

Dr. Sิริya Sultana

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Personal Details:

Name: Sิริya Sultana

Father's Name: Arshad Ali Molla

Mother's Name: Monowara Bibi

Date of Birth: 05.02.1988

Sex: Female

Nationality: Indian

Languages Known: English, Hindi and Bengali

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Examination/Degrees:

Examination/ Degrees Education	Board/University	Year of Passing
Secondary	W.B.B.S.E	2004
Higher Secondary	W.B.C.H.S.E	2006
B.Sc. (Hons.) in Botany	University of Calcutta	2009
M.Sc. in Botany	West Bengal State University	2012
Doctorate in Philosophy in Science (Ph. D)	West Bengal State University	2020

Ph. D. Thesis Title: “Study of incidence and genetic diversity of Potyvirus in West Bengal at molecular level”.

Working experience:

Sl. No.	Post Held	Place of Posting	Time Period
1.	MAN-JRF	West Bengal State University, Kolkata	2013-2015
2.	MAN-SRF	West Bengal State University, Kolkata	2015-2018

Award/Fellowship/Achievements:

1. University Grants Commission (UGC), Govt. of India: Maulana Azad National Fellowship as Junior Research Fellowship-2013-2015
2. University Grants Commission (UGC), Govt. of India: Maulana Azad National Fellowship as Senior Research Fellowship-2015-2018
3. JOINT CSIR-UGC NET Exam Dec 2018 in LIFE SCIENCES
4. Qualify the Research Entrance Test (RET) 2014, conducted by West Bengal State University

Teaching Experience:

Sl. No.	Post Held	Place of Posting	Time Period
1.	Guest Faculty (Dept.of Botany) (PG courses)	Serampore College, 8, William Carey Sarani, Maniktala, Serampore, West Bengal 712201	March 2020- December 2023
2.	Guest Faculty (Dept. of Biochemistry) (PG courses)	West Bengal State University, Kolkata 700125	May 2021- December 2023

Technical Qualifications :

- A. Immunology:** Dot Blot-Technique and machine operation; ELISA- Technique.
- B. Microscopy:** Simple and Compound Microscope operation; Photography: Camera operation, Digital Photography Sample preparation for TEM
- C. General Techniques:** Agarose gel electrophoresis; Machine operation (Bio-Rad, Biotech and Atto, Japan); UV-visible spectrophotometry (Eppendorf biospectrophotometer and Thermo UV-vis spectrophotometer); Nanodrop spectrophotometry (Eppendorf).
- D. Genomics:** RNA isolation, DNA isolation; cDNA Synthesis, Primer designing, Probe designing, Polymerase chain reaction (RT-PCR) (Machine operation- Eppendorf PCR Mastercycler, Applied Biosystems); Real-time qPCR (Machine operation- Roche 96 well).

E. Bioinformatics, Biostatistics and Computer Knowledge: Basic bioinformatics with information technology- Primer designing software handling; Biological data analysis- Blast BLAST2GO analysis; Vector NTI, ClustalW, MEGA software. MS-Word, Excel, PowerPoint; Adobe packages. Operation and handling of different software's used in biological research work.

Research Experience

- Design universal primer for the specific virus.
- Total RNA isolation by using modified Trizols methods.
- Cloning of virus genome.
- Expertise in virus inoculation in plant and host range study technique
- Analysis of sequencing result of virus genome.
- Real Time qPCR.
- Adaptive and flexible.
- Leading team and problem-solving capacity.
- Independently design experiment and ability to write papers.
- Molecular biology work, bio-informatics tools and biochemical assay done independently.

Publications: in peer reviewed journal

1. Roy, B., Chakraborty, B., Mitra, A., **Sultana, S.** and Sherpa, A.R. (2015) Natural occurrence of *Bhendi yellow vein mosaic virus* on *Litsea spp.* in India. New Dis. Rep. 31, 7.
2. **Sultana, S.**, Roy, B. and Sherpa, A. R. (2019) Natural occurrence of *Papaya ringspot virus* in *Clitoria ternatea* in India. Journal of Plant Pathology. 101 (1): 183. <https://doi.org/10.1007/s42161-018-0128-5>.
3. **Sultana, S.**, Roy, B., Sherpa, A. (2020). The complete sequence of a papaya ringspot virus (PRSV) isolates from West Bengal, India infecting papaya and study of genetic variation. European Journal of Plant Pathology. 159. 1-8. 10.1007/s10658-020-02124-4.

Seminar/ Symposium- Attended/ Abstracts presented: International/ National

1. Oral presentation on “Detection and characterization of *Papaya ringspot virus* infecting in Papaya in West Bengal.” ISMPP International Conference on Plant Health for Human Welfare to be held at Department of Botany, University of Rajasthan, Jaipur, November, 2017.
2. Poster presentation on “Natural occurrence of *Papaya ringspot virus* and *Tomato leaf curl delhi virus* mixed infection in *Coccinia grandis* in India” in ISMPP 38th conference and National Symposium, BCKV, Kalyani, November, 2016
3. Poster presentation on “Characterization of a naturally occurring DNA-beta satellite associated yellow vein mosaic disease in *Neolamarckia cadamba* in India”. ISMPP 38th conference and National Symposium, BCKV, Kalyani, November, 2016.
4. Participated in the National Seminar on “Molecular approaches in Applied Biochemistry: Recent Advancements” held on 12th and 15th February 2016, Organized by Departments of Biochemistry, West Bengal State University.
5. Participated in the “NEP workshop in Microbiology” held on 7th December 2023, Organized by Departments of Microbiology, West Bengal State University.