

DR. ANTARA ROY

B.Sc, M.Sc, Dip. Diet, NET(JRF), Ph. D, AMRSC

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AWARDS &

ACHIEVEMENTS

ACHIEVEMENTS:

- Rank in Top 10 Ranker list in B.Sc. (Hons) course of West Bengal State University.
- Rank in Top 10 Ranker list in M.Sc. course of Calcutta University.
- Rank in Top 10 Ranker list in Diploma in Dietetics course of West Bengal University of Health Sciences.
- Qualified for Assistant Professor (NET) in July, 2016.
- Qualified for Junior Research Fellow & Assistant Professor (NET) in January, 2017.
- Presenting poster in 5th Commonwealth Chemistry Posters event organized by The Royal Society of Chemistry (RSC).
- Presenting lecture (oral) in 7th Regional Science and Technology Congress-2024-25, Govt. of WB.
- Presenting poster in #RSC Poster conference 2025.

AWARDS:

- In Society for Nutrition and Dietetics Annual conference secure **2nd position** for lecture competition 2017.
- In Society for Nutrition and Dietetics Annual conference secure **1st position** for lecture competition 2018.
- In Asutosh College National Conference, delivered **Poster presentation** and Awarded for **best Poster presentation**, 2023.
- In International Conference on Chemistry for Human Development, delivered **Oral presentation** and Awarded for **best Oral presentation**, 2025.
- In **7th Regional Science and Technology Congress-2024-25**, Govt. of WB., delivered **Oral presentation** and Awarded for **best Oral presentation**, 2025.

SKILLS &EXPERIENCES	7 Years of Research Experience <i>As a Doctoral Research Fellow</i>	
	Worked as a Consultant Dietitian <i>In Private Nursing Home</i>	
	Worked as a Lab Technologist <i>In Advanced Analytical Testing Laboratory</i>	
	Worked as a Guest Assistant Professor <i>In IGNU Centre</i>	

EDUCATION	University of Calcutta, AWARDED, 2025 Ph.D.: Food Nanotechnology	
	AIIH&PH,1st Class, 2017 Dip. Diet: Nutrition and Dietetics	
	University of Calcutta, 1st Class (In Top 10 Ranker List), 2015 M.Sc.: Food and Nutrition	
	W.B.S.U, 1st Division (In Top 10 Ranker List), 2013 B.Sc. (Honours): Food and Nutrition	
	W.B.C.H.S.E, 1st Division School Topper In Bioscience, 2010 Higher Secondary: Bio-science(Nutrition, Biology & chemistry)	
	W.B.B.S.E, 1st Division, 2008 Madhyamik: All Subjects	

PH.D. TOPIC	Studies On Fabrication Of Organic Nanomaterials And Development Of Their Antibacterial Activities For Protecting Fruits And Vegetables.
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PUBLISHED ARTICLES	<ul style="list-style-type: none"> Sustainable Novel Edible Food Coating of Acetylated Gallic Acid Modified Chitosan Nanoparticles with Pulsed Light Treatment: A Promising Food Preservative, Author(s): <u>Antara Roy</u>; Anindya Manna; Subrata Gayen; Debasish Bandyopadhyay; Dilip Maiti, 2024, ACS Food Science & Technology, 4, 6. Smart Luminescent Materials for Emerging Sensors: Fundamentals and Advances.
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Author(s): Maiti, D. K., Manna, A. S., Ghosh, S., Ghosh, T., Karchaudhuri, N., Das, S., & **Roy, A.**, 2025, Chemistry–An Asian Journal, e202401328.

- Recent Applications and Influences of Artificial Intelligence (AI) in Chemical and Allied Sciences. Author(s): Anindya S. Manna; **Antara Roy**; Rajjakfur Rahaman; Dilip K. Maiti. International Journal of Cheminformatics, 1, 2, 22-48.
- Green synthesis of bioactive pyrroles. Author(s): Anindya S. Manna, Sandip Das, Tanmoy Ghosh, Rajesh Nandi, **Antara Roy**, Nilay Karchaudhuri, Narendra Nath Ghosh, and Dilip K. Maiti. Bioactive Five-Membered Heterocycles: Natural Products, Green Synthesis and Bioactivity, Walter de Gruyter GmbH & Co KG, Apr 2025.
- Green synthesis of bioactive oxaziridines. Author(s): Rajesh Nandi, Sukla Ghosh, Subhasis Pal, Anindya S Manna, Tanmoy Ghosh, **Antara Roy**, Dilip K Maiti. Bioactive Three-Membered Heterocycles: Natural Products, Green Synthesis and Bioactivity, Walter de Gruyter GmbH & Co KG, Apr 2025.
- Development Of Chappati, A Low Cost Traditional Indian Food, Using Common Ingredients In Different Composition -A Comparative Study. Author(s): **Antara Roy**, Sarmistha Chakrabarti, 2017, INT.J.ADV.RES., 5, 1, 2371-237.
- Antidiabetic Effects of Syzygium Jambolanum. Author(s): **Antara Roy***, Dilip K. Maiti and Bimal Krishna Banik- Current Medicinal Chemistry.
- The Role of Vitamin C against Cancer. Author(s): **Antara Roy***, Dilip K. Maiti and Bimal Krishna Banik-Current Medicinal Chemistry.
- Innovative β -Lactam-Heterocyclic Metal Conjugates: Bridging Organic and Inorganic Chemistry for Enhanced Biological Activity. Author(S): **Antara Roy**, Rajesh Nandi, Aparna De, Anindya S Manna, Nilay Karchaudhuri- CRC.
- Innovative Organic Nano-materials for Smart Memory Devices. Author(s): Anindya S. Manna, Rajesh Nandi, Prakash K. Mandal, Tanmoy Ghosh, **Antara Roy** and Dilip Maiti- Springer Nature.

