SANDIP DAS

Assistant Professor of Botany

Contact Address :
School of Sciences.
Durgapur Regional Centre,
Netaji Subhas Open University
Durgapur, West Burdwan,
State: West Bengal
INDIA
Email: sandipdas@wbnsou.ac.in

Academic Qualification :

- Ph.D. Coursework in **Life Sciences**, 2015, **Presidency University**, Kolkata, West Bengal, INDIA.
- **B.Ed.SEDE** in Mental Retardation (RCI Approved), 2015, **Netaji Subhas Open University**, Kolkata, West Bengal, INDIA.
- **M.Sc.** in **Botany**, 2012, Presidency College, **University of Calcutta**, Kolkata, West Bengal, INDIA.
- **B.Sc.** in **Botany** (Hons.), 2010, **University of Calcutta**, Kolkata, West Bengal, INDIA.

Honours/Awards :-

Name	Year	Field	Awarded by
NET	2017	**Life Sciences**	**CSIR-UGC**
RGNF	2016		**UGC**
SET	2015		**WBCSC**
PU-JRF	2015		**Presidency University**
GATE	2018		**IIT Guwahati**
	2017		**IIT Roorkee**
	2016		**IISC Bengaluru**
	2014		**IIT Kharagpur**
RET	2013	Biological Sciences	**Presidency University**
Smt. Dolly Mukherjee Memorial Prize	2009	Human Physiology	**Serampore College**

Employment Experience:-

❖ **Teaching Experience :-**

- Assistant Professor (02.07.2018 to till date) in the School of Sciences, Durgapur Regional Centre Netaji Subhas Open University, West Burdwan, West Bengal, India.

Research Experience :-

- 3 years full time research scholar at Department of Life Sciences in Presidency University, Kolkata.
- Successfully completed a **"workshop and Hands-on-Training on Plant DNA Fingerprinting and Diagnostics of Medicinal Potential in Plants"** held at **Bose Institute** (Main Campus).
- One & half month hands-on training on **"STUDY of Trehalose Metabolism"** under the supervision of Dr. Anil Kumar Ghosh, Dy. Director (Scientist-G), **Indian Institute Of Chemical Biology**, West Bengal, India.

Research Interest:-

- Phylogenetic Diversity of Legume-nodulating Bacteria.
- Structural characterization of rhizobial exopolysaccharide.
- Nanomaterials.

Specialization :-

- Microbiology

Fellowship :-

- Prestigious **RGNF** from **UGC, New Delhi**.

Previous & Present Employment:-

- Assistant Professor (02.07.2018 to till date) in the School of Sciences, Durgapur Regional Centre Netaji Subhas Open University, West Burdwan, West Bengal, India.

Administrative Experience:-

- Associated with UG Board of Studies (BOS) of Botany as an **internal member**, School of Sciences, Netaji Subhas Open University.

Professional Responsibilities:-

- Associated as paper setters, moderators, examiner and **head examiner** of Botany of School of Sciences, Netaji Subhas Open University.
- Registered as a Special Educator (Mental Retardation) under RCI, New Delhi, INDIA.

Others Proficiency:-

- **Spoken English**:-
  - **Intermediate 2** from **British Council.**
- **Computer**
  - **From NIELIT (formerly DOEACC)**
    - IT Tools and Business Systems
    - Introduction to ICT resources
    - Internet Technology and WEB Design
  - **From WB Gov. Youth Computer Training Center**
    - CITA

Seminar/Conferences :-

- **International :-**

  - **Sandip Das** and Rabindranath Bhattacharyya.Effect Of Heavy Metals On Growth And Indole Acetic Acid Production By A Root Nodule Bacteria Of Sundarban Soil.in The First International Conference On Bio-Resource And Stress Management. Kolkata, India. Manuscript No. 505.6th-9th Feb. 2013.
  - **Sandip Das** and Rabindranath Bhattacharyya."Isolation and characterization of a potent salt tolerant exopolysaccharide producing *Rhizobium* from the root nodule of S*esbania cannabina*.",in The 5th International Botanical Conference, University of Dhaka, Bangladesh,9th-11th Dec.,2011.(Accepted)

