

Dr. Anirban Paul (Ph.D.)

Assistant Professor & Head

Department of Botany

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✚ Academic Qualification:

- 2018 **Ph.D. in Botany**, Visva-Bharati
- 2009 **M.Sc. in Botany**, Visva-Bharati
- 2007 **B.Sc. in Botany**, Visva-Bharati
- 2015 **UGC-JRF NET**
- 2013 **WBCSC SET**
- 2011 **VBRET & GATE**

✚ Area of Specialization: Cytology, Genetics and Plant Biotechnology

✚ Teaching Experience: 15 Years

- 2009-16: Dept. of Botany at Rampurhat College as Part-Time Teacher (Govt. Approved)
- 2016-24: Dept. of Botany at Suri Vidyasagar College as Assistant Professor (WBCSC)

✚ Awards and Honors:

- **Best research paper** in poster presentation: **International Seminar** on Recent Trends in Life Sciences; organized by Dept. of Botany, SKBU, Purulia and IASR, Kolkata, 2019
- **Best research paper** in poster presentation: **National Seminar** on Sustainable Utilization of Plants and Microbes; organized by Dept. of Botany, Visva-Bharati, Santiniketan, 2019
- **2nd rank** in Botany panel (UR category), West Bengal College Service Commission (1/2015)
- **University merit Scholarships** for achieving **3rd & 2nd rank** with **1st class** marks at B.Sc. & M.Sc. in Visva-Bharati respectively

✚ Administrative Positions:

- **Invited Member** of IQAC extended committee & Career Advancement Scheme (CAS) screening committee, Suri Vidyasagar College, Suri, Birbhum (2023 to till date).
- **Head of The Department**, Department of Botany, Suri Vidyasagar College, Suri, Birbhum (2022 to till date).
- **Coordinator**, One day **International Seminar** on “Emerging Trends in Biological Sciences” on 8th November, 2022 organized by Department of Botany, Suri Vidyasagar College, Suri, Birbhum.
- **Coordinator**, One day **State Level Seminar** on “Women Empowerment in pre & post independent India” on 14th August, 2022 organized by NSS, Suri Vidyasagar College, Suri, Birbhum on the occasion of Azadi ka Amrit Mahotsav Har Ghar Tiranga from 13th to 15th August, 2022.

- **Convenor**, Green Energy & Environment Audit Committee, Suri Vidyasagar College, Suri, Birbhum (2020 to till date).
- **Convenor**, Social & Cultural Committee, Suri Vidyasagar College, Suri, Birbhum (2019-23).
- **Joint Convenor**, Social & Cultural Committee, Suri Vidyasagar College, Suri, Birbhum (2023 to till date).
- **Member** of Academic Advisory Committee (from 2022), Development Committee (from 2019), Career Counselling Committee (from 2019), Research & Publication Committee (from 2019) & Computer Committee (from 2019) Suri Vidyasagar College.
- **External Green Audit Team Members** of Turku Hansda Lapsa Hemram Mahavidyalay Modian, Mallarpur, Birbhum (2018 to till date).

✚ Academic Recognitions:

- **Judge in the “Poster Presentation Session”** of Two days National Seminar on “Cytogenetics, *in vitro* Culture and Phytochemistry of Plants and Microbes for Sustainable Use” on 22th and 23th January, 2022 organized by Department of Botany, Visva-Bharati, Santiniketan and Department of Botany, Raidighi College, Raidighi, South 24 Parganas.
- **Chair Person in the “Poster Presentation Session”** of One day International Seminar on “Emerging Trends in Biological Sciences” on 8th November, 2022 organized by Department of Botany, Suri Vidyasagar College, Suri, Birbhum.
- **Reviewer of ‘South African Journal of Botany’** (Web of Science, Scopus Index & UGC CARE listed).
- **Examination related engagements** (Paper setter, Examiner, Scrutineer) with The University of Burdwan, Bankura University, University of Gour Banga, Kazi Nazrul University, Visva-Bharati, Netaji Subhas Open University.
- **Special Class in the scheme of Faculty Exchange Programme under MoU** at Rampurhat College for the UG Honours Students of Department of Botany, Rampurhat College.
- **Class taken as Counsellor** of Netaji Subhas Open University on BDP course.

