

CURRICULUM VITAE

Name: Ananya Marik

Date of birth: 27th September, 1985

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ACADEMIC & PROFESSIONAL QUALIFICATIONS:

Doctor of Philosophy (Ph.D)

- i) Institution: University of Calcutta
- ii) Year: 2009-2018
- iii) Subject: Biotechnology

Post-Graduation (M.sc)

- i) Institution: University of Calcutta
- ii) Year Completed: 2009
- iii) Subject: Biotechnology

Graduation (B.Sc)

- i) Institution: University of Calcutta (Asutosh College)
- ii) Year Completed: 2007
- iii) Subjects studied: Biochemistry (Hons.), Mathematics, Zoology

RESEARCH EXPERIENCE:

A. Doctoral research experience:

Worked as a registered Ph.D fellow at Calcutta University, under Dr. Anindita Seal, Department of Biotechnology, in the project entitled “Isolation and Characterization of Protein Interactors of BjNRAMP4.1 Metal Transporter Using a Split Ubiquitin Yeast Two Hybrid Screen”.

B. IAS summer fellowship research experience:

Worked for 3 months (May, 2008 to July, 2008) under Prof. M.S.Shaila, Department of Microbiology and Cell Biology, Indian Institute of Science, Bangalore, under the IAS Summer Research Fellowship Programme, 2008 under the project entitled “Construction of Recombinant *Baculovirus* expressing *Rinderpest* virus L protein domain II.”

C. M.Sc. research internship:

Worked for 6 months under Prof. I. B. Chatterjee (from January, 2009 to June, 2009) in the Department of Biotechnology, University of Calcutta in a project “An insight into interaction of para-benzoquinone with histones.”

PUBLICATIONS:

Ananya Marik, Haraprasad Naiya, Madhumanti Das, Gairik Mukherjee, Soumalee Basu, Chinmay Saha, Rajdeep Chowdhury, Kankan Bhattacharyya and Anindita Seal. “Split-ubiquitin yeast two-hybrid interaction reveals a novel interaction between a natural resistance associated macrophage protein and a membrane bound thioredoxin in *Brassica juncea*.” *Plant Molecular Biology* 92 4-5 (2016): 519-537.

Madhumanti Das, Haraprasad Naiya, **Ananya Marik** and Anindita Seal. “Study of gene functions by *Agrobacterium*-mediated transient expression in *Brassica juncea*; Potential *Arabidopsis* use”. *BioTechniques* BTN manuscript submitted -2019-0010

Chinmay Saha, Dipayan Bose, Gairik Mukherjee, **Ananya Marik**, Upal Das, Karnelia Paul and Anindita Seal. “*Rhodotorula mucilaginosa* displays mycorrhiza-like symbiotic mechanisms and influences nitrogen metabolism in rice”. *New Phytologist* manuscript submitted - NPH-MS-2018-19143

FELLOWSHIPS AWARDED:

- **DBT-IPLS fellowship, 2011**
- **DBT-NET JRF fellowship, 2009**
- **CSIR-UGC NET fellowship, 2010**
- **IAS Summer Research Fellowship Programme, 2008**

PRESENTATIONS:

Oral presentations:

- a. “BjNRAMP4.1- A candidate in intracellular signaling?”- 81st Annual Meeting of Society of Biological Chemists (SBC, 2012).
- b. “Isolation and characterization of protein interactors of BjNRAMP 4.1 metal transporter using a Split Ubiquitin Yeast Two Hybrid Screen” – DBT-CU-IPLS Conference, 2014

Poster presentations:

- a. “Study reveals *Brassica juncea* Natural Resistance associated macrophage protein 4.1 (BjNRAMP4.1) as an interactor of G-protein coupled receptor-like protein associated signaling”- International symposium on Plant Signaling and Behaviour (PSB, 2014).
- b. “BjNRAMP4.1- A candidate in intracellular signaling?”- 81st Annual Meeting of Society of Biological Chemists (SBC, 2012). This was chosen for oral presentation in the 81st Annual meeting of Society of Biological Chemists meeting held in Kolkata among 10 best works.
- c. “Study of a novel interaction between a natural resistance associated macrophage protein and a membrane bound thioredoxin in *Brassica juncea*”- International symposium on Insight to plant biology in the modern era (Bose Institute, 2017)

LABORATORY SKILLS:

Recombinant genetics

Gene cloning (polymerase chain reaction (various PCR subtypes), primer designing, restriction digestion, ligation, colony screening, DNA isolation, PCR based site directed mutagenesis)

Plant, fungal and bacterial media preparation and culture handling.

Plasmid design and construction

Protein expression and purification in prokaryotic and eukaryotic systems

cDNA library preparation and split ubiquitin yeast two hybrid screen for the investigation of protein-protein interactions, sample preparations and storage.

DNA sequencing and sequence analysis.

Protein electrophoresis, co-immunoprecipitation assay and western blotting.

Plant cell, tissue and organ culture; Callus and cell suspension culture; techniques in genetic transformation in plants; transformation with wild type and disarmed strains of *Agrobacterium*.

Bioinformatics.

COMPUTER SKILLS:

Proficient in various biotechnology related software for virtual gene cloning, DNA and protein sequence comparisons and use of databases for protein structure prediction in addition to the software interfaces for the analytical instruments listed above.

Advanced user of Microsoft Windows and Microsoft Office applications.

LANGUAGE SKILLS:

English and Bengali: Fluent

Hindi: Conversational

I there by solemnly declare that all the information's furnished above are true to the best of my knowledge and belief.

Sincerely Yours,

Ananya Marik

Place: Kolkata

Date: 18.03.2019