

## Curriculum Vitae

**Name:** Dr. Dipannita Parial

**Designation:** State Aided College Teacher (Category I)

**Department:** Botany

**Email Id/Contact Number:** [dipannita.parial@gmail.com](mailto:dipannita.parial@gmail.com); 9477403150



### Educational Qualification (In chronological order):

Examination Passed	Year of Passing	Board/ University	Subject Offered	Division/ Grade	% of Marks
Madhyamik	2001	West Bengal Board of Secondary Education	Bengali, English, Mathematics, Physical science, Life Science, History, Geography, Additional Biology	First Division	70.1%
Higher Secondary	2003	West Bengal Council of Higher Secondary Education	Bengali, English, Biology, Physics, Chemistry, Additional Computer Application	First Division	66.3%
B.Sc. in Botany (Hons.)	2006	University of Calcutta	<b>Botany (Hons)</b> , Zoo, Chem, Eng, Beng, EVS	First class	67.1%
M.Sc. in Botany	2008	University of Calcutta	<b>Botany</b> (special paper- <b>Cell biology, Mol genetics &amp; Plant biotechnology</b> )	First Class	72.6%
Ph.D. in Botany	2015	University of Calcutta	<b>Botany</b>	--	--

**Area of Interest:** Plant science, Phycology, Algal biotechnology, Nanobiotechnology

**Teaching Experience:** Total 8+ years (from September, 2015 till date)

1. Worked as a Guest Lecturer in the **Post Graduate Department of Botany at Serampore College**, Hooghly for **3+ years** (from September 2015 to January 2019).
2. Worked as a Guest Lecturer in the **Post Graduate Department of Botany at Lady Brabourne College**, Kolkata for six months (from July 2019 to December 2019).
3. Working as a State Aided College Teacher Category I (previously as college appointed Contractual Whole Time Teacher) in the Department of Botany, **Sammilani Mahavidyalaya**, Baghajatin for **7+ years** (from 1<sup>st</sup> August 2016 till date).

**Research Experience:**

1. Worked one year (from 1<sup>st</sup> January 2010-27<sup>th</sup> December 2010) as **Project Fellow in a University Grants Commission (UGC)** funded project at Phycology laboratory, Department of Botany, University of Calcutta.
2. Worked as **UGC-RFSMS** (University Grants Commission-Research Fellowship in Science for Meritorious Students) **Junior Research Fellow** for two years (28<sup>th</sup> December 2010- 27<sup>th</sup> December 2012) and as **Senior Research Fellow** for another two years (28<sup>th</sup> December 2012- 29<sup>th</sup> January 2015) at Phycology laboratory, Department of Botany, University of Calcutta.

## **Publications:**

1. Uttpal Anand, Satarupa Dey, **Dipannita Parial**, Stefania Federici, Serena Ducoli, Nanthi S. Bolan, Abhijit Dey & Elza Bontempi. Algae and bacteria consortia for wastewater decontamination and transformation into biodiesel, bioethanol, biohydrogen, biofertilizers and animal feed: a review. *Environmental Chemistry Letters*. 2023. 21, 1585–1609. **Impact factor- 13.615**
2. **Dipannita Parial**, Priya K. Gopal, Santanu Paul, Ruma Pal. Gold (III) bioreduction by cyanobacteria with special reference to in vitro biosafety assay of gold nanoparticles. *Journal of Applied Phycology*. 2016. 28(6): 0921-8971. **Impact factor-3.404**
3. Nabanita Chakraborty, **Dipannita Parial** and Ruma Pal. Biochemical modulation of stress related compounds in lead resistant cyanobacteria in short and long term duration. *International Journal of Applied Research*. 2015. 1(12): 674-678
4. **Dipannita Parial** and Ruma Pal. Biosynthesis of monodisperse gold nanoparticles by green alga *Rhizoclonium* and associated biochemical changes. *Journal of Applied Phycology*. 2015, 27(2): 975-984. **Impact Factor- 3.404**
5. **Dipannita Parial** and Ruma Pal. Green synthesis of gold nanoparticles using cyanobacteria and their characterization. *Indian Journal of Applied Research*. 2014. 4: 69-72.
6. **Dipannita Parial**, Hirak K. Patra, Piya Roychoudhury, Anjan Kr. Dasgupta and Ruma Pal. Gold nanorod production by cyanobacteria- a green chemistry approach. *Journal of Applied Phycology*. 2012. 24: 55-60. **Impact Factor- 3.404**
7. **Dipannita Parial**, Hirak K. Patra, Anjan Kr. Dasgupta and Ruma Pal. Screening of different algae for green synthesis of gold nanoparticles. *European journal of phycology*. 2012. 47 (1): 22-29. **Impact factor- 2.667**
8. Sudeshna Mukherjee, **Dipannita Parial**, Nilofer Khatoon, Atreyee Chaudhuri, Sudeshna Senroy, Sumit Homechaudhuri and Ruma Pal. Effect of Formulated Algal Diet on growth performance of *Labeo rohita* Hamilton. *Journal of Algal Biomass Utilization*. 2011. 2 (4): 1– 9.

