



**RAMMOHAN COLLEGE**  
**FACULTY ACADEMIC PROFILE**

**Name:** Dr. Shibu Das

**Department:** Department of Botany

**Email:** nbu.sid88@yahoo.in

**Academic background: B.Sc. (2009):** B.Sc. in Botany from A. B. N. Seal College, University of North Bengal.

**M.Sc. (2011):** M.Sc. in Botany (Molecular Plant Pathology and Fungal Biotechnology) from Department of Botany, University of North Bengal.

**Ph.D. (2018):** Molecular Plant Pathology and Fungal Biotechnology Laboratory, Department of Botany, University of North Bengal.

**Thesis title:** "Analysis of specific transcripts following induction of defense in tea against foliar fungal pathogens".

**Positions:** Assistant Professor

**Awards/ Honours:** Rajiv Gandhi National Fellowship (RGNF), UGC.

**Research interest:** Plant Pathology (Host-pathogen interaction, virology), Molecular Biotechnology

**Ongoing Project:** NA

**Research guidance:** NA

**Research Experience:** Worked as a Junior Research Fellow (July, 2018 to August, 2019) in a DBT funded research project entitled "Development of Citrus tristeza virus (CTV) resistant elite mandarin genotypes through RNAi approach to revive citrus industry in Northeast India" in Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi, India.

**Life member:** Indian Phytopathological Society

**Selected publications:**

**Research articles**

1. **Das S.**, Chakraborty P., Mandal P., Saha D. and Saha A. (2017) Phenylalanine ammonia-lyase gene induction with benzothiadiazole elevates defence against *Lasiodiplodia theobromae* in tea in India. *Journal of Phytopathology* **165(11-12):** 755-761. **IF: 1.097**
2. Sarkar T., Chakraborty P., **Das S.**, Saha D. and Saha A. (2018) Curvularia leaf spot of pointed gourd in India. *Canadian Journal of Plant Pathology* **40(4):** 594-600. **IF: 0.846**
3. Chakraborty P., **Das S.**, Saha B., Karmakar A., Saha D. and Saha A. (2017) Rose rosette virus: an emerging pathogen of garden roses in India. *Australasian Plant Pathology* **46(3):** 223-226. **IF: 1.106**

4. Chakraborty P., **Das S.**, Saha D. and Saha A. (2016) First report of Soybean mosaic virus infecting bottle gourd plant in India. *Plant Disease* **100(7)**: 1509. **IF: 3.583**
5. Chakraborty P., **Das S.**, Saha B., Sarkar P., Karmakar A., Saha A., Saha D. and Saha A. (2015) Phylogeny and synonymous codon usage pattern of Papaya ringspot virus coat protein gene in sub-Himalayan region of north-east India. *Canadian Journal of Microbiology* **61(8)**: 555-564. **IF: 1.550**
6. Saha A., Saha B., Chakraborty P., Sarkar P., **Das S.**, and Saha D. (2014) Molecular detection and diversity analysis of some potyviruses associated with mosaic diseases of papaya, common bean and potato growing in sub-Himalayan West Bengal. *VEGETOS* **27(2)**: 338-346. **IF: 0.042**
7. Palchoudhury S., Saha B., **Das S.**, Biswas M. K. and Biswas K. K. (2019) An improved and efficient organogenic regeneration protocol using epicotyl segment of *in vitro* grown kagzilime (*Citrus aurantifolia*) seedling. *Journal of Plant Development Sciences* **11(7)** : 389-395.
8. Mandal H., Chakraborty P., **Das S.**, Saha A., Sarkar T., Saha D. and Saha A. (2017) Biocontrol of virulent *Ralstonia solanacearum* isolates by an indigenous *Bacillus cereus*. *International Journal of Agricultural Technology* **13(1)**: 19-30.
9. Saha A., **Das S.**, Chakraborty P., Saha B., Saha D. and Saha A. (2016) Two new bottle gourd fruit rot causing pathogens from sub-Himalayan West Bengal. *International Journal of Agricultural Technology* **12(2)**: 321-332.

#### **Book Chapter**

1. Saha D., **Das S.**, Chakraborty P. and Saha A. (2018) Nutrient availability and plant-microbe interactions in phytoremediation of metalliferous soils. In: *Phytoremediation of Environmental Pollutants*. Chandra R., Dubey N. K. and Kumar V. (Eds.) CRC Press, Taylor & Francis Group, Boca Raton, FL, pp. 201-226.

#### **Conference abstracts/presentation**

1. **Das S.**, Chakraborty P., Saha A., Saha D. and Saha D. (2014) Detection of some defense genes in *Camellia sinensis* and analysis of chalcone synthase gene following molecular techniques. In: Annual general meeting of ISMPP (East Zone) and National Symposium on “Unravelling Plant-Microbe Interactions for supporting Plant Health” organized by Department of Botany, Gauhati University, Guwahati (October 27-28, 2014).
2. **Das S.**, Saha B., Saha D. and Saha A. (2013) Induction of phenylalanine ammonia lyase (PAL) gene expression by 1,2,3-benzothiadiazole (BTH) in *Camellia sinensis* (L.) O. Kuntze. Against *Colletotrichum camelliae*. In: National Symposium on “Crop pathosystem interactions under aberrant weather and perspectives for crop health management” and 26<sup>th</sup> annual general meeting of IPS (Eastern Zone), Central Rainfed Upland Rice Research Station (CRURRS), Hazaribagh, p. 51 (Abstract) (October 24-25, 2013).
3. **Das S.**, Saha B., Sarkar P., Saha D. and Saha A. (2012) Molecular detection and identification of potyviruses infecting papaya and potato growing in north-east Indian plains. In: Eastern Zonal Meeting of ISMPP and National Symposium on “Biotic and Abiotic Stresses in Plants under Changing Climate Scenario,” organized by Department of Plant Pathology, Uttar Banga Krishi Viswavidyalaya, Coochbehar, West Bengal (November 29-30, 2012).

4. **S. Das**, B. Saha, D. Saha and A. Saha (2012) Partial characterization of *potyvirus* infecting papaya in sub-Himalayan West Bengal, India. *In: MICROTRENDS 2012*, UGC Sponsored Seminar on “Emerging Trends in Microbiology” organized by Department of Microbiology, University of North Bengal, Siliguri-734013 (March 16, 2012).
5. **Das S.**, Saha B., Sarkar P., Saha D. and Saha A. (2012) Molecular detection and identification of potyviruses infecting papaya and potato growing in north-east Indian plains. *J Mycol Plant pathol* **42(4)**: 543.
6. A. Saha, B. Saha, P. Sarkar, P. Chakraborty, **S. Das** and D. Saha (2012) Molecular detection of viral diseases from economically important crops and allied weeds of north-east Indian plains. *J Mycol Plant pathol* **42(4)**: 539.

#### **Participated in Workshop**

1. **Participated in International hands-on training** on “Gene expression analysis by real-time PCR” organized by South Asian University, New Delhi, India (December 14-16, 2017).
2. **Participated in National Seminar cum Workshop on “Bioinformatics”** organized by Bioinformatics Facility, University of North Bengal, Siliguri 734013, West Bengal (March 12-14, 2015).
3. **Participated in the National Workshop on “Exploitation of Plant and Microbial Resources of North Bengal”** organized by University of North Bengal, Siliguri 734013, West Bengal (December 14-16, 2015).
4. **Participated in the Workshop on “Cultivation and Post Harvest Processing of Edible Mushrooms”** organized by Department of Botany, University of North Bengal under a project entitled “Establishment of Rural Bioresource Complex in North Bengal” (December 29, 2014).