✚ Publications: 21 Research articles published in International Journals

- 01 General article published in Regional Journal
- 04 Book chapters published in Edited Books

✚ List of Publications: 26

- Roy, A., Pramanick, D. and **Paul, A.** (2024). Study of Alleopathy in aqueous leaf extract of *Murraya paniculata* (L) Jack, *Azadirachta indica* A. Juss, and *Ocimum sanctum* L., *Journal of Botanical Society of Bengal*, 78(1): 1-10. [ISSN: 0971-2976, Peer-Reviewed; **UGC-CARE** listed (Group-I) & Indexed Journal]
- **Paul, A.**, Saha, H., Malakar, C. and Mal, K. (2023). *In vitro* generation of pharmaceutically important medicinal plants using Silver Nanoparticles: A concise Review, *Ecology, Environment and Conservation*, 29: S146-S153. [ISSN: 0971-765X, DOI: <http://doi.org/10.53550/EEC.2023.v29i04s.024>; Peer-Reviewed; **UGC-CARE** listed (Group-II): Scopus H index – 15, NAAS Rating-5.41, **Web of Science** Journal]

- Mal, K., **Paul, A.** and Malakar, C. (2023). Effects of Light Pollution on Macroscopic Living System: A Concise Review, *International Journal of Zoological Investigations*, 9(2): 396-400. [ISSN: 2454–3055, DOI: <https://doi.org/10.33745/ijzi.2023.v09i02.043>; Peer-Reviewed; **UGC-CARE** listed (Group-II): **Web of Science** Journal]
- **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]
- Ghosh, T., **Paul, A.** and Chatterjee, S. (2022). Influence of Fertilizer on Growth, Yield and Chlorophyll Contents of Ground Nuts, *NeuroQuantology*, 20(11): 1382-1390. [ISSN: 1303-5150, DOI: 10.14704/nq.2022.20.11.NQ66128; Peer-Reviewed; **UGC-CARE** listed (Group-II): **Scopus index** Journal]
- Alam, S., Chatterjee, S and **Paul, A.** (2022). Analysis of Plant-based Registered GI Products of West Bengal, *Research Journal of Agricultural Sciences*, 13(4): 1051-1054. [P-ISSN: 0976-1675, E-ISSN: 2249-4538, Peer-Reviewed; **UGC-CARE** listed (Group-I) & Indexed Journal]
- Ghosh, T., **Paul, A.** and Chatterjee, S. (2022). Biosorption of heavy metal by bacteria for sustainable crop production, *Materials Today: Proceedings*, 51: 465-469. [ISSN: 2214-7853, DOI: 10.1016/j.matpr.2021.05.580; Peer-Reviewed; **UGC-CARE** listed (Group-II): **Scopus index Elsevier** Journal]
- **Paul, A.** (2022). Nanobionics: A modern approach in Botany to develop super power in Plants. In: Chatterjee, A., Mandal, S. (eds.) *Facets of Biosciences*. Blue Rose Publication, Kolkata, India, pp. 6-18. [ISBN: 978-93-5628-086-1]
- **Paul, A.**, Das Bairagya, K., Banerjee, N. and Roy, A. (2022). Estimation of Biological Toxicity by Copper oxychloride on *Pisum sativum* L. and *Vigna radiata* L. *Indian Journal of Agricultural Research*, 56(1): 91-98. [ISSN: 0367-8245, ONLINE ISSN: 0976-058X; DOI: 10.18805/IJARE.A-5606; Peer-Reviewed; **UGC-CARE** listed (Group-II): **Scopus index** Journal]
- **Paul, A.** and Das, A. (2021). COVID-19: A global scientific challenge about human race and activity of National Service Scheme in the pandemic situation. In: Chakrabarti, A.K., Sar, S., Das, G. (eds.) *Roll of NSS in COVID-19 Pandemic in India*. Red'Shine Publication, Gujarat, India, pp. 59-73. [ISBN: 978-93-90937-16-5; ISBN-A: 10.9390937/165; DIP: 18.10.90937/165; DOI: 10.25215/9789390937165]

