### **Assistant Professor of Botany**

M.U.C. Women's College, Burdwan – 713104, West Bengal, India

Permanent Address: 11 Golahat road, P.O. Sreepally, Dist. Burdwan, Pin 713103,

India

E-mail: ibrrrm@gmail.com



# **ACADEMIC QUALIFICATION**

### 1. Educational Qualification:

• Ph.D. (2014) Botany

From B.U. on the topic "Studies on certain Pharmacognostic aspects of Nyctanthes arbor-tristis Linn.

• M.Sc. (1998) Botany

From B.U.; 72.75% (Spl. Paper: Microbiology)

• B.Sc. (Hons.) Botany

Burdwan Raj College, under B.U.; (1996) – 66.5%

2. National Tests Qualified:

GATE UGC-CSIR NET

(2000) 84.21(Percentile Score) (2000 December) LS.

(2001 July) UGC-CSIR JRF

# ACADEMIC ACHIEVEMENTS

#### 3. Awards/ Achievements:

- 1. Obtained National Scholarship of Government of India in the Academic Session 1996-1998
- 2. Stood 1st class 2nd at B.Sc. (Hons.) level under B.U.
- 3. Stood 1st class 1st (University Gold medal recipient) at M.Sc. level under B.U.
- 4. 1st rank holder in merit panel of West Bengal College Service Commission, 2015
- 5. Placed in 2nd position in poster presentation of the paper entitled "Phytochemical investigation and antimicrobial activity of leaf extract of *Nyctanthes arbor-tristis* L." in the National seminar organized by Department of Biotechnology, Burdwan University, 2015.

### **ACADEMIC EXPERIENCE**

### 4. Present Occupation:

Working as Assistant Professor of Botany at M.U.C. Women's college since 03.01.2017 till date

#### **5. Teaching Experience:**

Worked as Assistant Professor of Botany at Raja Rammohun Roy Mahavidyalaya, Hooghly from 01.02.2007 to 02.01.2017

### **Assistant Professor of Botany**

M.U.C. Women's College, Burdwan – 713104, West Bengal, India

Permanent Address: 11 Golahat road, P.O. Sreepally, Dist. Burdwan, Pin 713103,

India

E-mail: ibrrrm@gmail.com



### TEACHING MODULES

### 6. B.U. B.Sc. Botany

NEP	Odd Sem.  CC_BOTN1011_Plant Diversity & Evolution: Unit 3-4; SEC_BOTN1051_Biofertilizer: Unit 3	Even Sem.  CC_BOTN2011_Biomolecules & Cell Biology: Unit 3-4; SEC_BOTN2051_Organic Cultivation And Protected Agriculture: Unit 1
CBCS	Odd Sem.  CCI_Microbiology & Phycology: Unit 4-7; CCVII_Economic Botany: Unit 3, 5, 8, 10; SECI_Agricultural Botany: Unit 1;	Even Sem.  CCIV_Anatomy: Unit 1-6;  CCX_Mol Biol: Unit 1-2; CCIX_  Biomolecules & Cell Biol.: Unit 1, 6;  SECII_Herbal Technology: Unit 3
	CCXI_Plant Physiology: Unit 1; CCXII_Plant Metabolism; Unit 6; DSEI_Reproductive Biology: Unit 5-6.	CCXIII_Genetics & Plant Breeding: Unit 5; CCXIV_Plant Biotechnol: Unit 1; DSEIII_Immunology: Unit 1-2.

# PROFESSIONAL EXPERIENCE

# 7. Professional Experience in the College:

# • Departmental In-charge

2024 onwards

# Governing Body

Member 2023 onwards

### • Finance Committee

Member 2023 onwards

#### • Convenor:

Internal Assessment Exam. (2017-18), (Jt. Con.) Data Committee (2018-19), Seminar Committee (2019-2020), Vocational Course (2021-22), Grievance Redressal Cell (2019-23), Routine Committee (2022-23), Anti-Ragging Squad (2022-23), Anti-Ragging Cell (2023-24), Cultural Committee (2023-24)

#### Assistant-Convener:

Cultural Committee (2018-23), Canteen Committee (2019-20), Envs. Exam. Incharge (2019-20); Routine Committee (2019-22), Seminar, Conference & Day Observation (2022-24), Hostel Committee (2023-24)

### PROFESSIONAL TRAININGS

#### 8. Participation in Faculty Development Programme:

- 1. Participation in the Refresher Course in Research Methods and Online Pedagogy organized by HRDC, B.U. from 31st January to 13th February, 2023
- 2. Participated in Refresher Course in Recent advancement in Biological Sciences organized by HRDC, B.U. from 16th August to 29th August, 2019
- 3. Participation in the 83rd Orientation Programme Programme, organized by Academic Staff College, B.U. from 10th Jan–6th February, 2012.
- 4. Participation in the 4th Refresher Course in Life Sciencesorganized by Academic Staff College, B.U. from 3<sup>rd</sup> to 23<sup>rd</sup> November, 2012.

