



- 1. Name (in full)** : **Dr. IRANI BISWAS**
- 2. Father's Name** : Late Kanai Lal Biswas
- 3. Address for Communication** : 11, Golahat road,
P.O. Sreepally,
Dist. Burdwan, Pin – 713103.
E-mail: ibrirm@gmail.com
- 4. Permanent Address** : -----Do-----
- 5. Nationality** : Indian
- 6. Educational Qualification** : (i) **Ph.D. (2014)** obtained from B.U. on the topic “**Studies on certain Pharmacognostic aspects of *Nyctanthes arbor-tristis* Linn.**
(ii) **M.Sc. (1998)** – 72.75% (Spl. Paper – Microbiology)
(iii) **B.Sc. (Hons.) (1996)** – 66.5%
- 7. National Tests Qualified** : (i) **GATE (2000)** –84.21(Percentile Score)
(ii) **NET (LS)** – December 2000
(iii) **NET (CSIR)** –July 2001
- 8. Academic awards/ Remarkable Achievements:**
- (i) Obtained **National Scholarship** of Government of India in the Academic Session 1996-1998
 - (ii) Stood **Ist class 2nd** at B.Sc (Hons.) level under B.U.
 - (iii) Stood **Ist class Ist (University Gold medal recipient)** at M.Sc. level under B.U.
 - (iv) **1st rank holder in merit panel of West Bengal College Service Commission, 2015**
 - (v) **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.**
- 9. Present Occupation** : Working as Assistant Professor of Botany at M.U.C. Women's college since 03.01.2017
- 10. Teaching Experience** : Worked as Assistant Professor of Botany at Raja Rammohun Roy Mahavidyalaya from 01.02. 2007 till 02.01.2017.15 years as Assistant Professor in Botany
- 11. Area of research interests** : Pharmacognosy, Phytochemistry
- 12. 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)]
- 13. Participation in Faculty Development Programme** : (i) Participation in the **Refresher Course in Research Methods and Online Pedagogy** organized by HRDC, B.U. from 31st January to 13th February, 2023

- (ii) Participated in **Refresher Course in Recent advancement in Biological Sciences** organized by HRDC, B.U. from 16th August to 29th August, 2019
- (iii) Participation in the **83rd Orientation Programme Programme**, organized by Academic Staff College, B.U. from 10th Jan– 6th February, **2012**.
- (iv) Participation in the **4th Refresher Course in Life Sciences** organized by Academic Staff College, B.U. from 3rd to 23rd November, **2012**.

14. List of publications:

a) As edited Books:

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**.

b) Publications in Journals:

1. **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**].
2. **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 factor-5.999, Global Impact Factor-0.997; H-index: 22**].
3. **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
4. 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**].
5. **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)**].
6. 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**].
7. **Biswas, I.** and Mukherjee, A. (2011). Pharmacognostic studies on the leaf of *Nyctanthes arbor-tristis*. *Acta Botanica Hungarica*, 53(3-4): 225-234. [ISSN : 0236 – 6495]. [**H-index-10**].
8. **Biswas, I.** and Mukherjee, A. (2011). Micromorphology of leaf of *Nyctanthes arbor-tristis*. *Indian Journal of Applied and Pure Biology*, 26(2):247 – 250 [ISSN: 0970–2091].
9. Banerjee, G., **Biswas, I.** and Mukherjee, A. (2006). Therapeutic value of certain chemical substances present in *Trianthema portulacastrum* L. *Indian Journal of Applied and Pure Biology*, 21(1): 19 – 22. [ISSN: 0970 – 2091].
10. **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].
11. 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].

c) Book Chapters in Edited Book:

1. Bandopadhyay, B., **Biswas, I.**, Laslar, S., and Basak, B. (2021). An evaluation of single electron transfer reduction products of 3-Oxoindoles 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

15. Citation:

Total No. of Citations: 40

H-index: 03 (Google Scholar)

i10 index: 02 (Google Scholar)

16. Seminar/Symposium/Workshop attended:

I) Seminars attended:

1. **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**.
2. **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**.
3. **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**.
4. **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].
5. **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**.
6. **Oral presentation** of the paper entitled "Role of n-alkanes in leaf epicuticular wax of *Nyctanthes arbor-tristis* L. in understanding phenological 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**.
7. **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**.
8. **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**.
9. **Oral Presentation in the National Conference** on "Current Researches in Plants And Microbial Sciences" held at Burdwan University on 26-27th November, **2005** on the topic "Foliar Anatomy of *Nyctanthes arbor-tristis*".
10. 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-10th August, **2005**.

11. 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 .**

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”.**

II) Workshop/Training programme 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**.**

17. Industrial Experience:

Acting as Scientific Advisor at PritMit Biotech Pvt. Ltd., Santiniketan since 2022.

18. Other Academic Activities:

- I) Acknowledged as reviewer for Manuscript ID GNPL-2016-1918 for Natural Product Research, a Taylor and Francis Journal with impact factor 1.05 on November, 2016.**
- II) Acknowledged as reviewer for the International Journal of Pharma and Biosciences (Manuscript No. 7042); an international journal powered by Scopus of Elsevier) on March, 2015.**
- III) Acknowledged as reviewer for Manuscript ID 6262-BH for the Journal of Serbian Chemical Society (an international Journal) on March, 2015.**
- IV) Acted as Examiner of different Theoretical Examinations of Botany (Both Honours and Pass at undergraduate level) as well as Practical Examinations (as external and internal examiner) under Burdwan University.**

19. 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.