SHILPA CHATTERJEE

Doctor Of Philosophy
(Molecular Biology)

Chandannagar, Hooghly, India, 712136

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To pursue research in a scientific community which would help me develop my skills and acquire knowledge in the field of Molecular biology, Clinical Virology, Pharmacy, and related areas to serve mankind.

Skills

- **Mammalian cell culture:** Cell culture assay, antiviral assay, Plaque assay, PRNT, Cytotoxicity assay
- **Molecular biology:** PCR (Traditional & digital), Western Blot, Immunofluorescence, ELISA, MAT, IFA, Primer design, Gene cloning, microbial culture
- **Animal work:** Antiviral model and virus infection model, Knockout mouse model.
- **Molecular modeling study:** Drug design and peptide design, Hands on Molecular simulation techniques using both commercial and open-source packages. Schrödinger 2016-2018, Lig-Builder, Auto Dock.
- **Image Software:** ImageJ, Adobe.
- **Computational Skill:** Statistical analysis, SPSS, graph pad prism, MedCalc, MS Office.

Work History

Assistant Professor (Pharmacology)

2023-09 - current

Adamas University, Kolkata

Works as an assistant professor in pharmacology (Research + Teaching) in the department of Pharmaceutical Technology at Adamas University.

Relationship Executive

2014-03 - 2015-02

CryoViva Biosafe Pvt. Ltd., Kolkata

Worked as a relationship executive at CryoViva Biosafe Stem cell Bank company where I applied my molecular biology knowledge to educate the clients on stem cell banking.

Education

2019-03 - 2023-02

Ph.D.: Science (Molecular Biology)

Chosun University - South Korea

2016-08 - 2018-07

Master of Pharmacy: Pharmacology

NSHM Knowledge Campus - Kolkata

Grade - 8.77/10

2010-08 - 2014-07

Bachelor of Pharmacy: Pharmaceutical Technology

B.C. Roy College of Pharmacy & A.H.S - Durgapur, West Bengal, India

Grade - 8.61/10

Additional Details

- **PROJECT participation**
- Towards development of highly sensitive Q-PCR primers for the detection of ZIKA and Dengue virus
- Design of suitable ligand for the treatment of SFTS: In-vivo and In-vitro
- To identify suitable target for the treatment of SARS-COV-2: In-vivo and In-vitro
- Pharmacophore design and hit identification for cancer induced pain management: a COX-1 inhibitor

- **TALKS and PRESENTATIONS**
- **Abstract:** Towards Pharmacophore Mapping of a Set of Plant Derived Anti-Inflammatory Compound through AutoDock Vina. International Seminar on "Natural Product research" 2013 OMICS Group of Conference, Pharmacognosy, Hyderabad
- **Abstract:** In-Silico Screening, Molecular Docking & Pharmacological study For the Identification of New COX-1 Inhibitors, International Seminar on "Current Scenario in Pharmaceutical Technology & Healthcare"- A Move towards Patient- Centric Approach; iNatconph, 2018, Kolkata, India

- **WORKSHOPS and SEMINARS**
- Annual Conference of Indian Pharmacological Society, "Revisiting Pharmacology as a Translational Discipline" – 2018, West Bengal.
- Refresher course attended: Pharmaceutical Up gradation Course - PCI refreshers course - Duration 2 days
- Workshop "Use of Animals in Biomedical Research and Ethical Issues Involved" – W.B University of Animal & Fishery Sciences - Duration 1 day

Primary Details

Phone No. – 918902475658, 919073969761

Nationality: Indian, **Sex**: Female, **Year of Birth**: 1992

Membership: INDIAN PHARMACEUTICAL ASSOCIATION (IPA)

Languages

Proficient - English, Bengali, Hindi,
Intermediate - Hangul (speaking, reading, and writing)

