



DR.SABYASACHI CHATTERJEE

M.Sc, Ph.D

Assistant Professor

Department of Botany

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AREAS OF INTEREST/SPECIALISATION

- Microbiology
- Molecular Biology
- Bioremediation
- Ethnobotany

ACADEMIC ACHIEVEMENTS

- I. Awarded for standing **First Class First** in **M.Sc (Microbiology)**.
- II. Ranked **First** in the merit list of B.Sc (Microbiology).
- III. Biography was accepted for publication in the 33rd Edition of World's WHO'S WHO in the November, 2015.
- IV. One of the members for Technical Committee in 21st State Science Congress in 2014.

RESEARCH EXPERIENCE

From	To	Name and Address of Organization	Position held
2016	onwards	Department of Botany of Ramananda College, Bankura University	Assistant Professor
2014	2016	Department of Biotechnology, The University of Burdwan Department	Faculty(Contractual)
2007	2014	Department of Botany The University of Burdwan	Part time Scholar
2002	2006	Department of Chemistry Jadavpur University	JRF

ACADEMIC EXPERIENCE

- I. Joined Ramannada College, Bishnupur, Bankura on 22.12.2016 as Assistant Professor of Botany.
- II. Acting as Visiting Faculty in the Engineering Departments of Aliah University from 10.02.2020.
- III. Acted as a Guest Lecturer in the Department of Biotechnology, Burdwan University from April, 2017 to 2018.
- IV. Acted as a Full time faculty (contractual) in the Department of Biotechnology, The University of Burdwan from 2007 to 2016.
- V. Acted as a Lecturer (Contractual) in the Department of Microbiology, Asansol Girls' College, and the University of Burdwan from 2002 to 2007.

ADMINISTRATIVE EXPERIENCE

- Acting as HOD of Botany Department of Ramananda College, Bishnupur, Bankura from 01.07.2020.
- Experienced in organization of Colloquium, Seminar etc.
- Members of different committee of Ramananda College (Purchase, Research, Sports, Antiragging etc.)

PUBLICATIONS

- I. Soumik Chatterjee & **Sabyasachi Chatterjee*** (2020). [COVID-19 Diagnosis, Treatments and Prevention: A Review](#). Journal of Advances in Medicine and Medical Research. 32(17):17-34.
- II. Soumik Chatterjee & **Sabyasachi Chatterjee*** (2020). [Various nanoparticles and their in vivo toxicity: A Review](#). Ecronicon Agriculture.6(7):22-27.
- III. Soumik Chatterjee & **Sabyasachi Chatterjee***(2020). Toxic effects of Arsenic Trioxide (As₂O₃) on genotoxicity and cytotoxicity by use of *Allium cepa* L. Journal of advanced Scientific Research. 11(5): 121-124.
- IV. **Sabyasachi Chatterjee*** (2020). A review on Arsenic Management. Juni Khyat. 79-88.
- V. Soumik Chatterjee & **Sabyasachi Chatterjee*** (2019). Phytoremediation Technology: A Review. International Journal of Scientific Research & Reviews 8 (4), 268-281.
- VI. Sen Sushobhan, Chandra Indrani, Khatun Arjina, **Chatterjee Sabyasachi**, Das Sumanta (2018). Agrohomeopathy: An emerging field of agriculture for higher crop productivity and protection of plants against various stress conditions. IJRAR. 5(4): 52-56.

