

Dr. Chandrajit Lahiri

Position: Senior Lecturer  
E-Mail: chandrajitl@sunway.edu.my  
Office Extension: 7174



---

**Education:**

Ph.D. Molecular Microbiology, Bose Institute, Jadavpur University, Kolkata, India

M.Sc. Biochemistry, University of Calcutta, Kolkata, India

B.S.c. Chemistry Honours, University of Calcutta, Kolkata, India

**Teaching:**

BIO2024 Biochemistry

BIO3144 Bioinformatics

**Brief Employment History:**

Basudha - Biotechnology for Conservation, Kolkata, India: Visiting Scientist in Systems Biology

Institute of Mathematical Sciences, Chennai, India: Visiting Scientist in Computational Biology

Karunya University, Coimbatore, India: Associate Professor in Bioinformatics

Technical University of Munich, Freising, Germany: Erasmus Mundus Visiting Fellow in Microbiology

Indian Institute of Science, Bangalore, India: Fast Track Young Scientist in Microbiology

**Research Interests:**

My major research interests are in the area of systems biology of various existing and emerging infectious and idiopathic diseases with a focus in understanding the indispensable proteins responsible for their virulence and pathology. To this end, a follow-up into the structure-function relationship of those proteins involved and their molecular evolution also add up.

**Selected Publications:**

1. Pan, A.<sup>#</sup>, **Lahiri, C.<sup>#</sup>**, Rajendiran, A. and Shanmugham, B. Computational analysis of protein interaction networks for infectious diseases. **Briefings in Bioinformatics, Oxford University Press**, (FIRST PUBLISHED ONLINE ON 10th AUGUST, 2015; 10.1093/bib/bbv059), 2015.
2. **Lahiri, C.\*** Disease complexity – A bird’s eye view. **Journal of Infectious Diseases Therapy, Omics Publication**, 3:4 from World Conference on Infectious Diseases, London, UK, August 10-12, 2015.
3. **Lahiri, C.\***, Pawar, S., Sabarinathan, R., Ashraf, I., Chand Y. and Chakravorty, D. Interactome analyses of *Salmonella* Pathogenicity Islands Reveal SicA Indispensable for Virulence. **Journal of Theoretical Biology, Elsevier Publication**, 363: 188-197, 2014.
4. Sivakumar, D., **Lahiri, C.\*** and Chakravorty, D. Computational studies on histidine kinase protein BaeS to target multi-drug resistant *Salmonella*. **Medicinal Chemistry Research, Springer Publication**, 22 (4):1804–1811, 2013.
5. **Chandrajit Lahiri\***, Pawar Shrikant, Radhakrishnan Sabarinathan, M Izhar Ashraf and Dipshikha Chakravorty. Identifying indispensable proteins of the Type III secretion systems of *Salmonella enterica* serovar Typhimurium strain LT2. **BMC Bioinformatics** 13 (Suppl 12):A10 from 11th Annual UT-ORNL-KBRIN Bioinformatics Summit 2012, Louisville, KY, USA, 30 March - 1 April 2012.
6. Indhuja, T., Nayak, A. N. and **Lahiri, C. \*** Molecular Interaction map of *Acinetobacter boumannii* complete genome to identify the unique pathways responsible for many diseases and its infection 3rd International Conference on Bioinformatics and Systems biology (INCOBS 2012), Annamalai University, Chidambaram, Tamil Nadu, India, February 16-18, 2012.
7. **Lahiri, C.\***, Ashraf, I. and Sabarinathan, R. Delineating signaling network from cancer related pathways ICCS ‘11 (International Conference on Complex Systems), Boston, MA, USA, June 26 – July 1, 2011.
8. **Lahiri, C.**, Mandal, S., Ghosh, W., Dam, B. and Roy, P. Sulfur oxidation gene cluster, soxSRT-soxVWXYZABCD, essential for chemolithotrophic oxidation of thiosulfate and tetrathionate by *Pseudomonas salicylatoxidans* KCT001. **Current Microbiology, Elsevier Publication** 52, 267-273, 2006.
9. Mukhopadhyaya, P.N., Deb, C., **Lahiri, C.** and Roy, P. A soxA gene, encoding a diheme cytochrome c, and a sox locus, essential for sulfur oxidation in a new sulfur lithotrophic bacterium, **Journal of Bacteriology, American Society for Microbiology Publication**, 182, 4278-4287, 2000.

\* Indicates Corresponding Author, # Indicates Joint Authorship