divergent of the proof To The Principal Katwa College Katwa, Purba Bardhaman

Sub: Application for financial assistance for paper presentation in International Conference.

Respected sir,

I Taniya Chatterjee have presented a paper named " State-of-the-Art in Feature Selection: Applications of the Slime Mould Algorithm" in the International Conference on Computational Technologies and Electronics (ICCTE-2023) on 23 rd – 25th November, 2023 Organized by Department of Computer Science & Technology, University of North Bengal, Siliguri, Darjeeling, W.B., India. As an author I have paid the registration fees Rs.4500/-.

I request you to kindly reimburse the registration fees at your earliest and oblige.

Thanking you.

Yours faithfully

Taniya Chathijer Taniya Chatterjee Designation - SACT-I **Department of Physics** Katwa College Dated - 01.12.2023

Documents Enclosed:

Certificate of Presentation

Money Receipt

Janiya Chathijer. Rectived. -04/12/2029

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INTERNATIONAL CONFERENCE ON COMPUTATIONAL TECHNOLOGIES AND ELECTRONICS (ICCTE-2023)

November 23-25, 2023

Organized by

Department of Computer Science & Technology, University of North Bengal

Technically Co-sponsored by:

IEEE CIS (Computational Intelligence Society), Kolkata Chapter :: IEEE EDS (Electron Devices Society), Kolkata Chapter
CSI (Computer Society of India), Siliguri Chapter

Certificate of Presentation

This is to certify that MRS. TANIYA CHATTERJEE of North Bengal University has presented a paper titler "State-of-the-Art in Feature Selection: Applications of the Slime Mould Algorithm" in the International Conference on Computational Technologies and Electronics (ICCTE-2023) held at University of North Bengal, Siliguri Darjeeling, W.B., India.

Dr. Sharad Sinha General Chair

Dr. Rakesh Kumar Mandal Convener

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Money Receipt

International Conference on Computational Technologies and Electronics (ICCTE-2023)

On

23rd-25th November, 2023

Organized by

Department of Computer Science & Technology, University of North Bengal

Name of the Author: Janya Chally is	
Paper Id	
Amount:	NBLI-CST-ICCTE
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	Signature of the Treasurer

Money Receipt

International Conference on Computational Technologies and Electronics (ICCTE-2023)

On

23rd-25th November, 2023

Organized by

Department of Computer Science & Technology, University of North Bengal

Name of the	Author:	Janiza	Chaldry er.	
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Anil Tada 24/11/23

Signature of the Treasurer

Extract from the proceedings of the meeting of the Governing Body in its meeting held on 21.07.2020 in the chamber of the Chairman, Katwa Municipality at 12Noon

Item No:11

The Principal proposes an incentive to the teachers for presentation of papers in National/International seminars/workshops/conferences. The GB discusses the matter and resolves that the Registration fee paid by the teachers for participating for paper presentation in such seminars/workshops/conferences may be born by the college upto a maximum of Rs.2000/- or actual whichever is lower. This may be provided to the teachers only once in an academic year (July to June). If more than the number of teachers applies for such incentive, the first ten presentations in order of the date of presentation would be considered.

> Dr. Nirmalendu Sarkar Principal/Secretary Katwa College Governing Body Abakt 12/2023

Prashant Raj Shukla, IAS President Katwa College Governing Body

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Registration fee / Donation for	the Seminar on 22-23 December, 2023.
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Sub- Submission of necessary documents for substantiating my participation in International Remiser at Bentum Sammilen College.

With due respect 9 by to inform you that 9 am Swandar Pal, a tenching faculty of your college, participated in an International Seminar, held at Bankura Samuilani College, Denkund on 22/12/2023. For your kind information 9 beg to Inform you that I had to deposit Rs - 800) - (Eight hundred only) as the registration for strick I have come to learn to be provided to me with by the College.

Therefore, 9 request you please take necessary steps as to frowide me with that amount and also sauchow me the ox-duby

leave for that above mentioned date.

This is for your kind information and necessary steps to be taken in favour of me.

Thanking you.

Date - 22/14/2023

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yours faithfully, Swendy Pal CACT Department of Betamy Katura Callege

MICROBIOLOGIST SOCIETY, INDIA (MBSI) SPONSORED



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INTERNATIONAL SEMINAR ON





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Dr. Swapan Mukhopadhyay

Dr. Swapna Mukherjee Notional Secretary MBS

Dr. Bipransh Kumar Tiwary State President West Bengal MBSI E. Handley





Antagonistic activity of Burkholderia cepacia P10 isolated from red lateritic soil of Birbhum district, West Bengal against phytopathogenia fungi

Ranjan Ghosh", Narayan Chandra Mandal'

Department of Botany, Bankura Sammilani College, Kenduadihi, Bankura, 722102 Mycology and Plant Pathology Laboratory, Department of Botany, Visva-Bharati, Santiniketan, 731235

