

ACADEMIC PROFILE



DR. SUBHANKAR MUKHERJEE

Assistant Professor in Zoology (W.B.E.S.)

M.Sc., Ph.D.

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- **Specialization:** Microbiology, Genetics, Cell Biology, Biochemistry, Molecular Biology, Biotechnology, Bioinformatics.
- **Date of joining in this college:** 27.09.2019
- **Total teaching experience in college level:** 6 years
- **Area of research:** Clinical and Molecular Microbiology, Antimicrobial resistance (AMR), Neonatal infections, Nosocomial infections, Community-acquired infections.
- **Title of Ph.D. thesis (if any):** A Study on Virulence and Carbapenem Resistance in *Klebsiella pneumoniae* Isolated from Septicemic Neonates
- **Research guidance (if any):** Nil
- **Research projects [completed / ongoing] (if any):** Nil
- **List of publications:**

A. Published papers in Journals:

1. Mukherjee S, Bhadury P, Mitra S, Naha S, Saha B, Dutta S, Basu S. **2025**. Correction for Mukherjee et al., "Hypervirulent *Klebsiella pneumoniae* Causing Neonatal Bloodstream Infections: Emergence of NDM-1-Producing Hypervirulent ST11-K25 and ST15-K54 Strains Possessing pLVPK-Associated Markers" Microbiol Spectr 13:e00346-25. doi: 10.1128/spectrum.00346-25. [**Impact Factor: 4.1**]
2. Mukherjee S, Bhadury P, Mitra S, Naha S, Saha B, Dutta S, Basu S. **2023**. Hypervirulent *Klebsiella pneumoniae* Causing Neonatal Bloodstream Infections: Emergence of NDM-1-Producing Hypervirulent ST11-K2 and ST15-K54 Strains Possessing pLVPK-Associated Markers. Microbiol Spectr 11:e0412122. doi: 10.1128/spectrum.04121-22. [**Impact Factor: 9.043**]

3. **Mukherjee S**, Mitra S, Dutta S, Basu S. **2021**. Neonatal Sepsis: The Impact of Carbapenem-Resistant and Hypervirulent *Klebsiella pneumoniae*. Front Med (Lausanne) 8:634349. doi: 10.3389/fmed.2021.634349. [**Impact factor: 5.091**]
4. Naha S, Sands K, **Mukherjee S**, Saha B, Dutta S, Basu S. **2021**. OXA-181-Like Carbapenemases in *Klebsiella pneumoniae* ST14, ST15, ST23, ST48, and ST231 from Septicemic Neonates: Coexistence with NDM-5, Resistome, Transmissibility, and Genome Diversity. mSphere 6:e01156-20. [https://doi: 10.1128/mSphere.01156-20](https://doi.org/10.1128/mSphere.01156-20). [**Impact factor: 5.029**]
5. **Mukherjee S**, Naha S, Bhadury P, Saha B, Dutta M, Dutta S, Basu S. **2020**. Emergence of OXA-232-producing hypervirulent *Klebsiella pneumoniae* ST23 causing neonatal sepsis. J Antimicrob Chemother 75:2004-2006. doi: 10.1093/jac/dkaa080. [**Impact factor: 5.79**]
6. Naha S, Sands K, **Mukherjee S**, Roy C, Rameez MJ, Saha B, Dutta S, Walsh TR, Basu S. **2020**. KPC-2-producing *Klebsiella pneumoniae* ST147 in a neonatal unit: Clonal isolates with differences in colistin susceptibility attributed to AcrAB-TolC pump. Int J Antimicrob Agents 55:105903. doi: 10.1016/j.ijantimicag.2020.105903. [**Impact factor: 5.283**]
7. **Mukherjee S**, Bhattacharjee A, Naha S, Majumdar T, Debbarma SK, Kaur H, Dutta S, Basu S. **2019**. Molecular characterization of NDM-1-producing *Klebsiella pneumoniae* ST29, ST347, ST1224, and ST2558 causing sepsis in neonates in a tertiary care hospital of North-East India. Infect Genet Evol 69:166-175. doi: 10.1016/j.meegid.2019.01.024. [**Impact factor: 4.393**]

