

Teacher's Profile

Name: Dr. Shonima Talapatra Ghosh

About

Email Id:- shonimat@gmail.com

Date of Joining:- 16th August, 2017

Qualification: M.Sc., Ph.D.

Area(s) of Interest:- Microbiology, Molecular Biology, RDT, Cell Biology

Specialization/Research Interest:- Plant Molecular Biology and Bioinformatics

Teaching Experience:- 9 Years

Additional Information:

Convenor – Grievance Redressal Committee

Teacher Member – Research and Development Cell

Activities

Participation in Seminar/Conference/Workshop/Symposium:

Sl No	Year	Title	Organized By
1.	2025	Silver Jubilee Celebration “Down Memory Lane: 2000-2025”	Department of Microbiology in Collaboration with IQAC, Dhruba Chand Halder College and Microbiologists Society India (MBSI)
2.	2024	One Day Workshop on “Science, Medicine & Future: Bioinformatics, A Fundamentals to Data Analysis”	Conducted by Biotechnology and Microbiology Department of The Neotia University, organized by the Department of Microbiology, IQAC and IIC, THK Jain College, Kolkata
3.	2024	International Seminar entitled “Recent Advances in Biological Sciences”	Department of Microbiology, Scottish Church College, Kolkata in collaboration with Microbiologists Society, India and IQAC, SCC
4.	2023	One-day Invited Lecture Session entitled “Virtual Learning Ecosystem”	Central Library and IQAC, THK Jain College, Kolkata
5.	2023	Interactive Session on Curriculum and Credit Framework In the Context of National Education Policy 2020	IQAC, THK Jain College and IQAC, Seth Anandram Jaipuria College, Kolkata
6.	2023	One Day Faculty Development Workshop on “Co-learning in a Boundary-less Classroom with Innovative Pedagogy”	IQAC of THK Jain College, Kolkata
7.	2022	One Day Workshop on “Managing Publication Ethics in Social Science”	Department of Commerce and IQAC of THK Jain College, Kolkata

8.	2022	IP Awareness/Training Program under National Intellectual Property Awareness Mission (NIPAM)	Intellectual Property Office (Govt. of India, Ministry of Commerce and Industry)
9.	2020	State Level Webinar on Cancer Awareness	Science Promotion Committee, Lady Brabourne College, Kolkata
10.	2020	One day National Webinar entitled "How to live a healthy life amidst the Pandemic crisis"	A DBT STAR COLLEGE initiative in collaboration with IQAC, Maulana Azad College, Kolkata
11.	2020	One Day National Level Seminar entitled "New Horizons in Life Sciences"	Department of Microbiology, Ramakrishna Mission Vidyamandira and sponsored by Swami Vivekananda Research Centre
12.	2020	One-Day International Webinar entitled "Emerging Health Management with special reference to Covid-19 & Snakebite In India"	Internal Quality Assurance Cell (IQAC), Maulana Azad College, Kolkata in collaboration with Dr. Sites Chandra Lahiri Memorial Foundation
13.	2020	Three Days International Virtual Workshop on "Covid-19: RT-PCR Diagnostics and Therapeutics" under DST-PURSE-II Programme	University of Kalyani in collaboration with CoM-JNM Hospital, Nadia
14.	2020	One-day National webinar entitled "Emergence of New Pandemics: New Challenges to Microbiologists"	Post Graduate Department of Microbiology & IQAC Bidhannagar College, Govt. of West Bengal, Kolkata
15.	2020	National Webinar on Intellectual Property Rights (IPRs)	Internal Quality Assurance Cell (IQAC), THK Jain College, Kolkata
16.	2020	National level Webinar Series on "Science amidst Covid Pandemic: Life Goes On..." entitled "Microbial Technology for clean and green environment with nutritious food for masses"	Department of Microbiology & IQAC of Raidighi College and Department of Microbiology & IQAC of Sammilani Mahavidyalaya
17.	2020	International Webinar, MicroBi-Con-2020 entitled "SARS-CoV-2: In Search of Origin to Antidote"	Department of Microbiology, Dum Dum Motijheel College, Kolkata
18.	2020	Microbiological webinar series entitled "Microbes for Human Welfare"	P.G. Department of Biotechnology of Lyallpur Khalsa College, Jalandhar, Punjab in Collaboration with Microbiologists Society, India
19.	2020	National Webinar Lecture Series on Biodiversity entitled "Intellectual Property Right in Perspective of Biodiversity in India"	IQAC in collaboration with the Department of Botany, Microbiology, Physiology and Zoology, Vijaygarh Jyotish Ray College, Kolkata
20.	2020	International Webinar (Frontiers in Biological Sciences, Chapter-IV) entitled "Covid-19: The Current Scenario"	Department of Microbiology St. Xavier's College Kolkata in collaboration with IQAC, St. Xavier's College
21.	2019	DBT STAR COLLEGE Sponsored One Day College Level Seminar entitled "Frontiers in Biomedical Research"	Department of Microbiology, Maulana Azad College, Kolkata
22.	2018	One Day International Seminar entitled "Life Science Research in Health and Disease"	Advanced Research Centre, Department of Microbiology, Lady Brabourne College, Kolkata
23.	2018	Workshop for U.G. Microbiology Teachers on B.Sc. syllabus in Microbiology (Hons. and Genl.) under CBCS system	University of Calcutta, Councils for Under Graduate Studies and Under Graduate Board of Studies in Microbiology
24.	2017	RUSA funded International Level Seminar entitled "Recent Trends in Microbiology"	Department of Microbiology, Ramakrishna Mission Vidyamandira
25.	2013	UGC-DSA sponsored National Seminar entitled "Advances in Molecular Regulation"	Department of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta

26.	2012	DST-PURSE sponsored National seminar entitled “Diabetes Research: Present Status and Future Prospects”	Department of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta, Kolkata
27.	2012	National Seminar entitled “Emerging Trends in Cell & Molecular Biology”	Department of Lifescience and Biotechnology, Jadavpur University
28.	2011	UGC-DSA sponsored Workshop on “Advanced Tools in Molecular Biology: Microscopy & Spectroscopy”	Department of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta, Kolkata
29.	2011	UGC-DSA sponsored National Symposium entitled “Probing Biology: <i>In vivo</i> , <i>in vitro</i> and <i>in silico</i> ”	Department of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta, Kolkata
30.	2008	National Seminar on “Modern Biology in Health and Disease”	Department of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta, Kolkata

FDP Attended:

Sl No	Year	Title	Organized By
1.	2025	Five Day National Level Online Faculty Development Program on ‘Discovering Indian Knowledge System – A Multidisciplinary Approach’	The Centre for Traditional Culture and Knowledge, Holy Cross College (Autonomous), Tiruchirappalli
2.	2020	International Faculty Development Online Certificate Course on ‘Basic Techniques in Microbiology’	Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Microbiologists Society, India and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janerio State University (UEZO), Rio de Janeiro, Brazil
3.	2020	International Faculty Development Online Certificate Course on ‘Medical Bacteriology’	Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Microbiologists Society, India and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janerio State University (UEZO), Brazil

Presentation:

Sl No	Year	Title	Organized By
1.	2019	One Day State Level Seminar entitled “Microbes in Our Life”	Department of Microbiology in association with Research and Guidance Cell, Vijaygarh Jyotish Ray College
2.	2010	International Symposium entitled “Modern Biology in 21st Century: Teaching and Research”	Department of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta
3.	2010	National Conference of Plant Physiology entitled “Physiological and Molecular Approaches for Crop Improvement under Changing Environment”	Department of Plant Physiology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi & Indian Society for Plant Physiology, New Delhi.
4.	2006	UGC Sponsored State Level Symposium entitled “Environmental and Industrial Aspects of Microbes in the New Millennium (EIAMNM)”,	BRSN College, University of Calcutta.

