰ, বাহ্মা মহাবিদ্যালয় অৰু কৃপা দীৰ্ প্ৰকাশন, পুন্ম মহাবিদ্যালয় প্ৰচাৰিত ২ ডিচম্বৰত অনুষ্ঠিত হৈ বাহ্ম। বেনিাৰখন উদ্বোধন কৰে মহাবিদ্যালয়ৰ অধ্যাপক ডঃ সন্ম কুমাৰ বৰুৱা। বাহ্মাৰী বাহ্মা অংগকৰী জৈ প্ৰাৰ্থজিবিাৰ ক্ষেত্ৰত সমৰ্থকতা দি সংগীতা দাসে। সমন ব্যক্তি হিচাপে উপস্থিত ব্যক্তি পঠিৰে প্ৰদৰ্শন বিভিন্ন শিক্ষক সম্পৰ্কিত বক্তব্য আগবঢ়াৰ ব্যালাংশেৰে স্টেম্বৰত বিশ্ববিদ্যালয়ৰ ডঃ কম্বজ্ঞান মজুমদাৰে। বেনিাৰখনৰ প্ৰাৰ্থ বাহ্ম কৃপা দীৰ্ প্ৰকাশনৰ পৰা আভ্যম। বেনিাৰখনত ভাৰত অৰু ব্যালাংশেৰে বিভিন্ন শিক্ষকসকলৰ পৰা বহু লোকে অংশগ্ৰহণ কৰে। শলাগন শৰাই আগবঢ়ায় কৃপা দীৰ্ প্ৰকাশনৰ পৰা বৰ্জী আভ্যম।

NATIONAL WEBINAR
On
"ENVIRONMENT: Towards a Greener World"
TOPIC
BIOHAZARD: Environment, Health and Safety
By
MANABENDRA KALITA
Assistant Professor,
Dept. of Biotechnology
&
Co-ordinator, Environment & Climate Cell
Dakshin Kamrup College, Mirza
Organized by
Institutional Biotech-Hub
In Association With
IQAC, Banonga College, Jorhat, Assam


CERTIFICATE OF PARTICIPATION
This is to certify that
Preetee Boruah
ZOOLOGY DEPARTMENT, BAHONA COLLEGE
Participated in the Workshop on Basics of Microbiology
Organized by
INSTITUTIONAL BIOTECH-HUB, BAHONA COLLEGE, JORHAT, ASSAM
During 3rd , 4th & 7th February, 2022


(Dr. Pritamika M D Dutta)
CO-ORDINATOR /
INSTITUTIONAL BIOTECH-HUB
BAHONA COLLEGE, JORHAT


(Dr. Pritamika M D Dutta)
PRINCIPAL
BAHONA COLLEGE, JORHAT

Discussion on ecology

JORHAT, June 7: A national webinar on different aspects of environmental protection was organised by the Institutional Biotech-Hub in association with the Students' Grievance Redressal Cell of Bahona College here on Saturday in sync with World Environment Day. The webinar, attended by over 1,000 participants from different parts of India and also from countries like the Philippines, Bangladesh, Saudi Arabia and Norway, was inaugurated by the Principal of the college, Dr Prasanna Kumar Dutta, and hosted by Dr Sangeeta Das, Assistant Professor, Department of Botany. The welcome speech was delivered by Dr Rafique Ahmed, Coordinator of IQAC of the college. – Staff Correspondent

INVITED ARTICLE

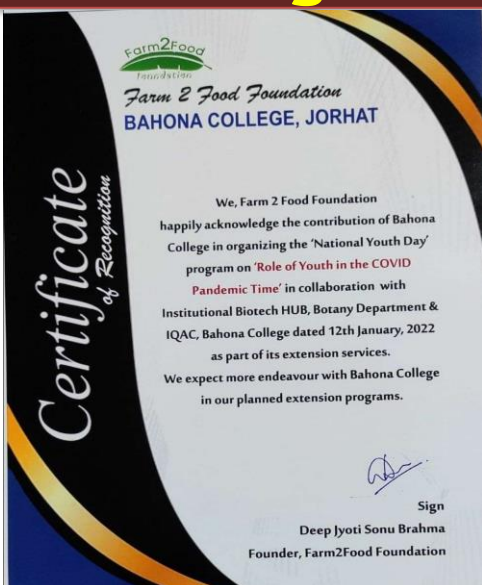
Plant Biotechnology and Food Security: A financial juggling Act, where sometimes the food ball gets dropped

Dr. Aamir Raina

Assistant Professor, Department of Botany,
Aligarh Muslim University, Aligarh.

The United Nations Food and Agriculture Organization (FAO) in 2009 emphasized the food security issues and estimated that agricultural production must increase by 70% to meet the food demands of an expected 9.6 billion people in 2050 and 11.5 billion by 2100. As a result of global food insecurity child malnutrition is another challenge, particularly in Africa and Asia. An estimated 149.2 million (nine out of ten) children under the age of five suffered from stunting due to severe acute malnutrition and is expected to worsen under the shadow of COVID-19 pandemic. To address the food insecurities, and to achieve the global food security and Sustainable Development Goal 2, intended to ensure a zero hunger and improved nutrition and a better future for all entails main transformations in global food systems. The FAO asserts that plant biotechnologies could play a vital role in achieving enough food production. In response to FAO recommendations many countries have adopted modern agricultural biotechnologies and their products such as genetically modified (GM) crops. For instance, Argentina, Australia, Brazil, Canada, and the United States of America have all permitted the production of GM crops. The breeding of improved crops especially with high micro nutrient density is vital that helps to overcome "hidden hunger" in addition to hunger itself. With advent of 'Omic' technologies which includes genomics, transcriptomics, proteomics and metabolomics, our crop breeding strategies have undergone a dynamic transformation during the past two decades. Modern biotechnologies to address food insecurity not only aim at increasing agricultural productivity but also deliver long-term sustainable enhancements in crop yields to keep up with demand as the world's population grows.

Recognition Received



Editorial Board

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