E-mail: ybranian@smail.com

Abstract

One potent plant growth promoting rhizobacterial strain P10 isolated from the red lateritic soil of West Bengal showed very good antagonistic activity against number of phytopathogenic fungi. The strain was identified as Burkholderia repacts on the basis of 16S rDNA sequence homology. The isolate can produce significant zones of inhibition against Alternaria alternata, Rhizopus stolonifer, Helminthosporium compactum, Penicillium digitatum and Colletotrichum acutatum when tested by dual culture overlay method. Production of zones of inhibition by heat killed cell free supernatant indicated the thermostable nature of the antifungal principle. Scanning Electron Microscopic observation revealed mycelial degradation of the pathogenic fungi upon treatment with P10. Hydroxamate type of siderophore production by the isolate was also noticed which may also be responsible for its antifungal potential. Sufficient root colonizing potential of the isolate will also be helpful for inhibiting the pathogenic growth in the plant rhizosphere. In addition to its antifungal activity and siderophore production, the isolate also showed other plant growth promoting attributes like phosphate solubilization, N2 fixation and indole acetic acid production. Details investigations are still required for finding out the actual mechanism of antifungal activity and for its application as a biocontrol agent for improving crop plant growth.

Key words: Rhizobacteria; Antifungal activity; Siderophore; Root colonization; Biocontrol agent

ISMSOP26

Antimicrobial activity of some plant extracts against different bacterial strains causing livestock ailments in Purba Bardhaman district of West Bengal, India

Suvendu Pal, Dr. Asish Mondal*

Post Graduate Department of Botany, Ramananda College, Bishnupur, Bankura-722122, West
Bengal, India

Corresponding author's e-mail: mandalasish71@gmail.com

international Seminar on "Microbes and Social Equity" at B.S. College, December 22-23, 2023

obally, livestock ailments caused by different bacterial strains are serious poblem for livestock development. Nowadays rapid development of bacterial sistance against different antibiotics is a serious threat to global livestock ealth. To overcome this situation attention is being shifted towards bio-active gredients isolated from ethno-herbal plants which may be potential source of emative drugs in near future. The present study appreciates the ntibacterial effects of four herbal plants; sojne (Moringa oleifera), thankuni Centella asiatica), kathal (Artocarpus heterophyllus) and gholkhori (Neptunia deracea). These four plant extracts are used in three different solvents like chanol, methanol and distilled water at different concentration. Antibacterial civity test of four plant extracts is elucidated against Salmonella typhi, phylococcus aureus, Escherichia coli and Pseudomonas aeruginosa. The well diffusion method is used to evaluate the antibacterial activity of each t extract. Minimum inhibitory concentration (MIC) and minimum bectericidal concentration (MBC) of the extracts is determined through these assays. The effective plant extracts to be potentially used as natural ernative preventives of livestock ailments and may be the new field of terinary medicine near future.

Ecyword: Plant extract, livestock pathogen, antimicrobial activity, MIC, MBC

ISMSOP27

Characterization of Aeromonas-infecting bacteriophage AHPMCC11, a new species of genus Ahphunavirus

¹Smita Ghosh* and ²Kuntal Ghosh

**Department of Biological Sciences, Midnapore City College, Midnapore, West Bengal, India

ghoshsmital4@mail.com

stract

romonas hydrophila is a major aquatic habitat pathogen responsible for the economic losses in the aquaculture and food industry sectors. To combat hydrophila infection many antibiotics are used but antibiotic resistance is a major application to this world. In this study, we used bacteriophage to control A. drophila infection instead of antibiotic therapy. A lytic bacteriophage HPMCC11was isolated using from a sewage sample by using A. hydrophila TCC1739. Bacteriophage AHPMCC11 showed a short latent period of 10 min brust size was 22 PFU. Bacteriophage AHPMCC11 had potent deriolytic activity within 2 hours in liquid culture inhibition assay and film scavenging activity against A. hydrophila MTCC1739. It also had a

extract from the proceedings of the meeting of the Governing Body in its neeting held on 21.07.2020 in the chamber of the Chairman, Katwa funicipality at 12Noon

Item No:11

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> Dr. Nirmalendu Sarkar Principal/Secretary Katwa College Hested Body
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Prashant Raj Shukla, IAS President Katwa College Governing Body

VR- 432 / 2022- 23

STATEMENT OF EXPENSES INCURRED FOR PARTICIPATION IN THE NATIONAL SEMINAR ON "LITERARY THEORY AND THE LINGUISTIC TURN" ORGANIZED BY DEPT. OF ENGLISH, PURBASTHALI COLLEGE HELD ON 15.09.22

1. REGISTRATION FEES FOR FACULTY (02) bill 1 and 2

200 X2= Rs. 400

2. REGISTRATION FEES FOR STUDENTS (07) bill 3,4,5,6,7,8,9

150 x 7 = Rs 1050

3. TRAVEL EXPENSES (Train to and fro) bill 10,11,12

60 +40+40= Rs 140

4. TOTO FARE FOR 9 HEADS (from Purbasthali Station to College and return) bill 13

15x9 = Rs 135

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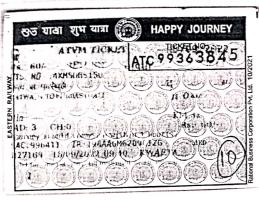
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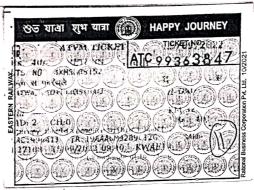
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