

Short CV



Name: Dr. Suprabhat Mukherjee

Designation: Assistant Professor (Biochemistry & Molecular Biology)
& Coordinator

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- **Qualifications:**

B.Sc (Hons.) Biochemistry (2007), University of Burdwan

M.Sc Biochemistry (2009), University of Burdwan

Ph.D. in Zoology (2017), Visva-Bharati (A Central University).

- **Experience:** Total: 11 years and 02 months

Postdoctoral: Total: 1 year and 11 months

EMBO visiting fellow at INSERM, Paris, France (2017)

Dr. D.S. Kothari at North-Eastern Hill University, Shillong, Meghalaya (2018)

Teaching experience: 2 year and 08 months

➤ Assistant Professor at Department of Animal Science, Kazi Nazrul University, Asansol-713 340, West Bengal (Teaching Subjects: Biochemistry, Cell & Molecular Biology, Molecular Parasitology & Immunology, Biophysics and Bioinformatics, Animal Biotechnology) (22.11.2018- Till Date)

➤ (Biochemistry and Immunology for the special classes for the undergraduate and postgraduate students at Department of Zoology, Visva-Bharati (A Central University), Santiniketan-731 235, West Bengal.

Area of Interest: Biochemistry and Immunobiology of Infectious and Inflammatory diseases.

- **Research:**

Doctoral study: *Role of Toll- like receptor 4 mediated signaling pathway in inducing immune response in bancroftian filariasis*

Postdoctoral study:

1. *Regulation of human dendritic cells and T cell responses by filarial surface antigens (INSERM, France)*
2. *Screening and molecular investigation on the immunopharmacological properties of novel phytochemicals and their derivatives for treating infectious and inflammatory diseases (Visva-Bharati, India)*
3. *Exploring the mechanistic insights of amelioration of colitis associated inflammatory pathologies by a gut associated cestode, Hymenolepis diminuta (North-Eastern Hill University, India)*

Present Research:

Mechanism of immunopathogenesis of Ulcerative Colitis and amelioration by employing novel therapeutic formulations

Publication highlights: 44 papers; 15 Book Chapters; 24 database submission; Citation: 822; h-index:14; i10-index:25

Fellowships/Awards:

- Recipient of the Award of Indian National Science Academy (INSA)- Visiting Scientist-2020 from INSA, New Delhi, India.
- Recipient of International Travel Grant Award for Non-ICMR Scientists (2018) from Indian Council of Medical Research (ICMR), Ministry of Health & Family Welfare, Govt. of India to attend 14th International Congress of Parasitology (2018), EXCO, Daegu, South Korea.
- Awarded with International Travel Support (2018) by Science & Engineering Research Board (SERB), Department of Science & Technology (DST), Govt. of India.
- Recipient of UGC-Dr. D.S. Kothari Postdoctoral Fellowship from University Grants Commission (UGC), Govt. of India (2017-2018).
- Recipient of the Award of European Molecular Biology Organization (EMBO) visiting Fellowship-2017 to pursue research at Institut National de la Santé et de la Recherche Médicale (INSERM), (French National Institute of Health and Medical Research), Paris, France.
- Recipient of the “Zydus Lipalyn” Award for Best Poster Presentation in the 5th International Conference on Molecular Signaling: Basics to Applications (2015) at AU-KBC Research Centre, Anna University, Chennai, Tamil Nadu, India.
- Recipient of Young Scientist Award for Best Oral Presentation in the Young Scientist Award Session of International Conference on Molecular Signaling (2015) at North-Eastern Hill University, Shillong, Meghalaya, India.
- Recipient of UGC-BSR Senior Research Fellowship for Meritorious Students (2014) awarded by University Grants Commission (UGC), Govt. of India.

