


Curriculum vitae

MAYURAKSHI NAG

M.Sc in Biochemistry (Pursuing Ph.D in Biotechnology)

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Objective-

Eager to utilize my potential to its extent in a dynamic organization where there is need to share my knowledge and skills through creativity for the all-round the development of the company.

Education-

| Ph.D in Biotechnology | University of Calcutta | At the end of Ph.D | |
|---------------------------------|------------------------------------|---------------------------|-------------|
| M.Sc in Biochemistry | University of Calcutta | 69.10 % | 2014 |
| B.Sc in Chemistry (Hons) | University of Calcutta | 58.00 % | 2012 |
| Higher Secondary (WBHSE) | Siliguri Girls' High School | 80.20% | 2009 |
| Secondary (WBBSE) | Siliguri Girls' High School | 84.37% | 2007 |

Awards-

- **Scholarship from West Bengal Board for Higher Secondary Education** in the year 2010
- **GATE 2015** with AIR 1002
- **CSIR-UGC NET-LS JUNE 2015** with AIR 36.
- **CSIR-UGC NET JRF DEC 2015** with AIR-65
- **Best poster award at 91st Annual meeting of Society of Biological Chemist (SBC)**

Skills-

PCR, RT-PCR, Agarose gel electrophoresis, Genomic DNA isolation from yeast, bacteria, Cloning, RNA isolation, Yeast and bacterial cell culture, Fluorescence in situ hybridization (FISH), Bacterial genome analysis, experienced in manuscript preparation, patent searching, patent drafting.

Internship -

Worked as summer trainee for a two-month project titled "**Detection of Carbapenem resistance *E. coli* in the gut isolates of hospitalized neonates**" at National Institute for Cholera and Enteric diseases (NICED), KOLKATA.

Workshop-

Participated in NGS analytics workshop by Bionivid Technologies Pvt. Ltd.

Certification-

Patent drafting course from Henry Harvin Education.

Publications: -

1. **A Tripartite Interaction among the Basidiomycete *Rhodotorula mucilaginosa*, N₂-Fixing Endobacteria, and Rice Improves Plant Nitrogen Nutrition**

Paul K, Saha C, **Nag M**, Mandal D, Naiya H, Sen D, Mitra S, Kumar M, Bose D, Mukherjee G, Naskar N, Lahiri S, Das Ghosh U, Tripathi S, Poddar Sarkar M, Banerjee M, Kleinert A, Valentine A.J, Tripathy S, Sinharoy S, and Seal A **The Plant Cell** 2020 Feb;32(2):486-507 (Co- First Author), (Corresponding author).(Highlighted in The Plant Cell).

2. A unique life-strategy of an endophytic yeast *Rhodotorula mucilaginosa* JGTA-S1— a comparative genomics viewpoint

Sen D, Paul K, Saha C, Mukherjee G, **Nag M**, Ghosh S, Das A, Seal A, and Tripathy S DNA Res. Apr 1;26(2):131-146. doi: 10.1093/dnares/dsy044 (Co- First Author) (Corresponding author).

3. Bacterial endosymbionts in a nitrogen-fixing yeast *Rhodotorula mucilaginosa* JGTA-S1 –Insights into the culturable bacteria

Mayurakshi Nag, Sandipan Chakraborty, Sangita Mondal, Abhrajyoti Ghosh, Chinmay Saha, Mohit Kumar, Manidipa Banerjee and Anindita Seal (Under communication) (Corresponding author).

Training experiences: -

Mentored five project trainees for their post-graduate summer projects.