- **Paul, A.** (2021). Plant based Edible Vaccines: A promising futuristic approach of Biotechnology. In: Chatterjee, A., Mandal, S. (eds.) *Plant Science Today & Tomorrow*. Insta Publishing, Kolkata, India, pp. 65-78. [ISBN: 978-93-90719-89-1]
- **Paul, A.** (2020). Glorious history of Acharya Jagadish Chandra Bose Indian Botanic Garden in the timeline of pre and post independent India. In: Islam, A., Rajguru, J., Majhi, S., Mondal, S.K. (eds.) *Science and Technology: A Concise History and Evolution*. Kumud Publications, Delhi, India, pp. 316-336. [ISBN: 978-81-945060-3-4]
- **Paul, A.** and Banerjee, N. (2020). Evaluation of phylogenetic relationships of some medicinally important species of *Solanum* based on seed protein profile of SDS-PAGE. *Advances in Zoology and Botany*, 8(5): 439-446. [ISSN: 2331-5083, ONLINE ISSN: 2331-5091; DOI: 10.13189/azb.2020.080508; Peer-Reviewed; **UGC-CARE** listed (Group-I) & Indexed Journal]
- Chatterjee, S. and **Paul, A.** (2020). Evaluation of cytotoxic potential of acetamiprid on *Allium cepa* L. *Research Journal of Agricultural Sciences*, 11(4): 919-924. [ISSN: 0976-1675, ONLINE ISSN: 2249-4538; DOI: 6069-1804-177; Peer-Reviewed; **UGC-CARE** listed (Group-I)]
- **Paul, A.**, Roy, A. and Banerjee, N. (2019). Phylogenetic relationship of some species of *Allium* L. on the basis of morphological, biochemical and cytological study. *International Journal of Recent Scientific Research*, 10(8B): 34038-34103. [ISSN 0976-3031; DOI: 10.24327/ijrsr.2019.1008.3820; Peer-Reviewed; **UGC listed** (No. 49336) & Indexed Journal]
- **Paul, A.** (2018). Parag milone tap utpadankari udvid. *Abhimukh*, 5(03): 86-90. [ISSN: 2349-4107]
- **Paul, A.** and Banerjee, N. (2015). Phylogenetic relationship of some species of *Solanum* based on morphological, biochemical and cytological parameters. *Indian Journal of Fundamental and Applied Life Sciences*, 5(03): 51-56. [ISSN: 2231-6345, Peer-Reviewed & Indexed Journal]
- **Paul, A.** and Banerjee, N. (2015). Phylogenetic diversity and relationships of some medicinally important species of *Solanum* as revealed by seed morphometric and biochemical analysis. *International Journal of Advanced Research*, 3(07): 1403-1409. [ISSN: 2320-5407, Peer-Reviewed & Indexed Journal]
- Roy, A.M., Ghosh, S., **Paul, A.**, Mondal, T., Pal, J. and Banerjee, N. (2014). Comparative study of cytotoxic effect by indofil, bavistin and biofungicide on the seeds of Lentil (*Lens culinaris* M.). *International Journal of Current Research*, 6(08): 7759-7762. [ISSN: 0975-833X, Peer-Reviewed & Indexed Journal]
- Nag, S., **Paul, A.** and Choudhuri, M.A. (2013). Changes in peroxidase activity during adventitious root formation at the base of Mung bean cutting. *International Journal of Scientific and Technology Research*, 2(05): 171-177. [ISSN: 2277-8616, Peer-Reviewed & Indexed Journal]
- Nag, S., **Paul, A.** and Choudhuri, M.A. (2013). Role of endogenous nucleic acids and proteins in adventitious root formation in Mung bean cutting. *International Journal of Innovative Research in Science, Engineering and Technology*, 2(05): 1337-1342. [ISSN: 2319-8753, Peer-Reviewed & Indexed Journal]
- **Paul, A.**, Nag, S. and Sinha, K. (2013). Cytological effects on blitox on root mitosis of *Allium cepa* L. *International Journal of Scientific and Research Publications*, 3(05): 1-6. [ISSN: 2250-3153, Peer-Reviewed & Indexed Journal]