### **Assistant Professor of Botany**

M.U.C. Women's College, Burdwan – 713104, West Bengal, India

Permanent Address: 11 Golahat road, P.O. Sreepally, Dist. Burdwan, Pin 713103,

India

E-mail: ibrrrm@gmail.com



### RESEARCH EXPERIENCE

#### 9. Area of research interests:

Pharmacognosy, Phytochemistry

# 10. Completed Research Project :

**UGC sponsored minor project** entitled "Studies on Certain pharmacognostic and phytochemical aspects of some medicinal plants of Leguminosae with special reference to their fattyacids and epicuticular wax constituents".

[UGC- MRP grant no. F.No.PSW-024/14-15(ERO)]

### 11. Researcher identity:

**Vidwan ID:** 540849

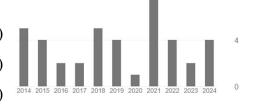
Google Scholar ID: zB8D4vkAAAAJ

12. Research Indices:

**Total citations:** 40 (Google Scholar)

H-index: 03 (Google Scholar)

i10-index: 02 (Google Scholar)



### RESEARCH PROMOTION

#### 13. Seminar/ Conference/ Webinar Conducted:

Convenor of a Four Days International Conference (On-line) entitled "Engineering Biotic Interactions in the Light of Social Applicability" conducted on 07-10.08.2020 at Department of Botany, M.U.C. Women's College.

### RESEARCH TRAININGS

# 14. Work shop/ Training Attended:

- 1. Attended Workshop on "Preservation methods along with the practical techniques in Botany" held at Botany Department of Burdwan University from 3rd 7th March, 2014.
- 2. Attended National Workshop on Scanning Electron Microscopy held at USIC, Burdwan University from 1st to 4th February, 2005.
- 3. Attended Training Programme on "Cultivation and Commercialization of medicinal and Aromatic Crops" held at Burdwan University on 3rd & 4th September, 2005.

### **Assistant Professor of Botany**

M.U.C. Women's College, Burdwan – 713104, West Bengal, India

Permanent Address: 11 Golahat road, P.O. Sreepally, Dist. Burdwan, Pin 713103,

India

E-mail: ibrrrm@gmail.com



### RESEARCH PUBLICATIONS

## 15. Book Editor:

1. Partha Sarathi Mukherjee, **Irani Biswas** and Prasanta Mallick (eds) (2012). Biodiversity The Natural Wonder: Issues and Concern (Proceedings of the National Seminar). Levant Books (Publisher), Kolkata. **ISBN: 978-93-80663-61-6**.

# 16. Paper Published in Journals:

- 1. Chattopadhyay, P., **Biswas, I.**, and Banerjee, G. (2024). Analysing the Metagenomic Dynamics of Soil Microbiota Affected by Tea Pruning and Skiffing Methods in Tea Plantations of Dibrugarh, Assam, India. *Indian Journal of Microbiology*, https://doi.org/10.1007/s12088-024-01382-8 [Impact Factor: 2.8]
- 2. Biswas, I.\*, Mukherjee, A and Laskar, S. (2017). Nutritional attributes and Bioprospects of leaves, fruits and seeds of *Nyctanthes arbor-tristis* L. *International Journal of Ecology and Environmental Sciences*, 43(3):251-261. ISSN No. -2320-5199. (Online). [H-index 18].
- 3. **Biswas, I.\***, Laskar,S. and Mukherjee, A. (2017). Determination of n-alkane constituents in the epicuticular wax of leaves and young pods of *Cassia alata* often infested by larvae of *Catopsila pyranthe. World Journal of Pharmaceutical Research*, 6(6): 1300-1306. ISSN No. 77-7105. [SJIF Impact facto-5.999, Global Impact Factor-0.997; H-index: 22.
- **4. Biswas I.\*,** Seth, P. and Laskar S. (2017). Exploration of therapeutic potential of anthraquinones and flavonoids isolated from different species of *Cassia*: A promising journey from ethnomedicine to biomedicine. *Indian Journal of Scientific Research*, 13(1): 01-08. ISSN No. 0976-287
- 5. Ukil, S., **Biswas, I.** and Laskar, S. (2015). Variation of n-alkanes and micromorphological pattern of the epicuticular wax in different plant organs of *Crotalaria pallida*. *World Journal of Pharmaceutical Research*, **4(11)**: 1593-1608. [ISSN: 2277-7105]. **SJIF impact factor: 5.990**, GIF: 0.997; H-index: 22.
- 6. **Biswas, I.\***, Ukil, S. and Mukherjee, A. (2014). Determination of n-alkane constituents and their phenological variation in the epicuticular wax of mature leaves of *Nyctanthes arbor-tristis* L. *Natural Product Research*, 28(5): 330-332. [ISSN: 1478 6419 (print); 1478 6427 (online)]. **Impact factor: 2.1. (As Corresponding author).**
- 7. Bandyopadhyay, D., **Biswas, I.**, Laskar, S. and Basak, B. (2013). Evaluation of single electron transfer reduction products of 3-oxoindoles as antibacterial agents. *International Journal of Pharmacy and Pharmaceutical Sciences*, **5(3)**: 447 450. **[ISSN: 0975 1491]. Impact** factor: 1.1.
- 8. Biswas, I. and Mukherjee, A. (2011). Pharmacognostic studies on the leaf of *Nyctanthes arbortristis*. *Acta Botanica Hungarica*, 53(3-4): 225-234. [ISSN 0236 6495] [Hindex-10].