- VII. Das Sumanta, Chandra Indrani, **Chatterjee Sabyasachi** (2017). A short review on heavy metals accumulation through phytoremediation. *Frontiers in multidisciplinary Research*. 1:49- 53.
- VIII. Rikta Dhali, Arpita Dey, Amarnath Chattopadhyay, Pradipta Saha, Subhra Kanti Mukhopadhyay Pranab Roy and **Sabyasachi Chatterjee** (2016). Isolation, characterization and study of amylase activity of microorganisms from Arctic soil sample. *Accounts of Biotechnology Research*. 3(1):5-15. [Nat.] 2.
- IX. Budhaditya Ghosh, **Sabyasachi Chatterjee**, Indrani Chandra (2015). Fenugreek (*Trigonella foenum-gracum* L.) and its necessity (A Review paper). *Fire Journal of Engineering and Technology*. 1(1):60-67. [Int].
- X. **Chatterjee S**, Bhakat M, Keshri JP, Chandra I (2015). Medicinal Plants: Old wine in a new bottle (Editorial article). *Med Aromat Plants*. 4(3): <http://dx.doi.org/10.4172/2167-0412.1000e160>. [IF-2.02] [Int].
- XI. Mousumi Chatterjee, Indrani Chandra, **Sabyasachi Chatterjee** (2015). *Flacourtia indica* (Burm.f.) Merr. – An Ethnopharmacologically valuable plant (Review Paper). *International Journal of Herbo Medica*. 2 (1):26-27.
- XII. Sumanta Das, Shahid Jamal, Madhurima Dutta, Sarmistha Rej and **Sabyasachi Chatterjee** (2015). Comparative phytochemical analysis and antimicrobial activity of four medicinal plants. *European Journal of Medicinal Plants*. 6 (4): 191-199. ISSN 2231-2612 [Int.]
- XIII. Madhurima Dutta, Rej Sarmistha, Shahid Jamal, Sumanta Das and **Sabyasachi Chatterjee** (2014) .Study of Phytochemical constituents and antimicrobial activity of *Calotropis gigantean*. *Int. Sc. Journal*. 1 (4):15-28. [Int]
- XIV. Sarmistha Rej, Madhurima Dutta, Shahid Jamal, Sumanta Das and **Sabyasachi Chatterjee** (2014). Study of Phytochemical Constituents and Antibacterial Activity of *Clerodendrum infortunatum*. *Asian Journal of Research in Pharmaceutical Science*. 4(4):187-195. [Int.]
- XV. **Sabyasachi Chatterjee**, Aparna Banerjee, Indrani Chandra (2014) *Hemidesmus indicus*: A Rich Source of Herbal Medicine (Editorial article). *Med Aromat Plants*. 3: e155. doi: 10.4172/2167-0412.1000e155. [IF-2.02] [Int.]
- XVI. Arpita Dey, Amarnath Chattopadhyay, Subhro Kanti Mukhopadhyay, Pradipta Saha, **Sabyasachi Chatterjee**, Tushar Kanti Maiti and Pranab Roy (2014). Production, Partial purification and characterization of an Extracellular Psychrotrophic Lipase from *Pseudomonas* sp. ADT3. *Journal of Bioremediation and Biodegradation*. 5(6): 1000242. (IF-3.5) [Int.] [Citations-4]
- XVII. Amar Nath Chattopadhyay, Arpita Dey, Pranab Roy, **Sabyasachi Chatterjee**, Pradipta Saha and Subhra Kanti Mukhopadhyay (2014). Cold active extracellular hydrolytic enzyme producing culturable heterotrophic bacteria from Ny-Alesund, Arctic. *International Journal of Advanced Biotechnology and Research*. 5(3):271-278. [IF-1.5] ISSN 0976-2612. [Int.] [Hindex 9]
- XVIII. Arpita Dey, Amarnath Chattopadhyay, Pradipta Saha, Subhrakanti Mukhopadhyay, Tushar Kanti Maiti, **Sabyasachi Chatterjee**, Pranab Roy (2014). An Approach to the Identification and Characterisation of a Psychrotrophic Lipase Producing *Pseudomonas* sp ADT3 from Arctic Region. *Advances in Bioscience and Biotechnology*. 5:322-332. ISSN Print: 2156-8456. (IF-0.43) [Int.] [Citations-4] [798 downloads]
- XIX. Sambit Mukherjee, Dev Pratim Khanna and **Sabyasachi Chatterjee** (2013). Study of Lead Resistant Microorganism and Plant Interaction. *Annals of Plant Science*. 2(10):420-434. [ISSN: 2287-688X] [Nat.] [100 downloads]
- XX. **Sabyasachi Chatterjee**, Juthika Das, Saheli Chatterjee, Pratiti Choudhuri, Agniswar sarkar (2014). Isolation, Characterization and Protein Profiling Of Lead Resistant Bacteria. *British Journal of Microbiology Research*. 4 (1):112-127. (ISSN: 2231-0886) [Int.] [cited by 4]
- XXI. Saheli Chatterjee, **Sabyasachi Chatterjee**, KK Dey and Sikha Dutta (2013). Study of Antioxidant Activity and Immune Stimulating Potency of the Ethnomedicinal Plant, *Cassia alata* (L.) Roxb. *Medicinal and Aromatic Plants*. ISSN: 2167-0412, <http://dx.doi.org/10.4172/2167-0412.1000131> [cited by 5] [Int.] [3726 downloads]
- XXII. Sukanya Chattaraj and **Sabyasachi Chatterjee** (2013). SCANNING ELECTRON MICROSCOPIC STUDY OF SUNFLOWER PLANT GROWN IN PRESENCE OF ARSENIC (SHORT COMMUNICATION). *Trends in Life Science*. 2(3):33-36. ISSN: 2319-4731 (p); 2319-5037(e) [Nat.]
- XXIII. Amar Nath Chattopadhyay, Puja Singh, Arpita Dey, Dr. Pranab Roy, **Dr. Sabyasachi Chatterjee**, Dr. Pradipta Saha and Dr. Subhra Kanti Mukhopadhyay (2013). Study of a psychrotolerant amylolytic *Paenibacillus* sp. isolated from Arctic region. *Journal of Microbiology and Biotechnology Research*. 3(4): 24-31. ISSN-2231-3168 [IF-1.4] [Int.] [cited by 1]
- XXIV. **Sabyasachi Chatterjee**, Saheli Chatterjee, Sikha Dutta (2013). *Cassia alata*- an useful antimicrobial agent (Editorial article). *Journal of Medicinal and Aromatic plant Research (OMICS Publishers)*. 2:1. (ISSN-2167-0412) [IF-2.02] [cited by 4]. [Int.]
- XXV. Saheli Chatterjee, **Sabyasachi Chatterjee**, Alope Bhattacharya, Sikha Dutta (2012). ALLELOPATHIC EFFECT OF *CASSIA OCCIDENTALIS* LEAVES ON MUSTARD SEEDS. *Trends in Biotechnology Research*. 1(1):29-35. (ISSN-