- **National :-**

  - Rabindranath Bhattacharyya,Anasua Nath**,Sandip Das .**Bioproduction of Ascorbic Acid by a *Rhizobium sp*. Isolated From The Root Nodules Of *Sesbania cannabina (Wild.) Pers*. In Heavy Metal Stress Condition**.** National Conference On Current Trends In Life Sciences Research And Challenges Ahead, School Of Life Sciences,Sambalpur University,Sambalpur,Odisha,INDIA.ABSCC6,Oral Presentation.28th Feb.-2nd March,2014..
  - **Sandip Das**,Rabindranath Bhattacharyya."Production and optimization of exopolysaccharide by *Rhizobium sp*. Isolated from the root nodules of *Trigonella foenum-graceum*" in the section of **PLANT SCIENCES** during the **100th INDIAN SCIENCE CONGRESS,KOLKATA,**Pp-102.**Poster Presentation.**3rd-7th Jan,2013.
  - Amit Mandal**,Sandip Das,**Rabindranath Bhattacharyya**."**Antimicrobial Effect Of *Blumea lacera* Against Some Multidrug Resistant Bacteria"**.** in **National Conference On New Frontiers In Medicinal Plant Research**.,Sikkim University, Gangtok,INDIA.3rd-4th Oct,2013**.** (**Accepted**)

List of Publications

a) Research Articles :- (International = 01; National = 03)

2018

- **Sandip Das**, Ipsita Kumar Sen, Ahmet Kati, Sudip Some, Amit Kumar Mandal, Syed Sirajul Islam, Rabindranath Bhattacharyya, Aparna Mukhopadhyay (**2018**). Flocculating, emulsification and metal sorption properties of a partial characterized novel exopolysaccharide produced by Rhizobium tropici SRA1 isolated from Psophocarpus tetragonolobus (L) D.C.. Int. Microbiol., pp 1-11, (Springer nature, I.F. 1.05).

2016

- Rabindranath bhattacharyya, **Sandip das** and Tanusree Chandra (**2016**). Toxicity of agrichemicals on growth and indole acetic acid production by a *Rhizobium* sp. Indian Biologist vol 48(1), pp 07-12. **ISSN**: **0302-7554**.

2015

- Rabindranath Bhattacharyya, **Sandip Das** and Sharmistha Basu (**2015**):Bioproduction of indole acetic acid by a Rhizobium sp. in heavy metal stress condition. Journal of Botanical society of Bengal. vol 69(2), pp 141-146. **ISSN**: **0971-2976**.

- Rabindranath Bhattacharyya and **Sandip Das (2015)**: Exopolysaccharide production by a *Rhizobium* sp. From root nodules of *Phaseolus mungo* (L.) in heavy metal stress condition in Indian Biologist. vol 47(1), pp 53-59. **ISSN**: **0302-7554**.

b) Book Chapters :

2017

- Rabindranath Bhattacharya, **Sandip Das**, Raktim Bhattacharya, Madhurima Chatterjee and Abhijit Dey, (**2017**) "Rhizobial Exopolysaccharides: A Novel Biopolymer for Legume- Rhizobia Symbiosis and Environmental Monitoring" In "**Microbes for Legume Improvement**", editors Almas Zaidi, Mohammad Saghir Khan and Javed Musarrat, **Springer International Publishing AG, Cham**. 119-133. **eBook ISBN 978-3-319-59174-2.**

2016

- **Sandip Das** and Rabindranath Bhattacharyya, (**2016**) "Potential Characteristic Features of Biofertilizers" In "**Recent Trends in Biofertilizers**",editors Prof. Bikas R. Pati and Dr. Santi M. Mandal, publisher I.K. International Publishing House Pvt. Ltd. New Delhi, INDIA. 240-250. **ISBN: 978-93-84588-65-6.**

2014

- Dr. Rabindranath Bhattacharyya, **Sandip Das**, Souryadeep Mukherjee and Abhijit Dey. (**2014**) **"** Antibacterial Effect of Rhizobial Exopolysaccharide Against Some Multidrug Resistance Human Pathogens**."** In **"Utilization and Management of Medicinal Plants"- Vol. 2,** editor V.K.Gupta,publisher M/S Daya Publication House, New Delhi. 415-419. **ISBN: 9788170358756.**

NCBI Submission:-

- 16s rRNA gene sequence of **30 different bacterial** isolate submitted to NCBI database, United States.

Patent:-

- 01 (under process).

Membership(s) of the Society:

- Botanical Society of Bengal (Applied).

Hobbies and Other Activities:-

- Yoga, Gardening, Nature Photography and Botanical Excursion etc.