### **Book chapter publications:**

1. **Dipannita Parial**, Satarupa Dey. 2023. Role of Microalgae in Wastewater Treatment and Their Role in Nutrient Recovery. In “Sustainable Industrial Wastewater Treatment and Pollution Control”. Springer. In press.
2. **Dipannita Parial**, Satarupa Dey. 2023. Potential use of algae and bacteria for bioremediation of waste water: A critical review. In “Toxicity of Aquatic systems and remediation- The contemporary issues”. CRC press. Taylor and Francis group. Accepted.

### **Seminar or Conference attended:**

#### **International Conference attended:**

1. Presented a **poster** entitled “Cyanobacteria and Algae: The green nanofactories of gold” in Internatioinal conference on **The Green Planet: Past, Present and Future** organized by **CAS-VII, Dept of Botany, C.U.** in collaboration with **Probir Chatterjee Research Foundation** and **Botanical Survey of India** on 21<sup>st</sup> and 23<sup>rd</sup> December, 2016.
2. Presented a paper (**oral** presentation) entitled “Algae as green gold nanofactory” in **8<sup>th</sup> Asia Pacific Conference on Algal Biotechnology** Jointly organized by **Flinders University, The University of Adelaide, University of South Australia, James Cook University, Murdoch University, Government of Australia, South Australian R&D Institute** in Adelaide Convention centre, **Adelaide, South Australia** on 9-12<sup>th</sup> July 2012.
3. Presented a paper (**oral** presentation) entitled “Green synthesis of gold nanorods using cyanobacterium as bioreagent” in **International Algal Summit**, jointly organized by **Indian Phycological Society** and **The Energy and Resources Institute, New Delhi, India**, 21-22<sup>nd</sup> Feb 2012

4. Presented a paper (**Poster** presentation) entitled “Evaluation of algae based value added feeds for Indian major carp *Labeo rohita* fingerlings” in **9<sup>th</sup> Asian Fisheries and Aquaculture Forum**, organized by **Shanghai Ocean University** and **Asian Fisheries Society, Shanghai, China**, 21-24<sup>th</sup> April, 2011.
5. Presented a paper (**Poster** presentation) entitled “Production of gold nanoparticles using microalgae” in **7<sup>th</sup> Asia Pacific Conference on Algal Biotechnology**, jointly organized by **Department of Botany, University of Delhi** and **Indian Phycological society, Delhi, India**, 1-4<sup>th</sup> Dec. 2009

**National Seminar attended:**

1. Attended a national seminar on **Science and Technology: Rural Development** organized by Surendranath College, Kolkata on 20.01.2020-21.01.2020.
2. Attended a **national seminar on Recent Advances in Cryptogamic Botany & 16<sup>th</sup> Probir Chatterjee Memorial Lecture**, organized by **Probir Chatterjee Research Foundation** in collaboration with **CAS, Department of Botany, University of Calcutta** on 02.02.2018.
3. Attended a **national seminar on Reseach Scenario in Plant Science**, organized by **Archana Sharma Foundation** and **CAS, Department of Botany, University of Calcutta** on 08.01.2013.
4. Attended a **national seminar on Cryptogamic Botany: From curriculam to application**, organized by **Probir Chatterjee Research Foundation** in collaboration with **Department of Botany, University of Calcutta** on 19.11.2013.
5. Attended a **national symposium on Genomics Research and Impact in Plant System**, organized by **CAS, Department of Botany, University of Calcutta** on 21.03.2011.
6. Attended a national symposium on **Advances in Plant Sciences, Agri- Biotechnology and Food-Security**, organized by **Visva Bharati** in collaboration with **Plant Physiology Forum, C.U., AICBA, New Delhi** and **Dept. of Agricultural, Gov. of West Bengal** on 10.04.2009.