- XXVI. Saheli Chatterjee, **Sabyasachi Chatterjee** and Sikha Dutta (2012). An Overview on the Ethnophytopathological Studies of *Cassia alata* - an Important Medicinal Plant and the Effect of VAM on its Growth and Productivity. International Journal of Research in Botany. 2(4):13-19 (ISSN 2319-7854) [cited by 14]. [Int.]
- XXVII. **Sabyasachi Chatterjee**, Narayan Chandra Chatterjee, Sikha Dutta (2012). Bioreduction of chromium (VI) to chromium (III) by a novel yeast strain *Rhodotorula mucilaginosa* (MTCC 9315). African Journal of Biotechnology. 11(83):14920-14929. ISSN 1684-5315 (IF-0.57) [Int.] [H-index 42] [cited by 1] [305 downloads]
- XXVIII. **S.Chatterjee**, S.N.Chatterjee, S.Karmakar (2012). Evaluation of the role of *Cassia occidentalis* extracts as antimicrobial agents. Journal of Pure and Applied Microbiology .6(3):1433-1436. ISSN 0973-7510 (IF-0.65) [Nat.] [H-index 5]
- XXIX. **Chatterjee S**, Mukherjee A, Sarkar A,Roy P (2012).Bioremediation of lead by lead-resistant microorganisms, isolated from industrial sample. Advances in Bioscience and Biotechnology.3:290-295 ISSN Print: 2156-8456. (IF-0.43) [cited by 15]. [Int.] [4081 downloads]
- XXX. **Sabyasachi chatterjee**, Juthika Das, Pranab Roy, Agniswar Sarkar (2012).Isolation and characterization of lead resistant microorganism from Industrial Effluent: (a Bioremediation approach).Journal of Pure and Applied Microbiology.6(1):315-324. ISSN 0973-7510 (IF-0.65) [Nat.] [H-index 5] [Cited by 4]
- XXXI. **Sabyasachi chatterjee**,Debdoot Gupta,Pranab Roy, Narayan Chandra Chatterjee, Sikha Dutta (2011).Study of lead tolerant yeast BUSCY1 (MTCC 9315).African Journal of Microbiology Research. 5(30):5362-5372. ISSN: 1996-0808 (IF-0.5) [cited by 9]. [Int.] [Hindex 11] [161 downloads].
- XXXII. Chakrabarti Jayanta, **Chatterjee Sabyasachi**, Ghosh Sisir, Chatterjee Narayan Chandra, Dutta Sikha (2010).Synergism of VAM and Rhizobium on Production and Metabolism of IAA in Roots and Root Nodules of *Vigna mungo*. Current microbiology. 61(3):203-209.ISSN: 0343- 8651 (Print) 1432-0991 (Online) (IF-1.815) [cited by 4]. [Int.] [H-index 56]
- XXXIII. Saheli Chatterjee, **Sabyasachi Chatterjee**, Sikha Dutta (2010).A survey on VAM association in three different species of Cassia and determination of Antimicrobial property of these phytoextracts. Journal of Medicinal Plant Research. 4(4): 286-292. ISSN: 1996-0875 (IF-0.5) [cited by 12]. [Int.] [H-index 9]

BOOK CHAPTER

- I. Sabyasachi Chatterjee, Narayan Chandra Chatterjee, Sikha Dutta (2013). "Bioremediation of Heavy Metal Pollution from Industrial Waste Water by Microorganisms". Perspectives in Animal Ecology and Reproduction. Volume: 9 [Book chapter 2]. Pp: 25-51. (ISBN-978-81-7035-829-9).
- II. Kaniz Wahida Sultana, Sabyasachi Chatterjee, Anindita Roy and Indrani Chandra (2017). A short review on Biochemistry of *Aloe Vera*. Biochemistry and Therapeutic uses of Medicinal Plants. Pp:55-59. (ISBN-978-93-5056-866-8).
- III. Sumanta Das, Sabyasachi Chatterjee,Indrani Chandra (2017). The importance of Medicinal plants in Drug discovery. Biochemistry and Therapeutic uses of Medicinal Plants. Pp:115-119. (ISBN-978-93-5056-866-8).