- Nag, S., **Paul, A.** and Dutta, R. (2013). Phytochemical analysis of methanolic extracts of leaves of some medicinal plants. *International Journal of Scientific and Research Publications*, 3(04): 1-5. [ISSN: 2250-3153, Peer-Reviewed & Indexed Journal]

✚ Active participation in Academic Courses: 24

❖ Seminar / Conference: 09

- Presented paper (**Oral**) on “Magical approach of Silver nanoparticles in tissue culture techniques to enhance secondary metabolites of *in vitro* Plants: A Brief Review”, in one day **International Seminar** on Life and Environment: Issues and Concern; organized by Department of Botany in collaboration with IQAC, Vivekananda Mahavidyalaya, Burdwan, West Bengal; held from 9th March, 2023.
- Presented paper (**Oral**) on “Comparative *in vitro* study of some selected species of *solanum* to assess morphogenetic patterns of growth and regenerative potential”, in one day **International Seminar** on Emerging Trends in Biological Sciences; organized by Department of Botany, Suri Vidyasagar College, Suri, Birbhum, West Bengal; held from 8th November, 2022.
- Presented paper (**Oral**) on “Phylogenetic Relationship of some species of *Solanum* based on morphological, biochemical and cytological parameters”, in one day **National Seminar** on Progress of Plant Science in Post Independence Era; organized by Department of Botany & Forestry [Supported by UGC-DRS-SAP & BOOST (DHESTBT)], Vidyasagar University, Midnapore, West Bengal; held on 4th August, 2022.
- Presented paper (**Poster**) on “Evaluation of phylogenetic relationship of some medicinally important species of *Solanum* on the basis of karyomorphological study and seed protein profile of SDS-PAGE”, in **International Seminar** on Recent Trends in Life Sciences; organized by Department of Botany, Sidho Kanho Birsha University, Purulia and International academy of Science and research, Kolkata, West Bengal; held from 28th-29th November, 2019.
- Presented paper (**Poster**) on “Phylogenetic relationship of some species of *Solanum* on the basis of karyomorphological study”, in **National Seminar** on Sustainable Utilization of Plants and Microbes; organized by Department of Botany, Visva-Bharati, Santiniketan, West Bengal; held on 28th March, 2019.
- Presented paper (**Oral**) on “Comparative *in vitro* study of three selected species of *Solanum* to assess morphogenetic patterns of growth and regenerative potential”, in **National Seminar** on Advent of Biotechnology in Life Processes; organized by Department of Biotechnology (Supported by BOOST III, DHESTBT), The University of Burdwan, West Bengal; held from 22th-23th March, 2018.
- Presented paper (**Oral**) on “Phylogenetic relationship of some species of *Solanum* based on karyomorphological study”, in **National Seminar** on Plant and Microbial resources; utilization and conservation; organized by Department of Botany, Visva-Bharati, Santiniketan, West Bengal; held from 15th-16th March, 2017.
- Presented paper (**Poster**) on “Phylogenetic diversity and relationship of some species of *Solanum* as revealed by morphometric, biochemical and cytological analysis” in UGC-SAP-DRS sponsored **National Seminar** on Plant and Microbe: Diversity and Utilization; organized by Department of Botany, Visva-Bharati, Santiniketan, West Bengal; held from 19th-20th March, 2016.
- Presented paper (**Oral**) on “Phylogenetic relationship of some species of *Solanum* on the basis of morphological, biochemical and cytological parameters” in **National Seminar** on Contemporary Progress in Plant Sciences; organized by Department of Botany (UGC centre of advance study), The University of Burdwan, West Bengal; held from 20th-21th March, 2015.