### **State level Seminars attended:**

1. Presented a paper (**Poster presentation**) entitled “Algae as reducing agent in the biosynthesis of gold nanoparticles” in **18<sup>th</sup> West Bengal State Science and Technology Congress** Organized by **West Bengal State Science and Technology Department, West Bengal, India** and **Ramkrishna Mission Residential College, Narendrapur, Kolkata, West Bengal, India**, 28<sup>th</sup> Feb- 1<sup>st</sup> March, 2011.
2. Presented a paper (**Poster presentation**) entitled “Evaluation of microalgae in Gold fish nutrition” on **State level seminar** on Playing God: Expanding Frontiers of Biotechnology, organized by Gurudas College in collaboration with IICB, **Kolkata**, 6-7<sup>th</sup> Nov. 2009.

### **Webinars attended:**

1. Attended webinar on “SARS-COV-2: Virus and health issues” organized by **Bethune college**, Kolkata on 12.06.2020.
2. Attended webinar on “COVID-19 Prevention and control in higher education institution” jointly organized by **Shibpur Dinobundhoo Institution (college)**, Shibpur, Howrah and **Dr. Kanailal Bhattacharya college**, Howrah on 13.06.2020.
3. Attended webinar on “COVID-19: Science and Reality” organized by **Narasinha Dutt college**, Kolkata on 13.06.2020.
4. Attended webinar on “Role of chromosome in plant taxonomy” organized by **VIVA College**, Virar, Maharashtra on 15th June 2020.
5. Attended a national webinar entitled “Herbal resources and its role in boosting immunity against COVID-19” organized by **Jiwaji University, Gwalior** on 15.06.2020.
6. Attended a webinar on “COVID 19: Economy, Polity and Social Media” organized by **Bethune college**, Kolkata on 19.06.2020.

7. Attended an International online Faculty Enrichment Programme on "Tips & Tricks for Publishing in International Scientific Journals organized by Department of Zoology, Chemistry, Botany & Physics, **Surendranath College** on June 20th, 2020.
8. Attended a two days International webinar series organized by **City College**, Kolkata on 20<sup>th</sup> and 21<sup>st</sup> June, 2020.
9. Attended a webinar organized by **Faculty of Science, Annamalai University** in collaboration with **ELSEVIER** on "Basic Author Workshop Research Article Writing & Reference Management Using Mendeley" on Monday, 22nd June 2020.
10. Attended an International online webinar on "Prevention and control of vector borne disease amidst COVID 19" organized by IQAC, **Surendranath College** on June 24th, 2020.
11. Attended webinar on "Current Trends in Basic Sciences and Career Opportunities" organised by Department of Botany, Chemistry and IQAC, **Balurghat Mahila Mahavidyalaya** from **June 25 to 26, 2020**.
12. Attended a **5 days online International faculty development programme** organized by **IARA in association with Barrackpore Rastraguru Surendranath College and Panihati Mahavidyalaya** from 25<sup>th</sup>-29<sup>th</sup> June, 2020.
13. Attended a webinar in 'Sir J. C. Bose Annual Memorial Lecture', organized by IQAC in collaboration with Departments of Microbiology & Botany, **Raidighi College** on 26.06.2020.
14. Attended a webinar on "Covid-19: facts and facets" organised by IQAC, **Sarat Cenntenary college** on 26 June, 2020.
15. Attended an International Webinar on "COVID 19: Emerging Challenges and Capacity Building" on 26th and 27th June, 2020 organized by **I.Q.A.C., Bangabasi Morning College**.
16. Attended a RUSA sponsored National webinar on '*Biofacet-Plant Health Management*'

held by Department of Microbiology and Biotechnology, **Chikitsak Samuha's Sir Sitaram & Lady Shantabai Patkar College of Arts & Science and V. P. Varde College of Commerce & Economics**, Mumbai on 29th June, 2020.

