

## Curriculum Vitae



Name : Sontu Bugh  
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Contact number : 9432973829

Present involvement: Assistant Professor in Botany at Muralidhar Girls' College, Kolkata

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### Research Experiences :

**Project Title [ 2007 ]** : “Structural and functional characterization of fixed tissue and peritoneal macrophages in normal and tumor induced mice”.

Supervisor : Prof. Samaresh Chaudhuri ([schaudhuri@yahoo.co.in](mailto:schaudhuri@yahoo.co.in)), Head, Department of Biochemistry and Medical Biotechnology, School of Tropical Medicine, Calcutta.

Duration of the project : Three months.  
Designation : Summer Trainee.

Skills adopted : Animal handling (mice), Tumor line maintenance and some biochemical assay methods (related to cell biology).

**Project Title [ 2009 ]** : “Targeting to identify new putative colonization factor of *Vibrio cholerae* non 01 non 0139 in in-vivo tissue culture and in –vitro RITARD model”

Supervisor : Dr. Hemanta Koley ([hemantakoley@hotmail.com](mailto:hemantakoley@hotmail.com)) a faculty member , Division of Microbiology , National Institute Of Cholera and Enteric Disease (NICED), Calcutta.

Duration of the project : Six months.  
Designation : Project Trainee.

Skills adopted: Bacterial strain maintenance (*Vibrio cholerae* and *Shigella* sp), PCR, Agarose Gel Electrophoresis.

**Project Title [2010]** : “Study of Chaperone like activity of a low molecular weight enzyme Protein Sucrase, isolated and purified from edible fungus”.

Supervisor : Dr. Suman Khowala, Senior Scientist, Division of Drug Development and Biotechnology, Indian Institute of Chemical Biology, Calcutta.

Duration of the project: Ten months.  
Designation : **CSIR-JRF**

Skills adopted : Biochemical assay methods (related to enzyme and protein), HPLC, FPLC, Western Blot and related protein purification techniques

Project Title [ 2010- 2013 ] : “Dissecting the mechanism of regulation of expression of genes via decay of their mRNAs in nucleus ( DRN ) of *Saccharomyces cerevisiae*”.

Supervisor: Dr. Biswadip Das (biswadip\_das@yahoo.com), a faculty member of Department of Life science and Biotechnology, Jadavpur University, Calcutta.

Designation : **CSIR-JRF & SRF**

Skills adopted : Different techniques of molecular cloning , 5' and 3' RACE , making deletion construct by restriction enzymes / reverse PCR technique, knocking down of a gene in *Sachharomyces cerevisiae* by two step gene replacement, RNA work, northern analysis (non radioactive method) & RT PCR.

Project Title [ 2014 ] : To identify the components involved with mitochondrial GTPase *YLF2* in regulating mitochondrial function in *Saccharomyces cerevisiae*

Supervisor : Dr. Kaustuv Datta, a faculty member of Department of Genetics, University of Delhi, South Campus

Work duration : 6 months.

Designation : **Research trainee.**

Skills adopted : Isolation of temperature sensitive mutant and suppressor mutant of yeast, western blot.

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## Teaching Experiences :

1. Appointed as assistant professor in Botany on 4<sup>th</sup> February of 2015 at Sundarban Hazidesarat College, South 24 Parganas through College Service Commission. I was actively involved in academic activities there up to 10<sup>th</sup> January of 2017.

2. Appointed as assistant professor in Botany on 11<sup>th</sup> January of 2017 at Muralidhar Girls' College, Kolkata through College Service Commission. Presently I am doing my active service at Muralidhar Girls' College.

Teaching Field: General Biochemistry, Microbiology, Plant Anatomy, Cell Biology & Biotechnology .

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## **Poster presented or selected :**

1. International conference held at Raja Bajar Science College, University of Calcutta (2010).

Title of the presented poster : Interrelationships between the nuclear mRNA surveillance (Exosome mediated & DRN mediated) pathways in *Saccharomyces cerevisiae* ( Selected as one of the best poster ).

2. Annual yeast meeting held at IIT, Bombay ( 2012 ).

Title of the selected poster : Killing the messengers before they are born: A new paradigm for cell survival and gene regulation.

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## **Seminar Delivered :**

On second RNA Meeting, Convener: Dr. Biswadip Das , October, 2012

Topic : Dissecting the mechanism of regulation of expression of genes via decay of their mRNAs in nucleus of *Saccharomyces cerevisiae*.

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## **Fellowship Awarded / Enjoyed :**

1. Qualified the National Eligibility Test (NET) as CSIR JRF, June'2009.

2. Enjoyed a national Scholarship, FAEA (Foundation for Academic Excellence & Access), supported by Ford Foundation from 2003-2008. FAEA fully supported me for pursuing my graduation and post graduation studies.

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