

# Dr. Hemanta Saha (Ph.D.)

## Associate Professor

Department of Botany  
Suri Vidyasagar College  
Suri, Birbhum, West Bengal, India- 731101



Baliguni, Uchkaran, Nanoor,  
Birbhum, West Bengal, 731301  
[hemantasaha2010@gmail.com](mailto:hemantasaha2010@gmail.com)  
**Mob: 7001451410**

### ✚ Academic Qualification:

- 2019 Ph.D. in Botany, Visva-Bharati
- 2006 WBCSC SLET
- 2002 M.Sc. in Botany, Visva-Bharati
- 2000 B.Sc. in Botany, Visva-Bharati

### ✚ Area of Specialization: Microbiology ( in PG Level)

### ✚ Area of Research Work: Pollination Biology

### ✚ Teaching Experience: 20 Years

- 28.8.2004-28.4.2005: Assistant Teacher (Kirnahar Shib Chandra High School) (Deputation)
- 29.4.2005-28.8.2008 : Assistant Teacher ( Gokulbati N B S Vidyapith, Labpur, Birbhum)
- 2008-22: Dept. of Botany at Suri Vidyasagar College as Assistant Professor (WBCSC)
- 2022- till day: Dept. of Botany at Suri Vidyasagar College as Associate Professor (WBCSC)

### ✚ Administrative Positions:

- **Programme Officer**, National Service Scheme ( NSS) (2008-2013).
- **Care Taker Officer** (NCC, 15 Bengal BN) Suri Vidyasagar College (2013-2015)
- **Associate NCC Officer (ANO)**, NCC, SVC (15 Bengal BN, under NCC Gp HQ Burdwan (2015 –Till date )
- **Head of The Department**, Department of Botany, Suri Vidyasagar College, Suri, Birbhum (2018-20).
- **Assistant Co-Ordinator**, Netaji Subhas Open University of Suri Vidyasagar College Study Centre (C-03). (2019-2024).
- **Co-Ordinator**, Netaji Subhas Open University of Suri Vidyasagar College Study Centre (C-03). (2024- till day).
- **Member Governing Body** Rajnagar Mahavidyalaya, Nominee of West Bengal State Council of Higher Education, Govt. of West Bengal (2018- till day).
- **Member Governing Body** Suri Vidyasagar College, Nominee of Teacher Representative (2024- till day)
- **Member** of UGBS in Defence Studies , Burdwan University (2021- till day)
- **Nodal officer** Kanahree Prakalpo (2018 – till day).
- **Nodal officer** Students credits Cards ( 2022- till day)
- **Assistant Secretary of Teacher Council**, Suri Vidyasagar College (2014-2015)

- **Secretary of Teacher Council**, Suri Vidyasagar College (2015-2016)
- **Joint Convener** Development Committee, GB Suri Vidyasagar College (2019- 2024)
- **Convener** practical CBCS (Science) 2022-2023
- **Member**, Green Energy & Environment Audit Committee, Suri Vidyasagar College, Suri, Birbhum (2020 to till date).
- **Convener**, Purchase Committee, Suri Vidyasagar College, Suri, Birbhum (2024-).
- **Member of** Laboratory Equipments (from 2019), Purchase Committee(from 2019),, S & S Welfare committee (from 2019), Admission committee(from 2019),, Hostel Subcommittee (from 2019), , Development Committee(from 2019), Finance Committee (from 2024-) Suri Vidyasagar College.

### ✚ **Extension and Dissemination activities:**

- Judge of the district level science exhibition for school students on 31.08.2010. (D.I. of School, Birbhum).
- Judge of the district level science exhibition for school students on 09.09.2013. (D.I. of School, Birbhum).
- Judge of the district level science exhibition for school students on 12.08.2015 (D.I. of School, Birbhum).
- Member of the Appointment Sub Committee for the selection of Guest Lecturers of the Suri Vidyasagar College (Botany) on 07.08.2015.
- Judge on Municipal Level Science Fair on 20<sup>th</sup> September 2019 (Youth Service & Sports Dept, Govt. of west Bengal).
- Associated with Professional Organization: (LIFE MEMBER) : Indian Aerobiological Society & Indian Science Congress .

### ✚ **Academic Recognitions:**

- **Joint Convener** One day **International Seminar** on “Emerging Trends in Biological Sciences” on 8th November, 2022 organized by Department of Botany, Suri Vidyasagar College, Suri,
- **Examination related engagements** (Paper setter, Examiner, Scrutineer) with The University of Burdwan, Kazi Nazrul University, Visva-Bharati, Netaji Subhas Open University.
- Delivered **special lecture** on NSS on 06.03.2019 (NSS special camp) at Rajnagar Mahavidyalaya.
- **Class taken as Counsellor** of Netaji Subhas Open University on BDP course.

