



Dr. CHIRANJIB BANERJEE, PhD

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DST INSPIRE Faculty
Department of Environmental
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Indian School of Mines
Dhanbad
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India

PRESENT STATUS

✚ **Joined 1st May, 2015 in *Environmental Science & Engineering Department* as a DST INSPIRE Faculty at Indian School of Mines, Dhanbad.**

EDUCATION & CERTIFICATION



YEAR	UNIVERISTY/BOARD	PERCENTAGE (%)	EXAM PASSED
2014	Birla Institute of Technology, Mesra	88	PhD
2009	Vidyasagar University	73	M.Sc. Biotechnology
2007	The University of Burdwan	64	B.Sc. Biotechnology
2004	Central Board Secondary Education	63	Class XII
2002	Central Board Secondary Education	67	Class X

Ongoing R & D Project

Algal biomass harvesting through bio-polymeric approach sanctioned by Department of Science & Technology, GOI. (Rs 35 Lakh)

PUBLICATIONS



2014

- Chiranjib Banerjee**, Sandipta Ghosh, Gautam Sen, Sumit Mishra, Pratyosh Shukla, Rajib Bandopadhyay. 2014. Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer. *Bioresource Technology*, 151: 6-11. (**Impact Factor 5.039**) ISSN: 0960-8524. (Elsevier) **Citation 3**.
- Dheeraj Singh, **Chiranjib Banerjee**, Animesh Sinha, Diwaker Prasad Nirala, Santosh Prasad, Rajib Bandopadhyay. 2014. Analysis of physical properties and biodiesel production from different accessions of *Jatropha curcas*. *Recent Advances in Bioenergy Research* Volume III. Editors: Sachin Kumar, A. K.

Sarma, S. K. Tyagi, Y. K. Yadav. Sardar Swaran Singh National Institute of Renewable Energy (SSS-NIRE), Kapurthala, India. ISBN 978-81-927097-2-7.

2013

3. **Chiranjib Banerjee** and Rajib Bandopadhyay. 2013. Flocculation: an approach towards Algae Harvesting. *Manual of Cryptogamic Botany*. Edited by: Dr Ruma Pal and Dr Samit Ray, Published by Probir Chatterjee Research Foundation, Phycology Laboratory, Department of Botany, University of Calcutta, 152-156.
4. Rajib Bandopadhyay, **Chiranjib Banerjee**, Arunabh Sarkar and Pratibha Gupta. Isolation of indigenous microalgae and biomass collection for biofuel production. *Proceeding of 2nd National Conference on Recent advances in Bio-Energy research*, SSS-NIRE, Kapurthala Volume II, 304-312. ISBN no. 978-81-927097-1-0.
5. Subhangi Goyal, Trisha Raj, **Chiranjib Banerjee**, Jahangir Imam, Pratyooosh Shukla. (2013) Isolation and characterization of probiotic microorganisms from curd and chilli sauce. *International Journal of Probiotics and Prebiotics*, ISSN 1555-1431 8: 91-94.

2012

6. **Chiranjib Banerjee**, Sandipta Ghosh, Gautam Sen, Sumit Mishra, Pratyooosh Shukla and Rajib Bandopadhyay. 2012. Study of algal biomass harvesting using cationic guar gum from the natural plant source as flocculant. *Carbohydrate Polymers*, 675-681, (**IF 3.916**), Citation 10, ISSN: 0144-8617, (Elsevier) **Citation: 15.**
7. **Chiranjib Banerjee**, Rajib Bandopadhyay, Pratyooosh Shukla. 2012. A simple novel agar diffusion method for isolation of indigenous microalgae *Chlamydomonas* sp. CRP7 and *Chlorella* sp. CB4 from operational swampy top soil. *Indian Journal of Microbiology*, 52:710-712, (**IF 0.832**) ISSN: 0046-8991, (Springer) **Citation: 4.**
8. **Chiranjib Banerjee**, Pratibha Gupta, Sumit Mishra, Gautam Sen, Pratyooosh Shukla, Rajib Bandopadhyay. 2012. Study of polyacrylamide grafted starch based algal flocculation towards applications in algal biomass harvesting. *International Journal of Biological Macromolecules*, 51, 456-461, (**IF 3.096**), ISSN: 0141-8130, (Elsevier) **Citation 17**

