

DECLARATION

I declare that the research work under reference has not been given any award in the past.

I particularly mention the research findings that are the materials of the following manuscripts:

- 1) **BASU A***, Sarkar-Roy N, Majumder PP (2016) Genomic reconstruction of the history of extant populations of India reveals five distinct ancestral components and a complex structure. *Proc Natl Acad Sci U S A*. Feb 9;113(6):1594-9. (IF:12.779)

[Citations: 197, Altmetric Score: 293, this article is in the 99th percentile and it is in the top 5% of all research outputs ever tracked by Altmetric.]

My contribution in this paper has been from population selection, study design, data analysis, data representation, manuscript writing and communication which I did jointly with Professor Partha P Majumder. The sample collection was lead by Professor Partha P Majumder over many years. Dr Neeta Sarkar Roy performed the wet laboratory experiments to generate the data. The project was primarily funded by DBT through grants obtained by Professor Partha P Majumder

- 2) **BASU A**, Mukherjee N, Roy S, Sengupta S, Banerjee S, Chakraborty M, Dey B, Roy M, Roy B, Bhattacharyya NP, Roychoudhury S, Majumder PP (2003) Ethnic India: a genomic view, with special reference to peopling and structure. *Genome Research* 13(10):2277-90 (IF:9.438)

[Citations: 425]

[Many findings of this paper have later been validated and substantiated by the work of multiple researchers, including ours]

My contribution in this paper has been from population selection, data analysis, data representation, manuscript writing and communication. A greater detail of the work has been included as the first chapter of my thesis. The sample collection was lead by Professor Partha P Majumder and a lot of the co-authors over many years. Dr Namita Mukherjee, Dr Sangeeta Roy, Dr Sanghamitra Sengupta performed the wet laboratory experiments to generate the data. Everybody contributed intellectually to the paper. The project was primarily funded by DBT through grants obtained by Professor Partha P Majumder



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