

## 2022-2023 Research Publication

- Sarkar, A., & **Panja, A. S.** (2022). Stress adaptation signature into the functional units of spike, envelope, membrane protein and ssRNA of SARS-CoV-2. *Molecular Biology Research Communications*, 11(4), 155.
- **Bandyopadhyay, B.** (2022). Role Of Codon Biasness And Amino Acids Preference In Microbial Adaptation Through The Ages. *Pharmaco-Biotechnology And Nanotechnology: Therapeutic Applications And Strategies*, 188.
- Sarkar, A., Santra, D., & **Panja, A. S.** (2022). Immunoinformatics and MD-simulation data suggest that Omicron spike epitopes are more interacting to IgG via better MHC class-II recognition than Delta variant.
- Kabiraj, A., Laha, A., **Panja, A. S.**, & Bandopadhyay, R. (2023). In silico comparative structural and functional analysis of arsenite methyltransferase from bacteria, fungi, fishes, birds, and mammals. *Journal of Genetic Engineering and Biotechnology*, 21(1), 1-11.
- Laha, A., Sarkar, A., **Panja, A. S.**, & Bandopadhyay, R. (2023). Screening of Prospective Antiallergic Compound as FcεRI Inhibitors and Its Antiallergic Efficacy Through Immunoinformatics Approaches. *Molecular Biotechnology*, 1-8.
- Sarkar, A., Roy, A., Bndyopadhyay, B., & **Panja, A. S.** (2022). Structural Deviation and Identification of Novel Inhibitor of Sars-Cov-2 Spike Protein through Molecular Docking; an Insilico Clue. *J West Bengal Univ Health Sci*, 3(2), 31-39.
- Dutta, B., Nigam, V. K., **Panja, A. S.**, Shrivastava, S., & Bandopadhyay, R. (2023). Statistical optimisation of esterase from *Salinicoccus roseus* strain RF1H and its potential application in

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- **Chowdhury, D. R.**, Chattopadhyay, S. K., & **Roy, S.** (2022). Isolation and Partial Characterization of Bioactive Components of Endophytic Fungi *Penicillium singorense*, Isolated from Two Indian Medicinal Plants: *Calotropis procera* and *Catharanthus roseus*. *American Journal of Microbiological Research*, 10(3), 84-93.
- Santra, D., & **Maiti, S.** (2022). Molecular dynamic simulation suggests stronger interaction of Omicron-spike with ACE2 than wild but weaker than Delta SARS-CoV-2 can be blocked by engineered S1-RBD fraction. *Structural Chemistry*, 33(5), 1755-1769.
- **Banerjee, A.**, Kanwar, M., Santra, D., & **Maiti, S.** (2022). Global conserved RBD fraction of SARS-CoV-2 S-protein with T500S mutation in silico significantly blocks ACE2 and rejects viral spike. *Translational Medicine Communications*, 7(1), 1-11.
- **Maiti, S.**, **Banerjee, A.**, & Kanwar, M. (2022). Effects of theaflavin-gallate in-silico binding with different proteins of SARS-CoV-2 and host inflammation and vasoregulations referring an experimental rat-lung injury. *Phytomedicine Plus*, 2(2), 100237.

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