2011

9. **Chiranjib Banerjee**, Rajib Bandopadhyay, Pratyooosh Shukla. 2011. Microalgal biofuel towards sustainable development: promises and technologies for future. *International Journal of Advanced Biotechnology and Research*, 2(4): 481-483 (ISSN 0976-2612), **Citation 2.**
10. Pratyooosh Shukla, Rajib Bandopadhyay, Vijay Kumar, **Chiranjib Banerjee**, A Report on the '51st Annual Conference of Association of Microbiologists of India (AMI) (December 14-17, 2010; Venue: Birla Institute of Technology, Mesra, Ranchi, India), *Indian Journal of Microbiology* (Oct-Dec 2011) 51: 537-538, (**IF 0.832**) ISSN: 0046-8991 (Springer).

AWARDS & RECOGNITION

- ✚ Awarded with **DST INSPIRE Faculty, Department of Science & Technology, Govt. of India** (Session II, July advertisement, 2014).

- ✦ Awarded with **Chinese Academy of Sciences-President's International Fellowship Initiative (CAS-PIFI) postdoctoral** fellowship for 2015 session at Institute of Process Engineering, Beijing, China.
- ✦ **Young Scientist Award (YSA)** from Association of Microbiologist of India (AMI) in Molecular Microbiology and Biotechnology section organized by Maharshi Dayanand University, Rohtak, Haryana, India from 17 -20 Nov, 2013.
- ✦ **Senior Research Fellowship** from **CSIR, Govt. of India**
- ✦ Shortlisted for **Young Scientist Award (YSA)** in Indian Science Congress Association (ISCA) for YSA paper presentation in 2012-2013 in plant science section.
- ✦ **Best Poster Award** in Association of Microbiologist of India (AMI)-2010.

STRAIN SUBMISSION

- ✦ Isolated *Chlamydomonas* sp **CRP7** submitted to UTEX Culture Collection Centre, UTEX, USA with accession number *Chlamydomonas* sp **UTEX 2974**.

SEQUENCE SUBMITTED

- ✦ **Four ITS sequences from green microalgae**
JQ408690, JQ710681, JQ710682, JQ710683
- ✦ **Thirty six 16s rRNA sequence from marine bacteria**
KF019643 TO KF019678

CONFERENCE, WORKSHOP, SYMPOSIUM AND TRAINING PROGRAMME ATTENDED

- ✦ International Conference on Algal Biorefinery (ICAB – 2013), Organized by IIT Kharagpur, DTU and IARI, January 10-12, 2013
- ✦ 100 Years of Indian Science Congress, Organized by ISCA, CU and others, January 3-7, 2013
- ✦ 2nd National Conference on **Recent Advances in Bio-Energy Research**, Dec 7-8, 2012, SSS NIRE, Kapurthala, Punjab, India
- ✦ 53rd Annual conference of **Association of Microbiologist of India (AMI)** 2012. Nov 22-25,2012, KIIT, Bhubaneswar, India.
- ✦ National workshop on “**Intellectual Property Rights**” organized by Birla Institute of Technology, Mesra, Ranchi on 02December 2011.

- ✦ National workshop on “Present Scenario and Future Prospect of Cryptogamic Botany” organized by Department of Botany, University of Calcutta from 9-11 November, 2011.
- ✦ National symposium on Genomics Research and Impact in Plant System, organized by Centre of Advanced Study, Department of Botany, University of Calcutta, supported by UGC-CAS programme & DBT-programme support. (21st March, 2011)
- ✦ National Workshop on “*Modelling and Simulation of Biological Processes*” organized by Dept of Biotechnology, NIT Durgapur and TEQIP (July 2008)
- ✦ National Symposium on “*Medicinal Plants: Role of Biotechnology and Bioinformatics*” jointly organized by Department of Biotechnology, Birla Institute of Technology, Mesra, Ranchi and BTIS Net, DBT, Govt. of India (August 2006)
- ✦ Uploaded a video related to *Chlamydomonas sp* on YouTube
LINK: <http://www.youtube.com/watch?v=XWd9-Un-zRk>