### ✚ **Publications:** *Research articles published in International Journals*

#### ❖ **List of Publications: 15**

- **Saha, H.**, Pollination And Flower- Visitors Interaction Of *Cocos Nucifera* L International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 12, Issue 3, March-2024, Available online at: [www.ijaresm.com](http://www.ijaresm.com).

- **Saha, H.**, Studies on *In vitro* Pollen Germination and Tube Development of *Lens culinaris* Medik Volume 15; Issue 01 (Jan–Feb 2024); pp 278–281 Centre for Advanced Research in Agricultural Sciences Research Journal of Agricultural Science. ISSN: 0976-1675 (P) ISSN: 2249-4538 (E).
- Paul, A., **Saha, H.**, Malakar, C. and Mal, K. (2023). *In vitro* generation of pharmaceutically important medicinal plants using Silver Nanoparticles: A concise Review *Eco. Env. & Cons.* 29 (August Suppl. Issue) : 2023; pp. (S146-S153) (Received 27 February, 2023; Accepted 23 April, 2023) ISSN 0971–765X
- Das, D., **Saha, H.** and Malakar, C. Conjoining Nanoparticles and Provisional Medicines in Ayurveda *Indian Journal of Natural Sciences Vol.14 / Issue 81 / D* Received: 19 July 2023ec / 2023 Revised: 21 Sep 2023 Accepted: 06 Nov 2023 ISSN: 0976 – 0997
- Das, D., **Saha, H.** and Malakar, C. Unveiling Susruta's Legacy: Ancient Anatomy and the Concept of Sira *International Journal of Zoological Investigations Vol. 9, No. 2, 512-515 (2023)* ISSN: 2454-3055.
- Paul, A., Chatterjee, S., Malakar, C. and **Saha, H.** (2023). Role of Plants for Evaluation of Air Pollution Tolerance Index on the Basis of Some Biochemical Parameters: A Concise Review, *Ecology, Environment and Conservation*, 29: S27-S30. [ISSN: 0971–765X, DOI: <http://doi.org/10.53550/EEC.2023.v29i03s.006>; Peer-Reviewed; **UGC-CARE** listed (Group-II): Scopus H index – 15, NAAS Rating-5.41, **Web of Science Journal**]
- **Saha, H.**, Chatterjee, S. and Paul, A. (2023). Role of pollinators in plant reproduction and food security: A concise review, *Research Journal of Agricultural Sciences*, 14(1): 72-79. [P-ISSN: 0976-1675, E-ISSN: 2249-4538, Peer-Reviewed; **UGC-CARE** listed (Group-I) & Indexed Journal]
- **Saha, H.**, Paul, A., Biswas, D. and Malakar, C. (2022). An overview on bio-pollinators in present scenario, *International Journal of Entomology Research*, 7(12): 97-100. [ISSN: 2455-4758, Peer-Reviewed; **UGC-CARE** listed (Group-II): **Web of Science Journal**]
- **Saha, H.**, Paul, A. and Malakar, C. (2022). Entomophilic pollination of *Foeniculum vulgare* Gaertn, *International Journal of Entomology Research*, 7(10): 79-81. [ISSN: 2455-4758, Peer-Reviewed; **UGC-CARE** listed (Group-II): **Web of Science Journal**].
- **Saha, H.**, Studies on Esterase and Peroxidase activity of *Lens culinaris* Medik. in relation to Stigma Receptivity. Page-1-5. July 2020, Volume 7, Issue 7 Journal of Emerging Technologies and Innovative Research (JETIR) [www.jetir.org](http://www.jetir.org)(ISSN-2349-5162)
- **Saha, H.**, Sen, U.K., Das, D., Malakar, C. and Biswas, D. A review of Combining Ayurvedic Therapy with Nanoparticles and Temporary Drugs. Page 592-595. September 2019, Volume 6, Issue 3 International Journal of Research and Analytical Reviews (IJRAR) [www.ijrar.org](http://www.ijrar.org)(E-ISSN 2348-1269, P- ISSN 2349-5138)

- **Saha, H.**, Floral Biology And Pollination of *Vigna Catjang* Endl (Volume 7, Issue 3 September 2019 | Page 116-121. ISSN: 2320-2882, International Journal of Creative Research Thoughts (IJCRT) www.ijcrt.org. Peer Review
- **Saha, H.**, Mondal, S. and Mandal, S. 2016. Studies on *In Vitro* Pollen Germination And Tube Development Of *Borassus Flabellifer* L. International Journal of Recent Scientific Research. Vol. 7, Issue, 6, pp. 11985-11989, ISSN: 0976-3031.
- **Saha, H.**, Mondal S and Mandal S . 2017. Flower-Visitors Interaction, Pollen Dispersal And Pollination of *Borassus Flabellifer* L. International Journal of Development Research. Vol. 07, Issue, 01, pp.10919-10923,ISSN: 2230-9926.