### **Assistant Professor of Botany**

M.U.C. Women's College, Burdwan – 713104, West Bengal, India **Permanent Address:** 11 Golahat road, P.O. Sreepally, Dist. Burdwan, Pin 713103,

India

E-mail: ibrrrm@gmail.com



### RESEARCH PUBLICATIONS

- 10. **Biswas, I.** and Mukherjee, A. (2011). Micromorphology of leaf of *Nyctanthes arbortristis*. *Indian Journal of Applied and Pure Biology*, **26(2):**247 250 [ISSN: 0970–2091].
- 11. Banerjee, G., **Biswas, I.** and Mukherjee, A. (2006). Therapeutic value of certain chemical substances presents in *Trianthema portulacastrum* L. **Indian Journal of Applied and Pure Biology, 21(1):** 19 22. [ISSN: 0970 2091].
- **12. Biswas, I.** and Mukherjee, A. (2004). Leaf form and venation pattern of Nyctanthes arbor-tristis L. **Flora and Fauna**, **10(2)**: 125 127. [ISSN: 0971 6920]
- Das, D., Bhattacharjee, A., **Biswas**, I. and Mukherjee, A. (2004). Foliar characteristics of some medicinal plants of Zingiberaceae, *Phytomorphology*, **54(3 &4)**: 291 –302. [ISSN: 0031–9449].

#### 17. Book Chapter Published:

1. Bandopadhyay, B., **Biswas, I.**, Laslar, S., and Basak, B. (2021). An evaluation of single electron transfer reduction products of 3-Oxoondoles as antibacterial agents in Chaitanya M.V.N.L. (Ed) "Technological Innovation in Pharmaceutical Research" Vol. 8. B.P. International, United Kingdom. pp 99-108. ISBN 978-93-91473-52-5.

# 18. Paper Presentation:

- 1. **Oral presentation of the paper entitled** "Pharmacognostic characterization and phytochemical investigation of three common weed species of *Cassia* having therapeutic properties" in the National Seminar organised by Department of Botany, Ramananda Centenary College, Purulia on the topic "A Glimpse of Plant Science" on 17<sup>th</sup> March, **2023**.
- 2. Poster presentation of the paper entitled "Biochemical and ecological impact on diversity of micromorphological patterns of certain plant cuticular surfaces: An overview" in the International seminar organized by the Department of Botany, Vivekananda Mahavidyalaya, Purba Bardhaman on the topic "Life and Environment: Issues and Concern" on 9th March, 2023.
- Oral presentation of the paper entitled "Determination of n-alkane constituents in the epicuticular wax of leaf and young pods of three species of *Cassia* often victimized by insect herbivory" in the **National seminar** organized by Botany Department of Sonamukhi college on the topic "Plants, The Natural Wonder: Issues and Concern" on 4th-5th October, 2016.
- 4. Oral presentation of the paper entitled "Therapeutic potential of anthraquinones and flavonoids isolated from different species of Cassia: A promising journey from ethnomedicine to biomedicine" in the National seminar organized by Botany Department of Visva- Bharati, Shantiniketan on the topic "Plant and Microbe Diversity and Utilization' on 19th -20th March, 2016.
- 5. **Poster presentation** of the paper entitled "Phytochemical investigation and antimicrobial activity of leaf extract of *Nyctanthes arbor-tristis* L. in the **National seminar** organized by Department of Biotechnology, Burdwan University on the topic "Biotechnology in sustainable development" on 13th –14th March, **2015.** [placed in 2nd position].

