



# DR. SOURISH DAS GUPTA

*M.Sc. (Botany), Ph.D., Post-Doc (CSIR)*

## DESIGNATION

**Vice - Principal (Academics)  
& Assistant Professor in Botany**  
NBSXC, Rajganj Campus, Jalpaiguri

## CONTACT



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**Subhashpally, Siliguri**

## EXPERIENCE

- Teaching: > 14 years (till date)
- Research: > 15 years
- No. of Publications: 17  
[11 Full Papers, 05 Book Articles & 01 Monographs]
- Seminar / Conference Attended: 11  
[01 International & 10 National]
- Workshop Attended: 07
- Webinar attended: 01
- Refresher Course attended: 01  
(UGC recognized)
- Orientation Program attended: 01  
(UGC recognized)

## PROFESSIONAL ACHIEVEMENTS, AWARDS & RECOGNITION

- Member of Board of Studies (BOTANY), NBU (2022-2023).
- Member of Board of Studies (BOTANY), CBPBU (2017-2019).
- Member of Board of Studies (ENVS), CBPBU (2019 - till date).
- Received AdHoc Research Associateship of CSIR for post-doctoral research project for three (3) years (2006-2009).
- Received best poster presentation award in National Conference on Medicinal and Aromatic Plants, December 10-12, 2007 organized by Department of PG Studies and Research in Botany, Gulbarga University, Gulbarga (Karnataka), India.
- Working as moderator, paper-setter, examiner of Botany honours and general papers of theoretical practical examinations of NBU (2016 – till date).
- Working as Academic Counsellor of life sciences, IGNOU at IGNOU learning support centre 45015 (2011 – till date).

## ADMINISTRATIVE RESPONSIBILITIES

- Vice Principal (Academics), NBSXC (2023 – till date)
- Head, Department of Botany, NBSXC (2022 – 2023)
- Convener, Examination Committee, NBSXC (2023 – till date)
- Co-Convener, Examination Committee, NBSXC (2022 – 2023)
- Member, Examination Committee, NBSXC (2016 – till date)
- Member, Admission Committee, NBSXC (2017 – till date)
- Coordinator, NAAC Committee, NBSXC (2018-2019)
- Assistant Coordinator, IGNOU LSC 45015 (2016 – till date)
- Member, Indian Phyto-pathological Society (2017-2018)

## RESEARCH INTERESTS

- Biochemical, molecular, and immunological diagnostics for plant-pathogen interactions.
- Biological control of phytopathogens and formulation of biopesticides.
- Determination of antifungal properties of different plants against fungal phytopathogens.
- Phytochemical analysis of antimicrobial properties isolated from plants.
- Detection and induction of defense enzymes in crop plants against fungal pathogens following application of biotic and abiotic inducers.
- Extraction, estimation, and purification of induced defense enzymes by biochemical and molecular diagnostics.

## MAJOR PUBLICATIONS

- **2023.** S. Dasgupta, G.D. Purkayastha, and B. Saha. Redefining the relevance and efficacy of microbial biocontrol agents against phytopathogens, in B. Singh *et. al.* (Eds.) **Research in Mycology** (Vol. 2). Blue Duck Publications, J & K. pp. 40-53. ISBN 978-93-93996-47-3.
- **2010.** A. Saha, M. Isha, S. Dasgupta, and D. Saha. Pathogenicity of *Colletotrichum gloeosporioides* (Penz.) Sacc. causal agent of anthracnose in different varieties of eggplant (*Solanum melongena* L.) determined by levels of cross-reactive antigens shared by host and pathogen. In **Archives of Phytopathology and Plant Protection**. Vol. 43, No. 18, pp. 1781-1795. ISSN 0323-5408.
- **2009.** S. Sen, M. Rai, R. Acharya, S. Dasgupta, A. Saha, and K. Acharya. Biological control of pathogens causing *Cymbidium pseudobulb rot complex* using fluorescent *Pseudomonas BRL-1*. In **Journal of Plant Pathology**. Vol. 91, No. 3, pp. 751-755. ISSN 1125-4653.
- **2008.** A. Saha, P. Mandal, S. Dasgupta, and D. Saha. Influence of culture media and environmental factors on mycelial growth and sporulation of *Lasiodiplodia theobromae* (Pat.) Griffon & Maubl. In **Journal of Environmental Biology**. Vol. 29, No. 3, pp. 407-410. ISSN 0254-8704.
- **2007.** S. Dasgupta, D. Saha, and A. Saha. Yield response of *Pleurotus sajor-caju* grown on different substrates of North Bengal. In **Geobios**. Vol. 34, No. 2-3, pp. 165-168. ISSN 0016-6995.
- **2005.** S. Dasgupta, D. Saha, and A. Saha. Levels of common antigens in determining pathogenicity of *Curvularia eragrostidis* in different tea varieties. In **Journal of Applied Microbiology**. Vol. 98, pp. 1084-1092. ISSN 1365-2672.
- **2005.** D. Saha, S. Dasgupta, and A. Saha. Antifungal activity of some plant extracts against fungal pathogens of tea (*Camellia sinensis*). In **Pharmaceutical Biology**. Vol. 43, No.1, pp. 87-91. ISSN 1388-0209.
- **2005.** D. Saha, S. Dasgupta, and A. Saha. Control of foliar tea diseases by leaf extract of *Polyalthia longifolia*. In **Journal of Mycology and Plant Pathology**. Vol. 35, No.1, pp. 132-136. ISSN 0971-9393.
- **2005.** A. Saha, S. Dasgupta, P. Mandal, and D. Saha. Reduction of disease incidence in young tea plants against *Curvularia eragrostidis* by biotic and abiotic elicitors, in U. Chakraborty and B. N. Chakraborty (Eds.) **Stress Biology** (Proceedings of National symposium on “Current perspectives in Stress Biology”), New Delhi: Narosa Publishing House. pp. 238-242. ISBN 13. 978-8173196652
- **2001.** A. Saha, S. Dasgupta, and D. Saha. Discovery of *Curvularia eragrostidis* on tea (*Camellia sinensis* (L.) O. Ktze) leaves from clonal-cutting nurseries in North Bengal. In **Environment and Ecology**. Vol.19, No. 4, pp. 846-848. ISSN 0970-0240.

