

Anindya Biswas, PhD.



Personal

Date of Birth	28 th February, 1987
Nationality	Indian
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Research interests

Molecular plant-microbe interaction, bacterial iron homeostasis, bacterial stress response, protein chemistry, DNA-protein interaction.

Teaching experiences

November 2021 - present	Assistant Professor Department of Botany, Visva-Bharati, Santiniketan.
August 2020 – November 2021	DST-INSPIRE Faculty Department of Microbiology, University of Burdwan, West Bengal.
June 2016- June 2017	Guest lecturer P.G. Department of Botany, Hooghly Mohsin College, West Bengal.

Research experiences

August 2020 – November 2021	DST-INSPIRE Faculty Department of Microbiology, University of Burdwan, West Bengal.
July 2017- June 2020	DBT Post-doctoral Research Associate Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad.
June 2011-June 2017	Doctoral student , Bose Institute, Kolkata.

Education

June 2011 - June 2017	PhD in Biochemistry , Bose Institute (University of Calcutta). Thesis: Studies on the DNA-binding domain of the immunity repressor of a Staphylococcal phage $\Phi 11$. Supervisor: Prof. Subrata Sau, Bose Institute, Kolkata (India)
August 2008 - August 2010	M.Sc. in Botany , specialization in Mycology and Plant pathology . Visva-Bharati University, India (<i>secured First Class 6th Rank</i>)
July 2005 - June 2008	B.Sc. in Botany (Honours), Chemistry, Zoology . University of Kalyani, India (<i>secured First Class 2nd Rank</i>)

Achievements

2020	DST-INSPIRE Faculty Fellowship, DST, Govt. of India.
2017	DBT Research Associateship, Department of Biotechnology, Govt. of India.
2017	National Postdoctoral Fellowship (N-PDF), DST, Govt. of India (Declined).

Key publications:

1. Verma R K*, **Biswas A***, Kakkar A, Lomada S K, Pradhan B B and Chatterjee S (2020) A Bacteriophytochrome Mediates Interplay between Light Sensing and the Second Messenger Cyclic Di-GMP to Control Social Behavior and Virulence. *Cell Reports*. 32(13): 108202. **(I.F.: 9.423)**
[* *Equal Contribution as co-first author*]
2. **Biswas A**, Ghosh S, Sinha D, Dutta A, Seal S, Bagchi A and Sau S (2019) Dimerization ability, denaturation mechanism and stability of a staphylococcal phage repressor and its two domains. *Int. J Biol. Macromol.* 124: 903-914. **(I.F.: 6.953)**
3. Ali A, **Biswas A** and Pal M (2018) HSF1 mediated TNF α production during proteotoxic stress response pioneers proinflammatory signal in human cells. *FASEB J*. fj-201801482R. **(I.F.: 4.966)**
4. Jana S, Jana J, Patra K, Mondal S, Bhat J, Sarkar A, Sengupta P, **Biswas A**, Mukherjee M, Tripathi S, Gangwal R, Sangamwar A, Mukherjee G, Bhattacharjee S, Mandal D P, Chatterjee S (2017) LINC RNA00273 promotes cancer metastasis and its G-Quadruplex promoter can serve as a novel target to inhibit cancer invasiveness. *Oncotarget* 8 (66), 110234. **(I.F.: 3.331)**
5. **Biswas A**, Mandal S, Sau S (2017) Identification and characterization of a CI binding operator at a distant location in the temperate staphylococcal phage $\Phi 11$. *FEMS microbiology letters*. 364 (20), fnx201. **(I.F.: 2.742)**

6. Mandal S, Mahapa A, **Biswas A**, Jana B, Polley S, Sau S, Sau K (2016) A surfactant-induced functional modulation of a global virulence regulator from *Staphylococcus aureus*. *PLoS One*. 11(3): e0151426. **(I.F.: 3.24)**
7. Mahapa A, Mandal S, **Biswas A**, Jana B, Polley S, Sau S, Sau K (2015) Chemical and thermal unfolding of a global Staphylococcal virulence regulator with a flexible c-terminal end. *PLoS One*. 10 (3): e0122168. **(I.F.: 3.24)**
8. **Biswas A**, Mandal S, Sau S (2014) The N-Terminal domain of the repressor of *Staphylococcus aureus* Phage Φ 11 possesses an unusual dimerization ability and DNA binding affinity. *PLoS One*. 9: e95012. **(I.F.: 3.24)**
9. Bandhu A, Ganguly T, Jana B, Chakravarty A, **Biswas A**, Sau S (2012) Biochemical characterization of L1 repressor mutants with altered operator DNA binding activity. *Bacteriophage*. 2(2):79-88. **(I.F.: 1.40)**
10. Jana B, Bandhu A, Mondal R, **Biswas A**, Sau K, Sau S (2012) Domain structure and denaturation of a dimeric Mip-like peptidyl-prolyl cis-trans isomerase from *Escherichia coli*. *Biochemistry*. 51(6):1223-37. **(I.F.: 3.162)**