

# Dr. Rakhee Das Biswas

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**Date of birth:** 02-01-1975

**Current position:**

Assistant Professor of Botany, Raiganj Surendranath Mahavidyalaya

**Research interests:**

Interaction of plant and pathogenic fungi – their mode of action and control

Molecular plant pathology and fungal biotechnology

**Education:**

| Degree   | Year | University/ College                             |
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| B.Sc. (Hons. in Botany)  | 1997 | Ananda Chandra College, Jalpaiguri, WB, India   |
| M.Sc. (Botany, specialization in Mycology and Plant Pathology) | 1999 | University of North Bengal, Siliguri, WB, India |
| Ph.D. (Botany, Science)  | 2006 | University of North Bengal, Siliguri, WB, India |

**Teaching experience:**

Working as Assistant Professor in Department of Botany, Raiganj Surendranath Mahavidyalaya, Raiganj (since 03.01.2008).

**Research experience:**

DST – JRF and SRF at University of North Bengal, Siliguri, West Bengal, 2001 – 2005

**Title of Ph.D. Thesis:** “Studies on multicomponent coordinated defense strategies in tea against foliar fungal pathogens and *Helopeltis theivora*”.

**Year:** 2006; **University:** Univ. of North Bengal

**Administrative Experience:**

Member, **Academic council**, Raiganj Surendranath Mahavidyalaya in the educational year 2010 – 2011

Convener, **Library committee**, Raiganj Surendranath Mahavidyalaya from the educational year 2011

Member, **Election committee**, Raiganj Surendranath Mahavidyalaya in the educational year 2011 – 2012

Member, **Admission committee**, Raiganj Surendranath Mahavidyalaya in the educational year 2010 – 2011 & 2013 – 2015

Member, **NAAC committee**, Raiganj Surendranath Mahavidyalaya in the educational year 2013 – 2015.

Teacher representative of **Governing body**, Raiganj Surendranath Mahavidyalaya from the year 2012.

**Awards / Fellowships/ Recognition, etc.:**

Received the **Research Award** from the International Conference on O-CHA (Tea) Culture and Science (ICOS- 2004) for the paper entitled “*Antimicrobial proteins of tea*” presented during ICOS 2004 held at Shizuoka, Japan during November 4-6, 2004

Award received, **Prof. M.J. Narasimhan Medal for the best paper published** in Indian Phytopathology Vol. 58(2005): 298-304 entitled “*Defense enzymes triggered by Exobasidium vexans massee induced resistance in tea plants.*”

Received **P. P. Singhal Memorial Pesticides India Industries Award** from Indian Society of Mycology and Plant Pathology (ISMPP) for the research paper entitled “*Protection of tea plants against pest and pathogen through combined application of pesticide and plant growth promoting rhizobacterium*” presented at 32<sup>nd</sup> Annual Conference of ISMPP and National Symposium on “Innovation in Plant Pathology Research and Human Resource Development” organized by Junagadh Agricultural University, Junagadh (Gujrat) November 24-26, 2010.

**Participation in Workshop / Summer & Winter Schools / Orientation & Refresher Programmes:**

Participate, UGC sponsored “Capacity Building of Women Managers in Higher Education.” Organized by Centre of Women’s Studies, North Bengal University, Darjeeling from 13<sup>th</sup> to 17<sup>th</sup> February, 2009.

Participate in the UGC sponsored 1<sup>st</sup> **Refresher Course in Life Science**, from 08-09-2011 to 28-09-2011 at Academic Staff College, North Bengal University, Darjeeling.

Participate in the UGC sponsored **14<sup>th</sup> Orientation Programme** from April, 25, 2013 to May 22, 2013 at Academic Staff College, North Bengal University, Darjeeling.

Participate in **National Workshop** on “Exploitation of Plant and Microbial Resources of North Bengal” organized by Department of Botany, University of North Bengal held on December, 14-16, 2015.

#### **Participation in international conferences / symposia:**

Participate, UGC Sponsored **State Level Conference** on “Remembering the Revolt of 1857 : Nationalist in Postcolonial India, organized by Department of English, Raiganj Surendranath Mahavidyalaya on 27<sup>th</sup> – 28<sup>th</sup> November, 2008.

Paper presented, Silver Jubilee **National Symposium** on “Sustainable Utilization of Plant and Microbial Resources” organized by Department of Botany, University of North Bengal, on February 28 – March 1, 2009

Participate, UGC Sponsored **National Symposium** on “Advances in Abiotic and Biotic Stress Management of Plants” organized by Department of Botany, University of North Bengal, on September 23-24, 2011

Participate, UGC Sponsored **State Level Conference** on “Green Chemistry for Environmentally Benign Chemical Synthesis” organized by Department of Chemistry, Raiganj Surendranath Mahavidyalaya on February 14-15, 2012

Convener, UGC Sponsored **National Seminar** on “Biodiversity and Sustainability vis-à-vis Economic Development in the Northern Parts of West Bengal” organized by Department of Botany, Raiganj Surendranath Mahavidyalaya, on 26<sup>th</sup> & 27<sup>th</sup> August, 2012

Organize UGC Sponsored **National Workshop** on “Application of Statistical Methods: An Interdisciplinary Approach” on 5-11 September, 2012 at Raiganj Surendranath Mahavidyalaya.