❖ **Seminar / Conference: 16**

- Kundu S, **Saha, H.** and Chattaopadhyaya K K. 2008. Effect of Climatic Changes on Liberation of Airborne Pollen Grains which causes Health Hazards among the people of Birbhum, “Global Warming and Climate Change: Issues and Challenges in 21<sup>st</sup> Century India” IQAC, Suri Vidyasagar College (in collaboration with Paschimbanga Vigyan Mancha, Birbhum). 23<sup>rd</sup> and 24<sup>th</sup> November, 2008.
- **Saha, H.**, Mondal, S. and Mandal, S. 2012. Pollen release and dispersal of two members of Asteraceae, Impact of Airborne Microbes. Indian Aerobiological Society & MAEER’s Arts, Commerce & Science College, Pune and MAEER’s Maharashtra Institute of Pharmacy, Pune 13<sup>th</sup>–15<sup>th</sup> December, 2012.
- **Saha, H.**, Mondal, S. and Mandal, S. 2014. Pollination biology of *Borassus flabellifer* L. International Symposium on Conservation and Management of Pollinators for Sustainable Agriculture and Ecosystem Services (ISCMP-2014). V Sivaram Research Foundation 24<sup>th</sup> to 26<sup>th</sup> September, 2014.
- **Saha, H.**, Mondal, S. and Mandal, S. 2014. Flower-visitor interaction with reference to pollen dispersal and pollination of *Sesamum indicum* L. International Conference on Nonlinear and its Applications in Physical and Biological Sciences (CNDAPBS-14), Darjeeling Govt. College in collaboration with Bose Institute & St. Joseph’s College., November 01-03, 2014.
- **Saha, H.**, Mondal, S. and Mandal, S. 2015. Pollen dispersal, flower-visitor interaction and pollination of *Cocos nucifera* L. 18th National Conference on Impact of Aerosols on Health, Heritage and Environment (NCIAHHE-2015), held at Tumkur University, Tumkur, Karnataka, during 28th - 30th September, 2015.
- **Saha, H.**, Mondal, S. and Mandal, S. 2015. Floral biology, flower-visitor interaction and pollination of *Foeniculum vulgare* Gaertn. National Symposium on Bioresources and

Sustainable Development & 2nd National Bioresources and Sustainable Development Summit, held at North-Eastern Hill University, Shillong during 28th -29th October, 2015

- **Saha, H.**, Mondal, S. and Mandal, S. 2016. Studies on *in vitro* pollen germination and tube development of *Trichosanthes anguina* L. National Conference on Harmony with Nature in Context of Resouce Conservation and Climate Change, held at Vinoba Bhave University, Hazaribagh during 24th -24th October,2016.
- **Saha, H.2016.** Sustainability of Agriculture & deforestation in India, UGC National level seminar, Dr. B.N Dutta Smriti Mahavidyalaya, Hatgobindopur, WB, 26-27 Sept 2016.
- **Saha, H.**, Mondal, S. and Mandal, S. 2017. Flower-visitor interaction and pollination of *Benincasa hispida* (Thunb.) Cong. National seminar on Plant and Microbial Resources: Utilization and Conservation, held at the Department of Botany, Visva-Bharati, Santiniketan, during 15th-16th March, 2017.
- **Saha, H.**, Mondal, S. and Mandal, S. 2018. Floral biology and pollen dispersal of *Capsicum annum* L. XX National Conference of Aerobiology held Sant Gadge Baba Amaravati University, Amaravati, during 29th -31st January, 2018.
- **Saha, H.**, Mondal, S. and Mandal, S. 2018. Floral biology and pollination of *Vigna mungo* (L.) Hepper. National seminar on Trends in Contemporary Research in Plant Science held at the Department of Botany, Vidyasagar University, Midnapore, during 29th-30th March, 2018.
- **Saha, H.**, Mondal, S. and Mandal, S. 2019. Flower- visitor interaction and pollination of *Luffa acutangula* (L.) Roxb. National seminar on Current Trends and Future Prospects In Plant Science Research, CAS, Dept. of Botany, Banaras Hindu University, February 1-3, 2019.
- **Saha, H.**, Mondal, S. and Mandal, S. 2019 Floral biology and pollination of *Nigella sativa* L. 4th Regional Science & Technology Congress (Western Region), 2019 [4 th RSTC (WR), 2019] The University of Burdwan and Dept.of Science & Technology and Biotechnology, December 09-10, 2019.
- **Saha, H.**,2022. Sustainable Development and Pollination. International Seminar on Emerging Trends in Biological Science. Dept. of Botany, Suri Vidyasagar College, Date- 08 November 2022.
- **Saha, H.**,2023. Floral Biology and Pollination of *Linum usitatissicum* L5<sup>th</sup> Regional Science and Techonlogy Congress, 2022-23 Bankura University and Department of Science and Technology and biotechnology, Govt. of West Bengal..