Publications

1. Chatterjee RP, Chatterjee A, Ansari S, **Chatterjee S**, Chatterjee S, Chakraborty N (**2024**) Molecular identification and phylogenetic analysis of chikungunya virus among dengue-negative patients in Kolkata, India. PLoS ONE 19(4): e0301644. https://doi.org/10.1371/journal.pone.0301644
2. **Chatterjee Shilpa**, Kim Choon-Me, Kim Dong-Min. et al. (**2023**). Coinfection with Severe Fever with Thrombocytopenia Syndrome and Scrub Typhus in Korea, Open Forum Infectious Diseases, Volume 10, Issue 10, October, ofad377, https://doi.org/10.1093/ofid/ofad377
3. Chatterjee RP, **Chatterjee S**, Sikdar S, Chowdhury A, Bhattacharjee D, Majumder T, Mitra N, Pramanik B, Das B, Ghosh RR. Impact of Serum Pro-calcitonin Level Among SARS-CoV-2 Infected Patients: Emphasizing on A Medullary Thyroid Cancer Survivor in Kolkata, India. SVOA Microbiology **2023**, 4:2, 42-47. https://doi.org/10.58624/SVOAMB.2023.04.030
4. Chatterjee, R. P., **Chatterjee, S.**, Pal, S., Das, B., Mitra, N., & Ghosh, R. R. (**2023**). A Retrospective Assessment of Male Sexual Dysfunction in COVID-19 Infected Patients: A Witness in Kolkata, India. *European Journal of Medical and Health Sciences*, *5*(3), 22–25. https://doi.org/10.24018/ejmed.2023.5.3.1451
5. **Chatterjee, S.,** Maity, A., Sen, D. (**2023**). Recent Insight of the Emerging Severe Fever with Thrombocytopenia Syndrome Virus: Drug Discovery, Therapeutic Options, and Limitations. In: Kar, S., Leszczynski, J. (eds) Current Trends in Computational Modeling for Drug Discovery. Challenges and Advances in Computational Chemistry and Physics, vol 35. Springer, Cham. https://doi.org/10.1007/978-3-031-33871-7_7
6. **Chatterjee, S.,** Chatterjee, R.P. (**2023**). Insights into the Neuro-Pharmacological Treatment of Schizophrenia: Past, Present, and Future. In: Chatterjee, I. (eds) Cognizance of Schizophrenia: A Profound Insight into the Psyche. Springer, Singapore. https://doi.org/10.1007/978-981-19-7022-1_8
7. Chatterjee I., **Chatterjee S.** (**2023**). Investigating the symptomatic and morphological changes in the brain based on pre- and post-treatment: A critical

review from clinical to neuroimaging studies on schizophrenia. IBRO Reports 14(2):366-374. DOI: 10.1016/j.ibneur.2023.03.008

8. Chatterjee, R. P., **Chatterjee, S.**, Sikdar, S., Das, B., & Ray Ghosh, R. (**2023**). Prevalence of Chikungunya and Scrub Typhus Coinfection among Dengue Negative Patients in Kolkata, India-A Newly Emerging Public Health Hazard. *European Journal of Medical and Health Sciences*, *5*(2), 5–11. https://doi.org/10.24018/ejmed.2023.5.2.1598
9. Kim, DM., Yu, B.J., Kim, D.Y. et al. (**2023**). Clinically differential diagnosis of human granulocytic anaplasmosis and severe fever with thrombocytopenia syndrome. Sci Rep 13, 6837. https://doi.org/10.1038/s41598-023-32061-1
10. **Chatterjee, S.,** Kim, CM., Lee, Y.M. et al. (2022). Whole-genome analysis and mutation pattern of SARS-CoV-2 during first and second wave outbreak in Gwangju, Republic of Korea. Sci Rep 12, 11354. https://doi.org/10.1038/s41598-022-14989-y
11. Maity, A., Sardar, S., **Chatterjee, S.,** Bala, N. N., Debnath, S., & Sen, D. (2022). De-Novo Design of Hits Against New Delhi Metallo-β-Lactamase Enzyme. International Journal of Quantitative Structure-Property Relationships (IJQSPR), 7(2), 1-13. DOI: 10.4018/IJQSPR.290010
12. Chatterjee RP, Sikdar S, **Chatterjee S**, Chowdhury M, Das B, Ghosh RR. "Incidence of Human Leptospirosis among Scrub Typhus and Chikungunya Negative Children in West Bengal, India, 2022". SVOA Paediatrics 2022, 1:4, 101-105. DOI: https://doi.org/10.58624/SVOAPD.2022.01.018
13. Rajendra Prasad C, **Shilpa C**, Suvendu P, and Reena Ray G. (2022). Rapid Declination of Influenza Virus Infection After SARS-CoV-2 Outbreak in Kolkata, India: A Significant Risk to the Paediatric Population. Res PediatrNeonatol. 6(4). RPN. 000644. https://doi.org/10.31031/RPN.2022.06.000644
14. **Chatterjee, S**., Kim, CM. & Kim, DM. (2021). Potential efficacy of existing drug molecules against severe fever with thrombocytopenia syndrome virus: an in-silico study. Sci Rep 11, 20857. https://doi.org/10.1038/s41598-021-00294-7
15. **Chatterjee, S**., Kim, CM., Yun, N. et al. (2021). Molecular detection and identification of Culex flavivirus in mosquito species from Jeju, Republic of Korea. Virol J 18, 150. https://doi.org/10.1186/s12985-021-01618-9
16. **Shilpa Chatterjee**, Arindam Maity, Suchana Chowdhury, Md Ataul Islam, Ravi K. Muttinini & Debanjan Sen. (2021). In silico analysis and identification of promising hits against 2019 novel coronavirus 3C-like main protease enzyme, Journal of Biomolecular Structure and Dynamics, 39:14, 5290-5303.

Place: Chandannagar
Date: 15-10-2024 **Shilpa Chatterjee**