

DR. BISWAJITDEBROY

Assistant Professor,

Department of Botany, Cachar College, Silchar

PO: Silchar-788001, Cachar, Assam, India

Name: Dr. Biswajit Deb Roy

Designation: Assistant Professor

Qualification: M.Sc. (Gold Medal); Ph.D.; B.Ed.; PGDBI; UGC-SLET; Biotechnology National Associateship of DBT, GoI; DCA

Areas of interest: Microbial Ecology, Microbial biochemistry, Microbial nitrogen fixation, Asymbiosis (Free-living & associative bacteria), Cell organization and Microbial physiology, Industrial & Environmental Microbiology and Microbial Technology, Molecular Biology & Biotechnology, Bioinformatics, Plant Biodiversity, etc.

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Awards: (1) **Gold medal, Merit prize and Endowment award** for holding 1st class 1st position in PG (jointly from Dept. of Life Science and Dept. of Ecology) Examination 2004 under Assam University.
(2) **NER-Biotechnology National Associateship Award 2012-13** of DBT, Govt. of India.
(3) **Ideal Teacher Award** from Judhisthir Saha H.S. School, Cachar, Assam in 2016.
(4) DBT, Govt. of India nominated as Coordinator, Biotech Lab, under BLiSS Programme (2015-2017).
(5) Principal Investigator, DBT Foldscope Project(2018-2020).

Educational Profile:

No	Degree	Subject/Area	Institute
1	B.Sc. Hons	Botany Honours	Gurucharan College, Silchar Silchar
2	M.Sc.(Gold Medal)	Life Science (Botany)	Assam University, Silchar
3	B.Ed.	Education, Life Science & Mathematics Method Papers	T.T. College, Silchar
4	Ph.D.	Agricultural Microbiology & Microbial Ecology	Assam University, Silchar
5	PGDBI (1st Rank)	Bioinformatics	Assam University, Silchar
6.	DCA	Computer Application	CSI, Mumbai NE Chapter

Teaching and Research experience:

No	Name of Post	Institution
1	UGC-JRF	Microbiology Lab, Dept. Of Botany, G.C.College, Silchar
2	Part time Lecturer	Dept. Of Biotechnology, G.C. College, Silchar
3	PGT/ST(Botany)	Judhisthir Saha H.S.School, Cachar, Assam
4	Guest Faculty	Dept. Of Microbiology, Assam University, Silchar
5	Visiting Faculty	Bioinformatics Centre, G.C. College, Silchar
6	Guest Faculty	Dept. Of Botany, G.C. College, Silchar
7	Assistant Professor & Head, Dept. of Botany	Pandit Deendayal Upadhyaya Govt. Model College, Eraligool, Karimganj
8	Assistant Professor	Department of Botany, Cachar College, Silchar

Research Papers Published in National/International Journal (last 5years only) Total: 27

- 1) Bibhas Deb, Susanti NG, Soumitra Nath, Kaberi Deb and **Biswajit Deb Roy** (2015):“Antimicrobial efficacy of *Azadirachta indica* and *Leucas aspera* in comparison to commercial antibiotics”. International Journal of Current Research vol.7, Issue, 03, March, 2015. pp. 13093-13098.
- 2) **B. Deb Roy**, B. Deb and G.D.Sharma (2013):“Biofertilization of field grown winter (*kharif*) rice cv.Ranjit by native diazotroph strains of rice agro-ecosystems of Southern Assam, India”. Microbiology Research International.ISSN:1139-6709.
- 3) **B. Deb Roy**, B. Deb and G.D. Sharma (2013):“Isolation, characterization and screening of *Burkholderia caribensis* of rice agro-ecosystems of South Assam, India”. pp. 349-357. African Journal of Agricultural Research Vol.8(4). 6th February,2013.

Book Chapter or Edited Book Published (last 5 year only) Total: 7

- 1) **B. Deb Roy**, B. Deb and G.D. Sharma (2010): "Status of biofertilizers utilization and management in Southern Assam (Barak Valley)-An overview". In: "Status and Conservation of Bio diversity in North East India"(Eds.Choudhury,M.D.;Sharma,G.D.;Choudhury,S.andTalukdar,A.D.),2011,Swastik Publication, New Delhi(India). pp. 245-254.
- 2) **B. Deb Roy**, B. Deb and G. D. Sharma (2010): "Bio-screening of native strains of diazotroph for their efficacy to improve growth and yield of rice *cv*.IR-36". In: "Status and Conservation of Bio-diversity in North East India"(Eds. Choudhury, M.D.; Sharma, G.D.; Choudhury, S. and Talukdar, A.D.),2011,Swastik Publication, New Delhi (India).pp.255-271.
- 3) **B. Deb Roy**, B. Deb and G.D. Sharma (2015): "Seasonal variation of N₂ fixing bacterial population in rice agro-ecosystems of South Assam, India and their biochemical characterization". In: "Sustainable Biodiversity in the 21st Century" (Eds. Dutta, B.K. and Choudhury, P.),2015, Published by Assam University, Silchar.pp.5-15.
- 4) **Biswajit Deb Roy** and Mukul Kumar Baruah (2021): "Estimation of Diazotrophic Rhizobacterial Population in Acidic Lowland Rice Agro-ecosystem Soil of Barak Valley Region of Assam, India to Assess Their Plant Growth Promoting Traits". In: Recent Trends in Basic Science Researches in Northeast India, vol.-2, year 2021. ISBN: 978-81-953494-5-6. pp. 17-32
- 5) Biswajit Deb Roy, Mukul Kumar Baruah and Shwetosmita Nath (2021): "Beautiful Wild Aquatic Angiospermic Flora of Cachar District of Assam, India". In: Recent Trends in Basic Science Researches in Northeast India, vol.-2, year 2021. ISBN: 978-81-953494-5-6. pp-12-16.

Book Published (last 5 years only) Total: 1

- 1) "Biofertilizers for Rice Cultivation". Published by Swastik Publication. New Delhi in 2017. ISBN: 978-93-83762-36-1.

Invited Talk in Seminar, workshop (last 5 years only) Total: 18

- 1) Invited talk and demonstration on "Mushroom Cultivation" in two days training programme on "Mushroom Cultivation & Vermicompost Production" 06-07th July'2017 organized by Biotech Lab, Judhithir Saha H.S. School, Cachar, Assam sponsored by DBT, New Delhi, Govt. of India.
- 2) Invited talk on "Recent trends in Microbiology Research" in three days workshop on "Recent Trends in Biotechnology Research" 24-26th December'2015 organized by Institutional Biotech Hub, Gurucharan College, Silchar-788004, Assam sponsored by DBT, New Delhi, Govt. of India.
- 3) Invited talk and demonstration lecture on "Microbiology: Tools and Techniques" in two days workshop on "Biotechnology: Tools and Techniques" 30-31st Jan'2013 organized by Institutional Biotech Hub, Gurucharan College, Silchar-788004, Assam sponsored by DBT, New Delhi, Govt. of India.
- 4) Invited talk as Master Trainer (Science) on Learning Enhancement for Slow Learners of Class IX in Two days District Level Non-Residential Orientation Programme for High School Science Teachers on 3rd & 4th January'2014 held at Govt. Girls H.S. & M.P. School, Silchar organized by District Programme Coordinator, RMSA, Cachar.
- 5) Invited talk as Resource Person in District Level Guide Teachers Training Programme of 21st National Children Science Congress on 04th Aug'2013 held at Gurucharan College, Silchar.
- 6) Invited talk as Scientific Expert in North East Green Summit 5th Edition held on 16-18 November, 2020 at IIT, Guwahati.