ABSTRACTS IN INTERNATIONAL MEETINGS/CONFERENCES

- ✦ **Chiranjib Banerjee**, Pratyoosh Shukla and Rajib Bandopadhyay. *Identification of microalgae through molecular tools*. 55th Annual conference of Association of Microbiologists of India (AMI-2014) 12-14, November 2014, Tamil Nadu Agricultural University, Coimbatore-641003, India.
- ✦ Siddhartha Sengupta, **Chiranjib Banerjee**, Pratibha Gupta, Ramesh Chandra, Rajib Bandopadhyay. *Screening and partial characterization of an exopolysaccharides produced from Antarctic marine bacteria*. 55th Annual conference of Association of Microbiologists of India (AMI-2014) 12-14, November 2014, Tamil Nadu Agricultural University, Coimbatore-641003, India.
- ✦ Rajani S, **Chiranjib Banerjee**, Rajib Bandhopadhyay, Mandira Mukherjee and Padmini Padmanabhan. *Effect of cationic modifiers on the rheological behaviour of bio-flocculants*. 55th Annual conference of Association of Microbiologists of India (AMI-2014) 12-14, November 2014, Tamil Nadu Agricultural University, Coimbatore-641003, India.
- ✦ **Chiranjib Banerjee**, Pratyoosh Shukla and Rajib Bandopadhyay. *Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer*. 54th Association of Microbiologist of India (AMI-2013) 17-20, November 2013, Maharshi Dayanand University and NIFTEM, Rohtak, Haryana, India.
- ✦ Nidhi Gaur, **Chiranjib Banerjee**, Koel Mukherjee and Rajib Bandopadhyay. *Comparative genomics study of *Chlamydomonas reinhardtii* and *Chlorella variabilis**. 54th Association of Microbiologist of India (AMI-2013) 17-20, November 2013, Maharshi Dayanand University and NIFTEM, Rohtak, Haryana, India.
- ✦ Dheeraj Singh, **Chiranjib Banerjee**, Animesh Sinha, Diwakar Prasad Nirala, Santosh Prasad Nirala, Rajib Bandopadhyay. *Analysis of Physico-Chemical Properties of Seeds of *Jatropha curcus* for Biodiesel Production*. 54th Association of Microbiologist of India (AMI-2013) 17-20, November 2013, Rohtak, Haryana, India.
- ✦ **Chiranjib Banerjee**, Pratyoosh Shukla & Rajib Bandopadhyay. *Isolation, Characterization and Bioflocculation of Fresh Water Microalgae For Their Biological Potential*. The International conference on Algal Biorefinery: A Potential source of Food, Feed, Biochemicals, Biofuels and Biofertilizers, ICAB 2013, IIT Kharagpur, January 10-12, 2013.

- ✦ **Chiranjib Banerjee**, Pratyoosh Shukla & Rajib Bandopadhyay. *Bioharvesting of Chlorella Sp. CB4 Using St-g-Pam And Cationic Guar Gum As A Natural Flocculant*. 53rd Annual conference of Association of Microbiologist of India (AMI) 2012. Nov 22-25, 2012, KIIT, Bhubaneswar, India.
- ✦ Arunabh Sarkar, **Chiranjib Banerjee**, Mousumi Poddar Sarkar and Rajib Bandopadhyay. *Studying the Potential of An Isolated Algal Strain Of Desmodesmus Sp For The Production Of Biodiesel*. 53rd Annual conference of Association of Microbiologist of India (AMI) 2012. Nov 22-25, 2012, KIIT, Bhubaneswar, India
- ✦ Pratibha Gupta, **Chiranjib Banerjee**, Rajib Bandopadhyay. *Screening of Isolated Fresh And Marine Microalgae For Antibacterial Activity*. 53rd Annual conference of Association of Microbiologist of India (AMI) 2012. Nov 22-25, 2012, KIIT, Bhubaneswar, India
- ✦ Pratibha Gupta, **Chiranjib Banerjee**, Gautam Sen, Sumit Mishra, Pratyoosh Shukla & Rajib Bandopadhyay. *Biomass Collection From Microalgae Through Flocculation*. 2nd International conference on Challenges In Biotechnology And Food Technology, ICBF-2012, Annamalai University, CAS in Marine Biology, Tamilnadu, India.
- ✦ Pratibha Gupta, **Chiranjib Banerjee**, Pratyoosh Shukla & Rajib Bandopadhyay. *Beneficiary Role of Microalgae Against Arsenic Contamination*. 15th All India Congress of Cytology and Genetics & Fogarty International Workshop on Arsenic Contamination in Groundwater: Health Effects, Molecular Epidemiology, Susceptibility & Mitigation, Nov 21-23, 2011.
- ✦ **Chiranjib Banerjee**, Pratyoosh Shukla, Rajib Bandopadhyay. *It's Region Characterization of Selected Microalgae* International Workshop on Algae Technology, hydrogen Production and Use of Algae Biomass, Kolkata, India, 17-18 October 2011.
- ✦ **Chiranjib Banerjee**, Rajib Bandopadhyay, Pratyoosh Shukla, Ramesh Chandra. *Study of Scanning Electron Microscopy and Growth of Hydrogen Producing Indigenous Green Micro Algal Species*. 51st Annual conference of Association of Microbiologist of India (AMI) 2010. December 14-17, 2010, Ranchi, India (**Awarded As Best Poster**)