### **Assistant Professor of Botany**

M.U.C. Women's College, Burdwan - 713104, West Bengal, India

Permanent Address: 11 Golahat road, P.O. Sreepally, Dist. Burdwan, Pin 713103,

India

E-mail: ibrrrm@gmail.com



### RESEARCH PUBLICATIONS

- **6. Oral presentation of the paper entitled** "N-alkane constituents from surface wax of leaves, flowers and seeds of *Crotalaria pallida* serving as probable cues for host plant recognition" in the **National seminar** on the topic "Advanced Spectroscopy, Theoretical Chemistry, Synthesis, Reactivity and Structural Evaluation" held at Chemistry Department, Burdwan University on 19th –21st February, 2015.
- 7. Oral presentation of the paper entitled "Role of n-alkanes in leaf epicuticular wax of *Nyctanthes arbor-tristis* L. in understanding phonological variation and leaf micromorphological pattern" in the **National seminar** organized by Department of Botany, Burdwan University on the topic "Contemporary Progress in Plant Sciences" on 20th–21st March, 2015.
- **8. Oral presentation** of the paper entitled "Nutritional attributes and bioprospects of leaves, fruits and seeds of *Nyctanthes arbor-tristis* L." in the **International "Tropical Ecology Congress 2014"** held at JNU, New Delhi on 10th –12th December, **2014**.
- **9. Oral presentation** of the paper entitled "Protective effect of *Nyctanthes arbor-tristis* leaf on CCl4 induced hepatotoxicity in male albino rats" at UGC sponsored **National Level Seminar** on the topic "Botanical Resources and human welfare" conducted by the Department of Botany, Ramkrishna Mission, Vivekananda Centenary College, Rahara on 6th September, **2013**.
- **10. Oral Presentation in the National Conference** on "Current Researches in Plants and Microbial Sciences" held at Burdwan University on 26-27<sup>th</sup> November, **2005** on the topic "Foliar Anatomy of *Nyctanthes arbor- tristis*".
- 11. Scientific Abstract entitled "Hepatoprotective action of leaf of *Nyctanthes arbor-tristis* L." as **poster presentation** in the Souvenir of the **International Conference** on Biosciences, Biotechnology and Biodiversity Analysis" held at Pune on 8th-10<sup>th</sup> August, **2005**.
- **12. Oral Presentation in the National Conference-Cum-Workshop on** "Scientific growing, Socio-Economic Value and Proper Utilization of Medicinal and Aromatic Plant for the Welfare of the Rural People" held at Bejoynarayan Mahavidyalaya, Itachuna, Hooghly on 25-27 February, **2005** on the topic "Micro- and Internal Morphology of leaves of *Naringi crenulata* (Roxb.) Nicolson".
- **13. Oral Presentation of the paper entitled** "Antibacterial activity of *Nyctanthes arbor-tristis* L.: Evaluation of its leaves and fruits".in the National Seminar on "Medicinal Plants, Plant Products & Patents" held at Kolkata on October, **2004**.

### INDUSTRIAL EXPERIENCE

#### 19. Scientific Advisor:

PritMit Biotech Private Limited since 2022

Website: <a href="www.pritmit.com">www.pritmit.com</a>
CIN: U15549WB2022PTC253850

**Start-up India Certificate No.: DIPP135803** 

Registered Office: Gurupally (Dakshin), Santiniketan 731235, Birbhum, WB, India



#### **Assistant Professor of Botany**

M.U.C. Women's College, Burdwan – 713104, West Bengal, India

Permanent Address: 11 Golahat road, P.O. Sreepally, Dist. Burdwan, Pin 713103,

India

E-mail: ibrrrm@gmail.com



# CO-CURRICULAR ACTIVITIES

#### 20. Co-curricular activities:

- a. Placed in first position in **Bengali recitation** competition organised by Students' Health Home regional clinic, Burdwan in the year 1986.
- b. Placed in third position in **Bengali recitation** competition organised by Rittik Youth Coir in the district level cultural competition, 1987.
- c. Awarded **Sangeet Bhusan Diploma** in the year 1990 by Pracheen Kala Kendra, Chandigarh in Nazrul Geeti (Vocal).
- d. Awarded **Sangeet Visharad Pratham Khand Diploma** in 1991 by Pracheen Kala Kendra, Chandigarh in Nazrul Geeti (Vocal).
- e. Consistently involved in different cultural activities of college as Convener of cultural committee, also acted as cultural programme organizer and performer during NAAC peer team visit on March 2007; often took the responsibility for judgement in recital and vocal music competitions annually organized by the college.

# RECOGNITION FOR CO-CURRICULAR ACTIVITIES

# 21. Judge/ Special Guest:

- 1. Acted as judge in Inter-school Debate Competition organised by East-West Model School, Burdwan on 29.09.2022
- 2. Invited as Special Guest at Burdwan Zonal Convocation 2024 at Sanskriti Lok Mancha, Purba Bardhaman, organised by Surobharati Sanjeet Kalakendra on 16.07.2024.

Date: 01.01.25 Place: Burdwan

Inami Biswas