B. Published papers in Seminars/Symposia/Conferences: Nil

C. Published Books / Chapters in Books:

1. **Mukherjee S**. Emergence of a D614G mutation in the spike protein of 2019 novel coronavirus, a Trojan horse. Manabjain - A Dossier of COVID-19 Pandemic. **2020**. 2(27); 205-210 [[ISBN: 978-81-8211-162-2](#)]
2. Mukherjee P and **Mukherjee S**. Occurrence of a particular double mutation (nsp12:P323L and S:D614G) in novel coronavirus (2019-nCoV): A plausible cause of genomic divergence. COVID-19 PANDEMIC AND ITS IMPACT ON BIODIVERSITY. **2022**. 7; 76-85. DOI: 10.25215/9394727930 [[ISBN: 978-93-94727-93-9](#)]

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D. Participation in Seminars/Symposia/Conferences/Workshops:

Title of the invited lecture /paper presented (oral/poster)	Title of Conference /Seminar with date	Organized by	Level
Carbapenem-resistant hypervirulent <i>Klebsiella pneumoniae</i> (CR-hvKP) strains of diverse sequence types causing sepsis in neonates: the double-edged sword	31st European Congress of Clinical Microbiology and Infectious Diseases, Vienna, Austria, Online-mode, 9th – 12th July, 2021	European Congress of Clinical Microbiology & Infectious Diseases (ECCMID)	International
Oxacillinase-48-like (OXA-48) carbapenemases along with New Delhi metallo- β -lactamase in a neonatal unit	30th European Congress of Clinical Microbiology and Infectious Diseases, Paris, France, online-mode, 18th – 21st April, 2020	European Congress of Clinical Microbiology & Infectious Diseases (ECCMID)	International
Genomic insight of <i>Klebsiella pneumoniae</i> harboring multiple carbapenemases isolated from blood of septicemic neonates	9th Nextgen Genomics, Biology, Bioinformatics and Technologies Conference, Mumbai, India, 30th September – 2nd October, 2019.	SciGenom Research Foundation (SGRF)	National
Colistin resistance in carbapenem-resistant <i>Klebsiella pneumoniae</i> from septicemic neonates: efflux pumps and two component systems	29th European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands, 13th – 16th April, 2019	European Congress of Clinical Microbiology & Infectious Diseases (ECCMID)	International
Incidence of <i>bla</i> _{NDM-1} in neonatal septicemic <i>Klebsiella pneumoniae</i> belonging to different sequence types (ST347, ST29 and ST2558) from North-eastern region of India	International conference on Antimicrobial resistance, Kolkata, India, 16th – 17th February, 2018.	Jointly organized by the ICMR-National Institute of Cholera and Enteric Diseases (ICMR-NICED) and National Institute of Pharmaceutical Education and Research (NIPER)	International
KPC-2-Producing <i>Klebsiella pneumoniae</i> in A Neonatal Unit: Clonal Isolates with Differences in Colistin Resistance	Microbiology in the new Millennium: from Molecules to Communities, Kolkata, India, 27th – 31st October, 2017	Bose Institute, Kolkata, India	National

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➤ **Participation in OP/RC/FIP/FDP:**

Name of the Course	Place	Duration	Sponsoring Agency
Refresher Course on Emerging Trends in Natural and Biological Sciences	HRDC, University of North Bengal	09.09.2022 to 22.09.2022	UGC
Faculty Induction Programme	HRDC, Aligarh Muslim University	15.11.2023 to 19.12.2023	UGC
NEP 2020 Orientation Programme on Orientation and Sensitization under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)	HRDC, Aligarh Muslim University	20.02.2024 to 28.02.2024	UGC-MMTTC

➤ **Membership of Learned Societies/ Editorial Boards, etc. (if any):**

1. Member of American Society for Microbiology
2. Review Editor of Frontiers in Microbiology
3. Reviewer at Frontiers in Medicine
4. Reviewer at Frontiers in Cellular and Infection Microbiology
5. Reviewer at Access Microbiology

➤ **Patents (if any):** Nil

➤ **Awards (if any):**

1. Qualified Joint CSIR-UGC National Eligibility Test (NET) twice [2012 (25th rank) and 2014 (38th rank)].

➤ **Other notable activities (if any):**

1. Diverse academic and administrative activities.
2. Pastoral care and mentorship.
3. Collaborating with other teachers and research institutes.
4. Implementing new teaching methods.
5. Encouraging critical thinking.
6. Related to social work. Etc.