ABSTRACTS IN NATIONAL LEVEL CONFERENCES

- ✦ Nidhi Gaur, **Chiranjib Banerjee**, Koel Mukherjee and Rajib Bandopadhyay. Comparative analysis of Tandem repeats in eight different species. 5th Indian Youth Science Congress (IYSC-2013), Organized by MS Swaminathan Research Foundation, SRM University, Rajiv Gandhi Univ and Visva Bharati, Shantiniketan, on December 6-9, 2013
- ✦ **Chiranjib Banerjee**, Rajib Bandopadhyay, Pratyoosh Shukla, Ramesh Chandra. "An Overview Of Hydrogen Producing Potential Of Few Indigenous Microalgae" (National Seminar on Application of Biotechnology and Development of Bihar organized by Central University of Jharkhand and Birla Institute of Technology In collaboration with Bihar Council on Science and Technology at Patna on March 22-24, 2010)

PROFESSIONAL QUALIFICATION (TRAINING PROGRAMME)

- ✦ International Workshop on RNA Sequencing, Phylogeny and Next Generation Sequencing: 14-17 December 2010 at *Birla Institute of Technology, Mesra, Ranchi*.

- ✚ Selected and Pursued Training on Blue Green Algae - Application in Agriculture and Industry: May 11-19, 2010 at *Indian Agricultural Research Institute (IARI), New Delhi.*
- ✚ M.Sc. project on Physiochemical tests for preferential use of certain variety of rice for puffing: *National Institute of Technology, Durgapur.* (2009)
- ✚ B.Sc. project on Basic technique on tissue culture: *Bose Institute.* (2007), Kolkata.

ORAL PRESENTATION

- ✚ “Isolation, Characterization and Bioharvesting of Microalgae” 54th Annual conference of Association of Microbiologist of India (AMI) 2013. November 17-20, 2013
- ✚ “Isolation, Characterization and Bioharvesting of Hydrogen Producing Algae” in 100th Indian Science Congress, Organized by ISCA, CU, Kolkata January 3-7, 2013
- ✚ “Isolation of indigenous microalgae and biomass collection for biofuel production” in 2nd National Conference on Recent Advances in Bio-Energy Research, December 7-8, 2012 at Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala-144601 (Punjab).

INTERESTED IN

Photography



Music



Travelling



LIFE MEMBERSHIP OF SCIENTIFIC SOCIETY

- ✚ **Association of Microbiologists of India (AMI)**
- ✚ **Probir Chatterjee Research Foundation**

REFERENCES

- **Dr. Rajib Bandopadhyay**
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Department of Botany
The University of Burdwan
West Bengal, India
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- **Dr. Pratyosh Shukla**
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Maharshi Dayanand University, Rohtak
Haryana, India
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Phone: +91-8813866019
- **Dr. Sunil Pabbi**
PRINCIPAL SCIENTIST
Centre for Conservation and Utilisation of BGA
Division of Microbiology
Indian Agricultural Research Institute
Email: sunil.pabbi@gmail.com
Phone: 9818024130

DECLARATION

I hereby declare that all the statements made in this application are true, complete & correct to the best of my knowledge & belief.

Place: Dhanbad
Date: 1st May, 2015

CHIRANJIB BANERJEE