Participate, UGC Sponsored **National Seminar** on “Cultural Plurality and Nation making in India, Issues and Problems in Retrospect (focus on Eastern and North-Eastern India)” on 7 & 8 November, 2014 organized by Department of History, Shree Agrasen Mahavidyalaya, Dalkhola.

Participate, **National Seminar** “Different Horizons of Lokasangskriti” organized by Raiganj Surendranath Mahavidyalaya & Folklore Congress Association of India on 2<sup>nd</sup> -3<sup>rd</sup> May, 2015

#### **Membership in Scientific Societies/ Forums:**

Life member of Indian Phytopathological Society.

Fellow of International Society for Conservation of Natural Resources (F.N.R.S., 2007)

#### **Publications:**

##### **Papers in peer-reviewed Journals**

De, U. K., **Das Biswas R.** and Chakraborty, B. N. (2013). Association of AF fungi in the rhizosphere of *Thuja orientalis* (L). **NBU Journal of Plant Science** 7: 1-8

Chakraborty, B. N., Sharma, M. and **Das Biswas R.** and Ghose A.N. (2009). Pathogenesis related proteins of tea triggered by *Exobasidium vexans*. **NBU Journal of Plant Science** 3: 59-66

Chakraborty, B. N. and **Das Biswas R.** (2008) Serological detection of *Corticium invisum* in tea leaf tissue. **Journal of Mycology and Plant Pathology** 38(3): 458-465

Chakraborty, B. N., **Das Biswas R.** and Sharma, M.(2007). Induction of resistance in tea plants against *Alternaria alternate* by foliar application of leaf extract. **Journal of Mycology and Plant Pathology** 37(1): 60-64

Chakraborty, B. N., Biswas, B., **Das Biswas R.** and Sharma, M (2007). Detection and cellular location of cross reactive antigens in root tissues of *Leucaena leucocephala* shared by *Fusarium oxysporum*. **Environment Biology and Conservation** 12: 45-49

Chakraborty, B. N., **Das Biswas R.** and Sharma, M.(2006). *Alternaria alternate* – a new foliar fungal pathogen of Tea in North Bengal, India. **Plant Pathology** 55: 303

Chakraborty, B. N., Sharma, M. and **Das Biswas R.** (2006) A new record on leaf blight of tea caused by *Curvularia pallescens*. **Journal of Mycology and Plant Pathology** 36(1): 42-43

Chakraborty, B. N., Sharma, M. and **Das Biswas R.** (2005). Association of defense enzymes with resistance in tea plants triggered by *Exobasidium vexans* Masee. **Indian Phytopathology**, 58(3): 298-304

Chakraborty, B. N., Sharma, M., **Das Biswas R** and Sharma, M.(2005). Induction of resistance in tea plants against *Curvularia pallescens* by foliar application of leaf extracts. **Journal of Hill Research**, 18(2): 69-78.

Chakraborty, B. N., **Das Biswas R.** and Sharma, M (2004). Multicomponent coordinated defense strategies in tea plants against *Helopeltis theivora* and *Exobasidium vexans*. **Journal of Plantation Crop** 32: 289-297.

### Chapters in Books

Chakraborty, B. N., Sharma, M. and **Das Biswas R** (2005). Defense responses in tea plants triggered by *Exobasidium vexans*. In **Stress Biology** (Eds. U. Chakraborty and B. N. Chakraborty) Narosa Publishing House, New Delhi. p 226-232

Chakraborty, U., Chakraborty, N., **Das Biswas R** and Chakraborty B. N. (2005). Changes in oxidative stress and defense related enzymes of tea leaves following attack by *Helopeltis theivora*. In **Stress Biology** (Eds. U. Chakraborty and B. N. Chakraborty) Narosa Publishing House, New Delhi. p 233-237

Chakraborty, B. N., Sharma, M. **Das Biswas R** and Ghose, A. (2005). Pathogenesis-related proteins of tea :Their induction and immunocytochemical localization. In: **Emerging trends in Plant-microbe interactions** (eds. S.S.Gnanamnickam, R. Balasubramanian and N. Anand) University of Madras, Chennai, p 194-202

### Books edited

Edited the book "**Biodiversity and Sustainability Opportunity & Challenges**" ISBN no 978-93-5254-104-1 Publisher Binary Banian. 2016

Associate Editors, "**Biodiversity, Conservation and Sustainable Development**" Vol-1 Issues and Approaches, ISBN : 978-81-86772-75-1, Edited by New Academic Publishers, 1<sup>st</sup> edition 2015.

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### Address for Correspondence:

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