17. Attended a webinar entitled "Plant biotechnology and its application" organized by **Gurudas College** on 29.06.2020.
18. Attended a webinar on "Recent Advances in Biology" organized by Department of Botany, **Lady Brabourne College**, Kolkata on 30.06.2020.
19. Attended a national webinar entitled "Potentials of Indian medicine and herbs against Covid 19 and ways to combat the mental trauma arising in this pandemic scenario", organized by Department of Botany in association with IQAC, **Malda College**, Malda on 1st July, 2020.
20. Attended a webinar series on "COVID 19: An Enigma" organized by Department of Microbiology, **Lady Brabourne College**, Kolkata on 1<sup>st</sup>, 2<sup>nd</sup>, 4<sup>th</sup> and 5<sup>th</sup> July, 2020.
21. Attended an International webinar "COVID-19: Through the Eyes of Young Researchers" organized by Department of Zoology, Chemistry, Botany & Physics, **Surendranath College** on July 3rd & 4th, 2020.
22. Attended a national webinar series entitled "'Science amidst Covid Pandemic: Life Goes On.....'" organized by department of Microbiology, **Sammilani Mahavidyalaya in collaboration with IQAC and department of Microbiology, Raidighi College** on 15th and 16<sup>th</sup>, 17<sup>th</sup> and 21st July, 2020.
23. Attended a national webinar series entitled "Life in the Universe and Diversity" organized by department of Botany in collaboration with IQAC, **Ranaghat College** on 15th and 16th July, 2020.
24. Attended a national webinar on "Tropical Cyclones: Lessons learnt from Amphan" organized by **Narasinha Dutt college**, Kolkata on 17.07.2020.



25. Attended a state level webinar on “Choosing Plants for Future Urban Population: Let’s Think Smart” organized by **Shibpur Dinobundhoo Institution (college)**, Shibpur, Howrah on 21.07.2020.

**Others:**

**Workshop attended:**

1. Attended a workshop on **B.Sc. Practical Syllabus (Algae and Fungi)** organized by **Probir Chatterjee Research Foundation** in collaboration with **CAS, Department of Botany, University of Calcutta** on 1.08.2018.
2. Attended a **workshop on Semesterized CBCS syllabus in Botany (Honours and General)**, C.U organized jointly by UGBOS in Botany and Deptt. Of Botany, C.U. on 23.06.2018.
3. Attended a workshop on **Intellectual Property Rights** organized by Patent Information Centre, West Bengal State Council of Science and Technology, DST and Bengal College of Engineering and Technology on 30.03.2011.

**Awards received:**

1. Awarded **1<sup>st</sup> prize for poster presentation** at “7<sup>th</sup> Asia Pacific Conference on Algal Biotechnology” held from 1<sup>st</sup> to 4<sup>th</sup> December, 2009, New-Delhi, India.
2. Awarded **1<sup>st</sup> prize for oral presentation** at “18<sup>th</sup> West Bengal State Science and Technology Congress” held from 28<sup>th</sup> Feb- 1<sup>st</sup> March, 2011, Kolkata, West Bengal, India.

**Foreign Travel Grants received:**

1. Awarded travel grant for attending International conference under **UPE from UGC** under XI<sup>th</sup> plan period to attend and present poster at “9<sup>th</sup> Asian Fisheries and Aquaculture Forum” held at, Shanghai, **China**, 21-24<sup>th</sup> April, 2011.
2. Awarded travel grant from Science and Engineering Research Board (SERB) under Department of Science and Technology (**DST**), Government of India for attending International conference “8<sup>th</sup> Asia Pacific Conference on Algal Biotechnology” held at Adelaide Convention centre, Adelaide, South **Australia**, 9-12<sup>th</sup> July 2012.

Date:

Kolkata

Dipannita Parial