Publication:

Sl No	Year	Title (Journal/Book /Book Chapter/	Name as applicable	ISBN/ISSN
1.	2023	Gut Dysbiosis and Its Potential Impact on Immunomodulation	International journal of Bioinformatics and Biological Sciences	ISSN: 2319-5169
2.	2023	Polyhydroxyalkanoates and Their Implications for Sustainable Future.	Research Trends in Microbiology. Bhumi Publishing, India	ISBN: 978-93-88901-69-7
3.	2021	Decolourization of textile dye by bacteria isolated from Ganges water near Cossipore region, Kolkata	Journal of Innovation in Applied Research	eISSN: 2581-4206
4.	2021	Bioremediation: A prospective tool for alleviating environmental pollution.	Recent Approaches in Sustainable Agriculture Development and Food Security, Crop Management, Forestry, Food Technology and Environmentally Balanced Production Enhancement. Mahima Research Foundation and Social Welfare	ISBN: 978-81-943375-4-6
5.	2021	Studies on the effect of starvation on prolonged callus cultures and alterations in <i>SERK</i> gene expression during somatic embryogenesis in <i>Momordica charantia</i> Linn.	Plant Tissue Culture and Biotechnology	ISSN: 1817-3721
6.	2016	Role of SERK during somatic embryogenesis and its interaction with brassinosteroids	Somatic Embryogenesis in Ornamentals and Its Application. Springer India	ISBN: 978-81-322-2681-9
7.	2015	Cross adaptation to cadmium stress in <i>Plantago ovata</i> by pre-exposure to low gamma rays: effects on metallothionein and metal content	International Journal of Radiation Biology	ISSN: 0955-3002
8.	2015	Antioxidant activity and HPLC analysis of phenolic compounds during <i>in vitro</i> callus culture of <i>Plantago ovata</i> Forsk and effect of exogenous additives on accumulation of phenolic compounds.	Journal of the Science of Food and Agriculture	ISSN: 0022-5142
9.	2014	Molecular characterization, modeling and expression analysis of a <i>somatic embryogenesis receptor kinase (SERK)</i> gene in <i>Momordica charantia</i> L. during somatic embryogenesis.	Plant Cell Tissue and Organ Culture	ISSN: 0167-6857
10.	2013	Molecular Cloning, Modeling and Characterization of Type 2 Metallothionein from <i>Plantago ovata</i> Forsk.	Sequencing	ISSN: 2090-0325
11.	2013	Alterations in transcriptome and proteome on Metallothioneins	International Journal of Radiation Biology	ISSN: 0955-3002

		following oxidative stress induced by sublethal doses of cadmium and gamma rays in <i>Plantago ovata</i> .		
12.	2012	<i>In vitro</i> enhanced accumulation of polyphenols during somatic embryogenesis in <i>Plantago ovata</i> Forsk.	American Journal of Biopharmacology Biochemistry and Lifesciences	eISSN: 2166-126X
13.	2010	Identification of <i>Somatic Embryogenesis Receptor Kinase (SERK)</i> gene in <i>Plantago ovata</i> Forsk during early stages of embryogenesis.	Journal of Botanical Society of Bengal	ISSN: 0971-2976

Achievement

Session Chair and Evaluation of Oral Presentations in The International Conference on Biotechnology and Biological Sciences, BIOSPECTRUM 2023, organized by the department of Biotechnology, University of Engineering and Management, Kolkata on 18th November 2023.

Session Chair and Evaluation of Oral Presentations in The International Conference on Biotechnology and Biological Sciences, BIOSPECTRUM 2024, organized by the department of Biotechnology, University of Engineering and Management, Kolkata on 14th November 2024.

Acted as External Examiner (UG and PG):

Guru Nanak Institute of Pharmaceutical Science and Technology (Affiliated to MAKAUT), Kolkata
 St. Xavier's College, Kolkata
 Sister Nivedita University, Kolkata
 Institute of Genetic Engineering affiliated to Maulana Abul Kalam Azad University of Technology, Kolkata.

NCBI (GenBank) Submissions:

Momordica charantia somatic embryogenesis receptor kinase
 (*SERK*) gene, partial CDs
Talapatra S, Raychaudhuri S. Accession:
KC347724.1

Momordica charantia somatic embryogenesis receptor kinase
 (*SERK*) mRNA, complete CDs
Talapatra S, Raychaudhuri S. Accession:
JX863894.3

Plantago ovata Metallothionein type3 gene, partial CDs
 Ghoshal N, **Talapatra S**, Moulick A, Chakraborty A, Raychaudhuri SS. Accession:
JX560797.1

Plantago ovata Metallothionein 1 (MT1) gene, partial CDs
 Ghoshal N, **Talapatra S**, Moulick A, Chakraborty A, Raychaudhuri SS. Accession:
JN798189.1