**ORGANIZING
COMMITTEE
MEMBER IN
CONFERENCE**

International Conference on Chemistry for Human Development, University of Calcutta, 2025.

**ATTENDING
FACULTY
DEVELOPMENT**

- Indian Institute of Packaging, Kolkata Centre organized Packaging Education for Future Excellence on 31st may, 2025.

PROGRAMME(FDP)

- FDP organized by IQAC, Adamas university in collaboration with AADC (Academic and Administrative Development Centre), on 3-12 June,2025.
- 6–Day Short-Term Programme on Mental Health and Stress Management, Manipur University, from 23/06/2025 - 28/06/2025.
- Short-Term Programme in ICT Enabled Learning organized by the UGC-Malaviya Mission Teacher Training Centre, Kumaun University, Nainital, from 09/07/2025 - 15/07/2025.

SEMINARS & CONFERENCES

- National Service Scheme Special Camp, 03/24/11 - 03/30/11, H.M.M college for women.
- Seminar on National Nutrition Week, 09/01/13 - 09/07/13, Dept. of Home Science, Calcutta University.
- Seminar on Research Methodology & Statistical Techniques, 01/21/15, Dept. of Home Science, Calcutta University.
- Annual Conference on The Spectrum of Diabetic Disorders (**ORAL PRESENTATIONS**), 02/19/17, Society for Nutrition & Dietetics.
- 50th Annual National Conference of Indian Dietetic Association, 12/18/17 - 12/20/17, Indian Dietetic Association.
- Annual Conference on Depression (**ORAL PRESENTATION**), 03/10/18, Society for Nutrition & Dietetics.
- Second International NIN centenary conference on Aligning food systems for healthy diets and improved nutrition (**POSTER PRESENTATION**), 11/11/18 - 11/13/18, National Institute of Nutrition.
- 5th Annual Conference on Recent perception in nutrition and dietetics for combating chronic diseases, 02/03/19, Society for Nutrition & Dietetics.
- International Conference on Chemistry for Human Development, 01/09/20 - 01/11/20, University of Calcutta.
- National conference MCBT -2023 (**POSTER PRESENTATION**), 12/20/23, Asutosh College.
- International Seminar on Chemical and Biological Sciences (**POSTER PRESENTATION**), 12/22/23, Surendranath College.
- Prospective Research On Sustainable Development: Recent Advances And Future Prospects, 08/19/24 - 08/24/24, Department of Chemistry, School of Basic Sciences, VISTAS, Chennai.

- International Conference on Chemistry for Human Development (**ORAL PRESENTATION**), 01/04/25 - 01/05/25, University of Calcutta.
- The 7th regional science & technology congress 2024-25, 14/01/25-15/01/25, (**ORAL PRESENTATION**), Bidhan Chandra Krishi Viswavidyalay.
- International webinar commemorating “World Pulses Day”, 10/02/2025, Agri Meet Foundation Bharat, ICARDA, Lebanon, ICAR-KVK Bhilwara MPUAT Udaipur, World Agriculture Organization.
- Chemistry World Webinar: Rising to the occasion; The Chemistry of Easter Breads, 02/04/25.

COMPLETED PROFESSIONAL NUTRITIONAL COURSES

- Course based on *Aquatic Foods For Nutrition* organized by **FAO (Food & Agricultural Organization of United Nations)**.
- Course based on *Right to food fundamentals - Part 2: The human right to adequate food* organized by **FAO (Food & Agricultural Organization of United Nations)**.
- Course based on *Science and risk analysis in Codex* organized by **FAO (Food & Agricultural Organization of United Nations)**.
- Course based on *Parliamentary action for food systems and nutrition: Creating an enabling environment* organized by **FAO (Food & Agricultural Organization of United Nations)**.
- Course based on *Sustainable food systems: Concept and framework* organized by **FAO (Food & Agricultural Organization of United Nations)**.

LANGUAGES KNOWN

- Bengali (Mother tongue)
- English (Read, Speak, Write)
- Hindi (Speak)

EXTRACURRICU LAR ACTIVITIES

- Singing (Diploma from Pracheen Kala Kendra)
- Painting

RELEVANT PROJECT & TRAINING PREVIOUSLY COMPLETED

- An Experimental Study on the Presence of Coliform in Water Used in Common Street Food and Drinks.
- Visit to ANMOL Biscuit Private Limited and MOTHER DAIRY Plant for Food Testing Lab Visit.
- Visit to ICDS Centre for assessing the nutritional status of children.
- Visit to Health Care Centre for assessing the nutritional status of people.

**DISSERTATION
WORK**

A Comparative Nutritional Analysis of Low Cost Supplementary Formula and Its Product- Chapattis.

**PERSONAL
INFORMATION**

- Caste: General
- Citizenship: India
- Date of Birth: 24/03/1993
- Gender: Female
- Nationality: Indian
- Religion: Hindu

**OTHER
QUALIFICATIONS**

- Completed Course of Computer Application (MS Word, Excel, Power Point etc) & Internet at Brainwire Computer Academy.