❖ Seminar / Webinar as Invited Resource Person: 08

- Delivering special lecture as a resource person on the topic title: 'Branching Out Together: How Tree Plantation Shapes Human Civilization' organized by Rajnagar Mahavidyalaya, Rajnagar, Birbhum; held on 27th March, 2024.
- Delivering special lecture as keynote speaker on the topic title: 'Greening the Future: Strategies to Combat Deforestation' on the occasion of National Science Day celebration; organized by Department of Physics, Chemistry, Mathematics, NSS Units in collaboration with the Environmental Studies Subcommittee & IQAC Turku Hansda Lapsa Hemram Mahavidyalay, Madian, Birbhum, west Bengal; held on 28th February, 2024.
- Delivering lecture as a resource person on the topic title: 'COVID-19: Variants, Transmission and Prevention' in one day **State Level Webinar** on COVID-19: Variants, Transmission and Prevention; organized by WBSCC and Welfare Unit NSS, Rampurhat College in collaboration with IQAC, Rampurhat College, Rampurhat, Birbhum; held on 1st January, 2022.
- Delivering lecture as a resource person on the topic title: 'Deforestation: A major threat to Biodiversity' in one day **State Level Webinar** on Biodiversity: Threats and Conservation; organized by Department of Botany, Rampurhat College in collaboration with IQAC, Rampurhat College, Rampurhat, Birbhum; held on 25th September, 2021.
- Keynote speaker on the topic title: 'COVID-19: Structure, Infection, Transmission & Prevention' in **National Webinar** on COVID-19: Structure, Infection, Transmission & Prevention; organized by Department of Botany, Mayurakshi Gramin College, Ranishwar, Dumka, Jharkhand; held on 20th June, 2021.
- Keynote speaker on the topic title: 'Deforestation: A Global Threat' in **National Webinar** on the occasion of World Environmental Day; organized by Department of Botany, Mayurakshi Gramin College, Ranishwar, Dumka, Jharkhand; held on 5th June, 2021.
- Delivering lecture as a resource person on the topic title: 'Sex Determination in Plants' in **State Level Webinar** on Trends in Biology: Past, Present & Future; organized in collaboration by the Department of Zoology and the Department of Botany, Kandra Radha Kanta Kundu Mahavidyalaya, Kandra, Purba Burdwan, West Bengal; held on 29th September, 2020.
- Delivering lecture as a resource person on the topic title: 'Covid-19: Structure, Infection and Transmission among humans' in **National Webinar** (Series-5) on Current Challenges in Biology; organized by Department of Zoology & Internal Quality Assurance Cell (IQAC), Rabindra Mahavidyalaya, Champadanga, Hooghly, West Bengal; held from 1st-3rd and 10th July, 2020.

❖ 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.
- **Demonstrated** Workshop on 'Mitosis study of *Allium cepa*'; organized by Department of Zoology, Rabindra Mahavidyalaya, Champadanga, Hooghly, West Bengal, India; held from 2nd-3rd July, 2018.
- **Attended** National Workshop on 'Advanced Optical Microscopy'; organized by University Science Instrumentation Centre, The University of Burdwan, Burdwan, West Bengal, India; held from 25th-27th April, 2018.

❖ **Human Resource Development Center (HRDC) / Academic Staff College Orientation / Refresher Course/ NEP Course: 04**

Name of the Course	Place	Duration	Sponsoring Agency	Grade
Orientation Programme	Guru Ghashidas Vishwavidyalaya, Chattisgarh	10.06.19 to 29.06.19	U.G.C., HRDC, Guru Ghashidas Vishwavidyalaya, Chattisgarh	A
Refresher Course	Jadavpur University, West Bengal	27.01.20 to 08.02.20	U.G.C., HRDC, Jadavpur University, W.B.	A
Refresher Course (Online)	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	31.07.23 to 12.08.23	U.G.C., HRDC, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	A
NEP 2020 Orientation & Sensitization Programme-6 (Online)	The University of Burdwan, West Bengal	19.02.24 to 28.02.24	U.G.C., MM-TTP, The University of Burdwan, West Bengal	Q

✚ **Summary of Academic Excellency:**

Publication		Paper Presentation in Seminar	Resource Person in Seminar / Webinar	Participation in Workshop	HRDC / MMTTC course
Research Paper	Book Chapters				
22	04	09	08	03	04

Anirban Paul

Dr. Anirban Paul
June, 2024