- Recipient of International Travel Grant for Non-ICMR Scientists (2014) awarded by Indian Council of Medical Research (ICMR), Govt. of India to attend 6th ASEAN Congress of Tropical Medicine Parasitology (ACTMP), Kuala Lumpur, Malaysia.
 - Qualified and Ranked 6th in State Eligibility Test (SET) North-East region -2014 in Life Sciences conducted by State Level Eligibility Test Commission, N-E Region, India.
 - Qualified in State Eligibility Test (SET)-2013 in Life Sciences conducted by West Bengal College Service Commission, Govt. of West Bengal, India.
 - Recipient of UGC-BSR Junior Research Fellowship for Meritorious Students (2012) awarded by University Grants Commission (UGC), Govt. of India.
 - Ranked 2nd position in M.Sc. Biochemistry (2009), University of Burdwan.
 - Ranked 1st position in B.Sc. Biochemistry (Hons) (2007), University of Burdwan.
- **Selected Publications:** (*Selected Eight*)

Chowdhury, A., Das, N.C. Patra, R., & **Mukherjee, S.***. (2021). In silico analyses on the comparative sensing of SARS-CoV-2 mRNA by the intracellular TLRs of human. *Journal of Medical Virology*. *Corresponding author. IF: 2.021 DOI: 10.1002/jmv.26776

Das, N.C., Patra, R., Sen Gupta, P.S., Ghosh, P., Bhattacharya, M., Rana, M.K., & **Mukherjee, S.***. (2021). Designing of a novel multi-epitope peptide-based vaccine against *Brugia malayi*: an *in silico* approach. *Infection, Genetics and Evolution*. 87: 104633 *Corresponding author. IF: 2.773 DOI: 10.1016/j.meegid.2020.104633

Chowdhury, A. & **Mukherjee, S.***. (2020). In silico studies on the comparative characterization of the interactions of SARS-CoV-2 spike glycoprotein with ACE-2 receptor homologs and human TLRs. *Journal of Medical Virology*. 92: 2105-2113. DOI: 10.1002/jmv.25987 IF: 2.021 *Corresponding author & Equally contributed as first author. Article is also displayed in the repository of World Health Organization (WHO). Figure from the article is also featured as back cover image (<https://onlinelibrary.wiley.com/toc/10969071/2020/92/10>)

Mukherjee, S., Joardar, N., Sinha Babu, S.P. (2020). Exploring the homolog of a novel proinflammatory microfilarial sheath protein (MfP) of *Wuchereria bancrofti* in adult stage bovine filarial parasite *Setaria cervi*. *Journal of Helminthology* (doi.org/10.1017/S0022149X18001050).

Mukherjee, S., Karnam, A., Das, M., Sinha Babu, S.P. & Bayry, J. (2019). *Wuchereria bancrofti* filaria activates human dendritic cells and polarizes regulatory T cells via Toll-like receptor 4. *Nature Communications Biology*. 2:169. DOI: <https://doi.org/10.1038/s42003-019-0392-8>

Debnath, U., **Mukherjee, S.***, Joardar, N., Sinha Babu, S.P., Jana, K., & Misra, A.K. (2019). Aryl quinolinyl hydrazone derivatives as anti-inflammatory agents that

inhibit TLR4 activation in the macrophages. *European Journal of Pharmaceutical Science*. 134: 102-115. IF: 3.786 ***Equally contributed as first author.**

Mukherjee, S., Joardar, N., Mondal, S., Schiefer, A., Hoerauf, A., Pfarr, K., Sinha Babu, S.P. (2018). Quinolone-fused cyclic sulfonamide as a novel benign antifilarial agent. *Nature Scientific Reports*. 8:12073. DOI: 10.1038/s41598-018-30610-7

Mukherjee, S., Mukherjee, Sa., Maiti, T.K., Bhattacharya, S., & Sinha Babu, S.P. (2017). A novel ligand of toll-like receptor 4 from the sheath of *Wuchereria bancrofti* microfilaria induces proinflammatory response in macrophages. *Journal of Infectious Diseases*. 215: 954-965.

IRINS: <http://knu.irins.org/profile/122359>

Google scholar ID: <https://scholar.google.co.in/citations?user=e28tNpoAAAAJ&hl=en>

ResearchGate link: https://www.researchgate.net/profile/Suprabhat_Mukherjee

Orcid ID: <https://orcid.org/0000-0002-5709-9190>

Personal webpage: <https://babaimbc.wixsite.com/suprabhat-mukherjee>

Scopus ID: [55357135900](https://orcid.org/0000-0002-5709-9190)
