Amarnath Chattopadhyay
State Aided College Teacher
Department of Microbiology
Suri Vidyasagar College
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Academic Profile

- Bachelor of Science (B. Sc.) in Microbiology Honors in 2008 from Suri Vidyasagar College, The University of Burdwan, West Bengal, India
- Master of Science (M. Sc.) in Microbiology in 2010 from The University of Burdwan, West Bengal, India
- Project Assistant in DST sponsored research project 'Exploring Arctic microorganisms for the production of industrial enzymes', Department of Microbiology, The University of Burdwan.

Career Profile

- State Aided College Teacher in Department of Microbiology, Suri Vidyasagar College from 1st January 2020 till date.
- Guest Lecturer in Department of Microbiology, Suri Vidyasagar College from September 2013 to 31st December 2019.

Administrative Experience

Head, Department of Microbiology, Suri Vidyasagar College, from 2020-2022

Resource Person

National Workshop on Fluorescence Microscopy organized by University Science Instrumentation Centre & Department of Microbiology, The University of Burdwan.

Academic Recognition

- Special Class in the scheme of Faculty Exchange Programme under MoU with Krishna Chandra College, Hetampur for the UG Honours Students of Department of Zoology.
- Special classes for the PG students of Department of Zoology, Suri Vidyasagar College.

Publications

(1) Tatan Ghosh, **Amarnath Chattopadhyay**, Subhamay Pramanik, Sandip Das, Sumit Mukherjee, Atis C. Mandal, Probodh K. Kuiri, Biosynthesis of Highly Stable Silver Nanoparticles for Enhanced Antibacterial Effect and Efficient Photocatalytic for Dye Degradation, Brazilian Journal of Physics. 54:9 (2024)

(2) Sumit Mukherjee, Subhamay Pramanik, Sandip Das, Gaurab Bhattacharjee, Shyamal Mondal, Tatan Ghosh, **Amarnath Chattopadhyay**, Dilip Sao, Rajib Nath, Probodh K. Kuiri, Control syntesis of low aspect ratio Zn1-xAgxO nanorods using low temperature solution route: Evidence of Ag concentration, Materials Research Bulletin. 148 (2022) 111673-111678.

(3) Tatan Ghosh, **Amarnath Chattopadhyay**, Subhamay Pramanik, Ajit Das, Sumit Mukherjee, Sandip Das, Atis C. Mandal, Debasis Dhak & Probodh K. Kuiri, Role of Ag Nanoparticles on Photoluminescence Emissions, Antibacterial Activities, and Photocatalytic Effects in ZnO-Ag Nanocomposites Synthesized via Low Temperature Green Synthesis Method Using *Azadirachta Indica* Leaf Extract, Materials Technology. 37(12) (2022) 2300-2312.

(4) Tatan Ghosh, **Amarnath Chattopadhyay**, Subhamay Pramanik, Sumit Mukherjee, Sandip Das, Atis C. Mandal and Probodh K. Kuiri, Bio-synthesis of ZnO nanoparticles and their in-situ coating on cotton fabric using Azadirachta Indica leaf extract for enhanced antibacterial activity, Materials Technology. 37(11) (2022) 1755-1765.

(5) Tatan Ghosh, **Amarnath Chattopadhyay**, Atis Chandra Mandal, Subhamay Pramanik, Sumit Mukherjee, and Probodh Kumar Kuiri, Spectroscopic, microscopic and antibacterial studies of green synthesized Ag nanoparticles at room temperature using *Psidium guajava* leaf extract, Korean J. Chem. Eng. 38(12) (2021) 2549-2559.

(6) Tatan Ghosh, **Amarnath Chattopadhyay**, Atis C. Mandal, Subhamay Pramanik, Probodh K. Kuiri, Optical, structural, and antibacterial properties of biosynthesized Ag nanoparticles at room temperature using *Azadirachta indica* leaf extract, Chinese Journal of Physics. 68 (2020) 835–848.

(7) Avishek Banik, **Amarnath Chattopadhyay**, Subir Ganguly, Subhra Kanti Mukhopadhyay. Characterization of a tea pest specific Bacillus thuringiensis and identification of its toxin by MALDI-TOF mass spectrometry, Industrial Crops & Products. 137 (2019) 549–556.

(8) Arpita Dey, **Amarnath Chattopadhyay**, Subhra Kanti Mukhopadhyay, Pradipta Saha, Sabyasachi Chatterjee, Tushar Kanti Maiti and Pranab Roy. Production, Partial Purification and Characterization of an Extracellular Psychrotrophic Lipase from Pseudomonas Sp. ADT3, Bioremed Biodeg 5(6) (2014) 242-249.