RESOURCE PERSON

- a. Acted as Resource person at Ramananda College to deliver a talk on "Funding agency for research proposal: A Guideline" on 26.02.2019.
- b. Acted as Resource person in the Department of Biotechnology, St.Xavier's College to deliver a talk" On "Emerging rise in Multidrug resistance and what next ???" on 27.11.2018.
- c. Acted as a Resource person for demonstration of the practical in the UGC Sponsored 16th Refresher Course in Environmental Science organized by the Academic Staff College of the Burdwan University from 22.8.2009-11.9.2009

MEMBER OF PROFESSIONAL BODIES

- a. Alumni member of the University of Burdwan.
- b. Life member for Association of Microbiologists of India (AMI) since 2007.
- c. Reviewer and Editorial Board member of different National and International Journals.

REFRESHER/ORIENTATION

1. Attended 1st Online Refresher Course in Life Science in UGC, HRDC of Gujarat University from 07.09.2020-20.09.2020.
2. Attended 117th Orientation Course for All subjects in the UGC, HRDC of The Burdwan University from 17.01.2020- 06.02.2020.
3. Attended a Refresher/Orientation Course (Summer School) conducted by UGC Academic Staff College of the Burdwan University titled on "Progress in Modern Science: Theory and Application" from 5th to 25th September, 2013.
4. Acted as a Resource person for demonstration of the practical in the UGC Sponsored 16th Refresher Course in Environmental Science organized by the Academic Staff College of the Burdwan University from 22.8.2009-11.9.2009.

PROJECTS

- I. **A Minor project** (Funded by Ramananda College) titled "Phytoremediation of heavy metal pollution in industrial soil by three different plants *Allium sativum*, *Allium cepa*, *Brassica nigra*" was completed on March,2020 and acted as **PI**.
- II. **A DHESTBT, Govt. of West Bengal** project titled "Cultivation of disease free *Fragaria vesca* through plant tissue culture and study of its bioactive compounds" is ongoing from 2018 and acting as **Co-investigator**.
- III. **A DST (SERC)** project titled "Exploring of Arctic microorganisms for industrial enzymes" completed as a Co-investigator on 27.1.2014 .

PROJECT SUPERVISION

- a. Supervised 32 Post graduate students for their M.Sc projects from the Department of Biotechnology, the University of Burdwan and from other University like Kalyani University, Gurukul from Haridwar etc.
- b. Supervised 6 Post graduate students for their M.Sc projects from the Department of Botany, Bankura University since 2018.

EXAMINATION ASSIGNMENTS

1. Doing Convener ship in UG Microbiology & Biotechnology Practical Examination since 2008.
2. Question setter for UG & PG Biotechnology, Microbiology since 2008.
3. Examiner, Scrutinizer & Reviewer for PG Biotechnology & Microbiology since 2008.
4. One of the members for Board of Moderators in B.Sc Microbiology
5. Question setter for UG Microbiology & PG Botany at Sidhoo Kanhoo Birsha University, Purulia.
6. Question setter for UG Botany, Biochemistry & Biotechnology at Kaji Nazrul University
7. One of the members for Undergraduate Board of Research Studies in Biotechnology at Kaji Nazrul University.

8. One of the members for Undergraduate Board of Research Studies in Microbiology at Bankura University.
9. One of the members for Postgraduate Board of Research Studies in Botany at Bankura University.
10. Acted as invigilator in Departmental Examination, Staff recruitment examination and different examinations like NET, SET, Ph.D., M.Phil, SSC, Group D examination etc.

PERSONAL DETAILS

Date of Birth : 22.12.1976

Marital Status : Married

Nationality : Indian

Current Status : Assistant Professor of Botany, Ramananda College, Bishnupur,
Bankura-722122

Permanent Address : Nivedita Pally, Police Line (P.O-Sri Pally), District-Burdwan Pin-713103,
West Bengal, India.

Present Address : Godhuli Apartment, Flat-4/2, AE-1, Rabindra Pally, Prafullakanan,
Kolkata, Pin-700101, West Bengal, India.