- **Saha, H.**, 2023 Sustainable Development and Role of Pollinatorin Pollination. International Conference on Life and Environment on Life and Environment : Issues and Concern, Dept. of Botany, IQAC Vivekananda Mahavidyalaya, Purba Bardhaman 9<sup>th</sup> March 2023.

**❖ Human Resource Development Center (HRDC)/ Academic Staff College Orientation/ Refresher Course/ NEP Course: 06**

| <b>Name of the Course/ Summer School</b>                            | <b>Place</b>   | <b>Duration</b>   | <b>Sponsoring Agency</b>   |
|---|--|---|--|
| OP-76 <sup>th</sup>   | ASC, Burdwan University  | 22 <sup>nd</sup> July 2010 To 18 <sup>th</sup> August 2010            | UGC Sponsored O P Org. by ASC, University of Burdwan                               |
| RC-in Nano Science, Nano Techonology & Application.                 | ASC, Burdwan University.   | 11 <sup>th</sup> June 2014 To 1 <sup>st</sup> July 2014               | UGC Sponsored RC Org. by ASC, University of Burdwan                                |
| RC-Plant Advancement in Biological Sciences.                        | ASC, Burdwan University.   | 16.08.2019 to 29.08. 2019   | UGC Sponsored RC Org. by ASC, University of Burdwan                                |
| Refresher Course ( REF/SD/PT-1-139 ) NCC                            | OTA (Officers Training Academy) , Kamptee, Maharastra,   | 19 July to 07 August 2022   | DG, NCC, under Ministry of Defence, Govt. of India.                                |
| RC-Nano-Science, Nano-Techonology and Applications                  | UGC-HRDC, Burdwan University.  | From 1 <sup>st</sup> December 2022 to 14 <sup>th</sup> December 2022. | UGC Sponsored RC Org. by ASC, University of Burdwan                                |
| Interdisciplinary Refresher Course in Advanced Research Methodology | Teaching Learning Centre , Ramanujan College , University of Delhi Under Aegis of Moe, Pandit Madan Mohon Malaviya Mission on Teachers and Teaching. | 22 September-06 October 2022.   | Teaching Learning Centre , Ramanujan College                                       |
| NEP 2020 Orientation & Sensitization Programme-(Online)             | Malaviya Mission Teacher Training Centre (MMTTC)   | 04 March to 13 March 2024   | Erswhile UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh |

### ❖ **Workshop Demonstration / Participation: 03**

**Attended** Workshop on ‘Wildlife conservation of today’s youth in West Bengal, India, with a focus on Monitor Lizards’; organized by Monitor Lizard Special Group (MLSG) International Union for Conservation of Nature and Natural Resources (IUCN) and Environmental, Agriculture and Education Society (EAES), Bareilly, India; held from 29th July-2nd August, 2019.

**Faculty Development Programme (FDP, Online ) ON DEVELOPMENT OF COURSE FOR SWAYAM (MOOCs) ,** offered by Netaji Subhas Open University collaboration with Commonwealth Education Media Centre for Asia. (Certificate No : 17<sup>th</sup> August to 31<sup>st</sup> August 2021)

### ✚ **Extra-Curricular Activity**

- ✓ Adhoc Adventure Course, at-Jawahar Institute Of Mountaineering & Winter Sports, Pahalgam-J&K. From 8.6.2011 to 17.6.2011. Sponsored by- Ministry of Affairs and Sports, Government of India.& NSS.
- ✓ Training Orientation & Research Center (Sponsored by Deptt. Of Youth Affairs & Sports, Govt. of India) Ramakrishna Mission Ashrama Narendrapur, Kolkata 700 103, West Bengal Orientation course held at this centre from 1<sup>st</sup> March to 6<sup>th</sup> March, 2012.
- ✓ Training of Trainers on Social Harmony, National Unity and Human Rights, Rajiv Gandhi National Institute of Youth Development (RGNIYD) (An Institute of National Importance by an Act of Parliament No.35/2012) Ministry of Affairs and Sports, Government of India Sriperumbudur – 602105, from 27th December2012 to 2nd January 2013.
- ✓ Pre-Commission Cadet Course (PRCN/SD-159) from 14.12.2015 to 12.3.2016 at Officer Training Academy (OTA, NCC) Kamttee, Maharashtra under the Ministry of Defence, Govt. of India.
- ✓ Contingent Leader- Nalanda (Bihar) Trek-2017, from 19 Nov to 28 Nov 2017 Conducted by NCC Gp HQ, Gaya (Bihar) under NCC Dte. Bihar & Jharkhand.

*Dr. Hemanta Saha*  
June, 2024