(9) **Amar Nath Chattopadhyay**, Arpita Dey, Pranab Roy, Sabyasachi Chatterjee, Pradipta Saha and Subhra Kanti Mukhopadhyay, Cold Active Extracellular Hydrolytic Enzyme Producing Culturable Heterotrophic Bacteria from NY-ÅLESUND, Arctic, International Journal of Advanced Biotechnology and Research. 5(3) (2014) 271-278.
(10) Arpita Dey, **Amarnath Chattopadhyay**, Pradipta Saha, Subhrakanti Mukhopadhyay, Tushar Kanti Maiti, Sabyasachi Chatterjee, Pranab Roy, An Approach to the Identification and Characterisation of a Psychrotrophic Lipase Producing *Pseudomonas* sp ADT3 from Arctic Region, Advances in Bioscience and Biotechnology, 5 (2014) 322-332.
(11) Sisir Lohar, Animesh Sahana, Arnab Banerjee, **Amarnath Chattopadhyay**, Subhra Kanti Mukhopadhyay, Jesús Sanmartín Matalobos, Debasis Das, Aluminum(III) induced green luminescence for naked eye detection: Experimental and computational studies, Inorganica Chimica Acta. 412 (2014) 67–72.
(12) Sandip Mandal, Arnab Banerjee, Sisir Lohar, **Amarnath Chattopadhyay**, Bidisha Sarkar, Subhra Kanti Mukhopadhyay, Animesh Sahana, Debasis Das, Selective sensing of Hg^{2+}using rhodamine–thiophene conjugate: Redlight emission and visual detection of intracellular Hg^{2+}at nanomolar level, Journal of Hazardous Materials 261 (2013) 198– 205.
(13) Ipsit Hauli, Bidisha Sarkar, Trinetra Mukherjee, **Amarnath Chattopadhyay**, Subhra Kanti Mukhopadhyay, Alkaline extraction of xylan from agricultural waste, for the cost effective production of xylooligosaccharides, using thermoalkaline xylanase of thermophilic *Anoxybacillus* sp. Ip-C. Int. J. Pure App. Biosci. 1(6) (2013) 126-131.
(14) Animesh Sahana, Arnab Banerjee, Sisir Lohar, **Amarnath Chottapadhyay**, Subhra Kanti Mukhopadhyay and Debasis Das, Lighting of a rhodamine-based fluorescent lamp using $ClO4^-$ as a connector: detection by the naked eye and cell imaging studies of trace amounts of $ClO4^-$ ions, RSC Advances, 33 (2013) 14044.
(15) **Amar Nath Chattopadhyay**, Puja Singh, Arpita Dey, Pranab Roy, Sabyasachi Chatterjee, Pradipta Saha and Subhra Kanti Mukhopadhyay, Study of a psychrotolerant amylolytic *Paenibacillus* sp. isolated from Arctic region, J. Microbiol. Biotech. Res. 3(4) (2013) 24-31.
(16) Animesh Sahana, Arnab Banerjee, Subarna Guha, Sisir Lohar, **Amarnath Chattopadhyay**, Subhra Kanti Mukhopadhyay and Debasis Das, Highly selective organic fluorescent probe for azide ion: formation of a ‘‘molecular ring’’, Analyst. 137 (2012) 1544.
(17) Ajit Kumar Mahapatra, Jagannath Roy, Prithidipa Sahoo, Subhra Kanti Mukhopadhyay and **Amarnath Chattopadhyay**, Carbazole–thiosemicarbazone–Hg(II) ensemble-based colorimetric and fluorescence turn-on toward iodide in aqueous media and its application in live cell imaging, *Org. Biomol. Chem.* 10 (2012) 2231-2236.

Seminer/Workshop/Conference Attended

- Presented paper on “Green synthesis of metal nanoparticles using different plant materials and their antibacterial characterization”, 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.
- Participated in the UGC sponsored National level seminar on “Emerging Issues in Inter- & Intra-disciplinary Studies: An Indian Perspective” organized by IQAC, Suri Vidyasagar College (in collaboration with Amar Kutir Society for Rural Development, Ballavpur, Birbhum) on 4th and 5th March, 2016.
- Participated in the Hands-on-training on “Quality Standardization in Air and Water including Detection of Radioactivity in Aquatic Medium & Plant Body” organized by Department of Environmental Science, The University of Burdwan from Feb 24 to Mar 03, 2012.
- Attended the Workshop on Bioinformatics (WBI’12) organized by the Center for soft Computing Research (CSCR) of Indian Statistical Institute at Kolkata during February 15-17, 2012.
- Participated in the workshop/training on Application of “R” in Bioinformatics, organized by Department of Microbiology, Vidyasagar University from December 19-20, 2011.
- Attended in workshop on “BIOINFORMATICS: SOME OF THE FUNDAMENTALS AND THEIR APPLICATIONS” organized by Department of Microbiology, The University of Burdwan, held on 21st and 22nd December, 2011.
- Attended on “Basic & Applied Microbiology”, organized by Department of Microbiology, The University of Burdwan, held on 14th May 2010.
- Attended on “Basic & Applied Microbiology”, organized by Department of Microbiology, The University of Burdwan, held on 26.03.2010.
- Participated in the seminar on “Microbial Resources” jointly organized by Department of Botany, Visva-Bharati & Association of Microbiologists of India held on November 05, 2006.