

Dr. Sucharita Guin (Mitra)

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Objectives:

To gain experience in a well reputed Academic Institute or organization there are ample opportunities for me to expand my skills & capabilities & to shape myself as a capable & effective person.

Scholastic Record:

- Completed M.sc in Zoology (specialization in molecular biology), Kalyani University, 2022
- Ph.D in microbiology under Jadavpur University in 2018
- M.Sc in Biotechnology and Bioinformatics, University of Manipal, 2006.
- B.Sc in Zoology, University of Calcutta, 2004

Teaching Experience:

Total Teaching Experience: 7 years 5 month

Course taught: Undergraduate and Post graduate (Rabindra Bharati University)

Current engagement: Behala College from 2015 to till date

Dissertation:

Molecular and medical genetics in Syndromic diseases and thalassaemia diagnosis during 22.04.2006 to 22.05.2006.

Employment History:

- Engaged as a “State Aided College Teacher (SACT-I) in Behala College, department of Zoology from 2019 to till date.
- Engaged as a “Contractual Full Timer” in Behala College from 2018 in department of zoology
- Continuing as a “Part Time Teacher” in Behala College from 2015 in department of Zoology
- Engaged as a “Contractual Faculty” in Rabindra Bharati University from 2016 to till date.
- Engaged as a “Contractual Faculty” in Netaji Subhas Open University from 2018

Research engagement:

- Worked as a “**Research Assistant**” in National Institute of Cholera & Enteric Diseases, Kolkata, from 7th February, 2007 to 14th January, 2011.
- Joined as a senior research fellow in project named “Diarrheal diseases in infants and young children in developing countries (GEMS 1A)” from 15th January, 2011 to 30th April, 2014.
- Worked as SRF in project named “Gems Viral Eukaryotic pathogen “from 1st May, 2014 to 30th August,2015.

Technical experience during Research:

- Basic isolation and identification techniques to detect microorganism.
- Polymerase Chain Reaction (PCR)
- Gel electrophoresis
- ELISA (Enzyme Linked Immune Assay) test for viral and bacterial identification.
- Plasmid isolation, DNA extraction, Southern hybridization, Blotting techniques, PFGE, DOT-BLOT
- Cycle sequencing
- Chromatography technique
- Antimicrobial susceptibility testing (Antibiogram)

- API (Analytical Profile Index) for identified unknown organisms.

Seminar/Participation/Training programme:

1. Participated in “one day workshop on practical syllabus of Zoology Hons. Part-II Curriculum of University of Calcutta, 29th March, 2018, held in department of Zoology, C.U
2. Attained two-day national seminar and workshop on “Scientific Devices, Technology Applications and Community Linkage, on the 18th-19th of March, 2017, held in C.U
3. Participated in a seminar which was held on 8th February, 2017 at the department of zoology, university of Calcutta.
4. Engaged in “Laboratory Microbiology for Surveillance of Acute Diarrheal Diseases from 13-17 October, 2014, National Institute of Cholerae and Enteric Diseases (N.I.C.E.D) Kolkata.
5. Training on surveillance diseases, Kolkata during September, 2013.
6. Participated in “Global Food borne Infections Network Level I” Enteric diseases Training Programme convened under World Health Organization (WHO) held in March 2011, N.I.C.E.D, Kolkata.
7. Participated in N.I.C.E.D-ASM (American society for Microbiology) training programme in applied Bioinformatics course on molecular typing of bacteria strains on 22nd September to 1st October, 2008, Kolkata.
8. Participated in NICED-PULSENET training programme, Kolkata during 25-27th February 2008.
9. Participated in NICED-JICA domestic training programme on “Molecular Epidemiologist of Diarrhoeal Diseases with special reference to Cholera” at N.I.C.E.D, Kolkata during 12th November to 23rd 2007.

Publications:

- Sanjucta Dutta, M.Sc; **Sucharita Guin**, M. Sc; Santanu Ghosh , M. Sc; Gururaja P Pazhani, M. Sc, Ph.D; Krishnan Rajendran, M.Sc, Ph.D; Mihir K Bhattacharya, M.D; Yoshifumi Takeda, M.D, Ph.D; Gopinath Balakrish Nair, M.Sc, Ph.D; Thandavarayan Ramamurthy. Trends in the Prevalence of Diarrhoeagenic Escherichia Coli among Hospitalized Diarrhoeal Patients in Kolkata, India. PLOS ONE, February, 2013.

- Devarati Dutta, Goutam Chowdhury, Gururaja P. Pazhani, **Sucharita Guin**, Sanjucta Dutta, Santanu Ghosh, K. Rajendran, Ranjan K. Nandy, Asish K. Mukhopadhyay, Mihir K. Bhattacharya, Utpala Mitra, Yoshifumi Takeda, G. Balakrish Nair, and Thandavarayan Ramamurthy. *Vibrio cholerae* Non-O1, Non-O139 Serogroups and Cholera-like Diarrhea, Kolkata, India. EID, March. 2013.
- Dhira Rani Saha, **Sucharita Guin**, Rajendran Krishnan, Dhrubajyoti Nag, Hemanta Koley, Sumio Shinoda and Thandavarayan Ramamurthy. Inflammatory diarrhea due to enteroaggregative *Escherichia coli*: evidence from clinical and mice model studies. Gut Pathogens 2013
- *Vibrio fluvialis* in Patients with Diarrhea, Kolkata, India Goutam Chowdhury, Gururaja P. Pazhani, Devarati Dutta, **Sucharita Guin**, Sanjucta Dutta, Santanu Ghosh, Hidemasa Izumiya, Masahiro Asakura, Shinji Yamasaki, Yoshifumi Takeda, Eiji Arakawa, Haruo Watanabe, Asish K. Mukhopadhyay, Mihir K. Bhattacharya, K. Rajendran, Gopinath Balakrish Nair, and Thandavarayan Ramamurthy. *Vibrio fluvialis* in Patients with Diarrhea, Kolkata, India. EID, November, 2012
- Ghosh S, Pazhani GP, Chowdhury G, **Guin S**, Dutta S, Rajendran K, Bhattacharya MK, Takeda Y, Niyogi SK, Nair GB, Ramamurthy T. Genetic Characteristics and Changing Antimicrobial Resistance among Shigella spp Isolated from Hospitalized Diarrhoeal Patients in Kolkata, India. J Med Microbiol. 2011; 1460-1466.
- Sinha, A., S. SenGupta, **S. Guin**, S. Dutta, S. Ghosh, P. Mukherjee, A. K. Mukhopadhyay, T. Ramamurthy, Y. Takeda, T. Kurakawa, K. Nomoto, G. B. Nair, and R. K. Nandy (2011) Culture independent real-time PCR reveals extensive polymicrobial infections in hospitalized diarrhea cases in Kolkata, India.
- Zhi-Dong Jiang, Herbert L. DuPont, Eric L. Brown, Ranjan K. Nandy, Thandavaryan Ramamurthy, Anuradha Sinha, Santanu Ghosh, Sucharita **Guin**, Kaur Gurleen, Savio

Rodrigues, Jacklyn J. Chen, Robin McKenzie, and Robert Steffen⁸. Microbial Etiology of Travelers' Diarrhea in Mexico, Guatemala, and India: Importance of Enterotoxigenic *Bacteroides fragilis* and *Arcobacter* Species. *J. Clin. Microbiol.* Apr. 2010, p. 1417–1419.