## PAPERS PRESENTED IN SEMINAR / CONFERENCE

### International Seminars and Conferences

- **2010:** Annual Botanical Conference 2010 on Climate Change and Biodiversity: Role of Plant Scientists, December 11, 2010 organized by Department of Botany, Rajshahi University, Bangladesh, and Bangladesh Botanical Society (*Paper presented: Induction of resistance by aminobutyric acid against Exobasidium vexans, causing blister blight of tea.*).

### National/Regional/State Level Seminars and Conferences

- **2013:** National symposium on Recent Trends in Plant and Microbial Research, March 22-23, 2013 organized by DRS-Department of Botany, University of North Bengal, Siliguri (West Bengal), India (*Paper presented: Increase in polyphenol oxidase and phenylalanine ammonia lyase activity by induction with six chemical inducers in tea against blister blight disease caused by Exobasidium reticulatum.*).
- **2012:** National seminar on Biotechnology for people: application and awareness, December 4-5, 2012 organized by Department of Botany, P.D. Women's College, Jalpaiguri (West Bengal), India (*Paper presented: Microbial biopesticides: an eco-friendly approach to overcome the overwhelming use of toxic chemicals for combating fungal phytopathogens.*).
- **2009:** National symposium on Sustainable Utilization of Plant and Microbial Resources, February 28 - March 01, 2009 organized by Department of Botany, University of North Bengal, Siliguri (West Bengal), India (*Paper presented: Increase in  $\beta$ -1,3-glucanase activity by application of abiotic inducers against blister blight disease caused by Exobasidium vexans.*).
- **2008:** National Symposium on Diversity and Functionality of Plants and Microbes, January 24-25, 2008 organized by Department of Botany, University of North Bengal, Siliguri (West Bengal), India (*Paper presented: Increase in peroxidase levels against blister blight disease of tea by application of abiotic inducers.*).
- **2007:** National Conference on Medicinal and Aromatic Plants, December 10-12, 2007 organized by Department of PG Studies and Research in Botany, Gulbarga University, Gulbarga (Karnataka), India (*Paper presented: Increase in  $\beta$ -1,3-glucanase activity by induction with some biotic and abiotic elicitors in tea against diplodia disease caused by Lasiodiplodia theobromae.*). **(Received best poster presentation award).**
- **2007:** National Symposium on Plant Pathogens: Exploitations and Management and 59<sup>TH</sup> Annual Meeting of Indian Phytopathological Society, January 16-18, 2007 organized by Department of Biological Sciences, Rani Durgawati Vishwavidyalaya, Jabalpur (Madhya Pradesh), India (*Paper presented: Induction of resistance by abiotic inducers against Exobasidium vexans causing blister blight of tea.*).
- **2004:** National Symposium on Current Perspectives in Stress Biology, February 06-08, 2004 organized by Department of Botany, University of North Bengal, Siliguri (West Bengal), India (*Paper presented: Reduction of disease incidence in young tea plants against Curvularia eragrostidis by biotic and abiotic elicitors.*).