

PROFESSOR SANJOY GUHA ROY

PROFESSOR & Former HEAD, DEPARTMENT OF BOTANY, WEST BENGAL STATE
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 researcherid.com/rid/K-9000-2018; [Scopus Author ID: 23982557700](#)

Teaching experience (In substantive post): **since 1999** - till date

Research Interests: Molecular identification, Phylogeny and Population structure (in relation to management) of diseases caused by *Phytophthora* spp. in India

A. HONORS/AWARDS

- (i) Commonwealth Professional Fellow (*Funded by DFID, Govt. of UK*; administered by Commonwealth Scholarship Commission)
- (ii) Fulbright-Nehru Senior Fellow (*Funded by U.S. Department of State & Govt. of India*; administered by United States India Educational Foundation)
- (iii) Visiting Fellow, Department of Plant Pathology and Plant Microbe Biology, Cornell University, USA
- (iv) Travel award from NSF (*National Science Foundation*), USA
- (v) Teacher Fellow (UGC, New Delhi)
- (vi) Recipient of Presidency College Graduate Scholarship

B. PROFESSIONAL SERVICE

PROFESSIONAL POSITIONS:

INTERNATIONAL

- (i) Chair, Scientific Committee Asiabligh (The Potato Late Blight network for Asia)

(<https://www.asiabligh.org/>)

- (ii) Regional Representative (India) Asiabligh (<https://www.asiabligh.org/>)

NATIONAL

- (ii) Senior Editor- Journal of Mycopathological Research (https://imskolkata.org/editorial_board.php)

JOURNAL REVIEWER (*AD HOC*):

- (i) Plant Disease; *The American Phytopathological Society*
(<https://apsjournals.apsnet.org/journal/pdis>)
- (ii) Plant Pathology; Wiley, *British Society for Plant Pathology*
(<https://bsppjournals.onlinelibrary.wiley.com/journal/13653059>)
- (ii) Fungal Biology; Elsevier, *The British Mycological Society*
(<http://www.journals.elsevier.com/fungal-biology/>)
- (iii) Journal of Phytopathology; Wiley-VCH GmbH
(<https://onlinelibrary.wiley.com/journal/14390434>)
- (iv) Australasian Plant Pathology; Springer Nature, *Australasian Plant Pathology Society*
(<https://link.springer.com/journal/13313>)
- (i) Indian Phytopathology; Springer Nature, *Indian Phytopathological Society*
(<https://www.springer.com/life+sciences/plant+sciences/journal/42360>)
- (vi) Archives of Agronomy and Soil Science; Taylor and Francis Online
(<http://www.tandf.co.uk/journals/gags>)

GRANT PANELS REVIEWER (*AD HOC*):

- (i) Czech Science Foundation (<https://gacr.cz/en/>)

- (ii) Department of Biotechnology, Govt. of India
- (iii) Department of Science & Technology (DST-SERB), Govt. of India
- (iv) Fulbright Fellowships, USIEF, India

TRANSLATIONAL SERVICE TO INDUSTRY AND SOCIETY:

- (i) Apex genotyping center in India and referral center for SAARC nations for genotyping of late blight disease of potato and tomato. <https://www.asiabligh.org/genotyping-labs/>
- (ii) Support services to CIP (International Potato Center) and industry through existing MoUs.

C. PUBLICATIONS

SELECTED PEER REVIEWED PUBLICATIONS

SELECTED BOOK CHAPTERS

1. **Guha Roy S.** 2019. A population genetics perspective to ecology and management of *Phytophthora* spp. affecting potato, tomato and pointed gourd in India. In Vegetable Pathosystem: Ecology, Disease Mechanism and Management” Chapter 3, Pages 39-48, **CRC Press (Taylor Francis Group)**, USA.
2. **Guha Roy S.** 2016. Host specificity in *Phytophthora* - a conundrum or a key for control? In: The Phytopathogen: Evolution and Adaptation. Chapter 7, Pages 174-189. **CRC Press (Taylor Francis Group)**, USA.
3. **Guha Roy S.** 2015. *Phytophthora* -a member of the Sixth kingdom revisited as a threat to food security in the 21st century. In: Value addition of Horticultural crops: Recent trends and future directions. Pages 325-337; **Springer**, ISBN: Print ISBN 978-81-322-2261-3, Online ISBN 978-81-322-2262-0 http://link.springer.com/chapter/10.1007/978-81-322-2262-0_19
4. **Guha Roy S & Grünwald NJ.** 2014. The plant destroyer genus *Phytophthora* in the 21st century. **Review of Plant Pathology**, Vol. 6, Page 387-412. (Eds. B. N. Chakraborty and U. Chakraborty), Scientific Publishers (India), Indian Society of Mycology and Plant Pathology, Udaipur - 313 001 (India) **DOI:** 10.13140/2.1.3200.8329

SELECTED PEER REVIEWED PAPERS

1. Dey T, Soumen Das, Soumyadeep Ghosh, Cooke DEL, **Guha Roy S.** (2025). A Reassessment of the Etiology of Late Blight Epidemics in the Indian Plains Reveals that Asymptomatic Seed Potatoes Are the Principal Source of Disease Spread. *Phytopathology*® 115 (12), 1672-1680. <https://doi.org/10.1094/PHYTO-10-24-0326-R>
2. Dey T, Dwivedi SK, Datta S, Cooke DEL, **Guha Roy S.** (2024) Understanding the temporal dynamics of invasive late blight populations in India for improved management practices. *Phytopathology*® 114 (8), 18101821 <https://doi.org/10.1094/PHYTO-03-24-0082-R>
3. Dhali R, Dey T, Tewari S, **Guha Roy S.** (2024) A Survey of *Phytophthora* spp. in Eastern Indian Nurseries and Their Sensitivity to Six Oomycete-Targeted Commercial Fungicides. *Plant Disease*, 108(2):486-501. <https://doi.org/10.1094/PDIS-10-22-2341-RE>
4. **Guha Roy S**, Dey T, Cooke D, Cooke, L. (2021). The dynamics of *Phytophthora infestans* populations in the major potato-growing regions of Asia – a review. *Plant Pathology*. 70: (5), 1015–1031. <https://doi.org/10.1111/ppa.13360>.

5. Dey T, Saville A, Myers K, Tewari S, Cooke DEL, Tripathy S, Fry WE, Ristaino JB, **Guha Roy S.** (2018). Large sub-clonal variation in *Phytophthora infestans* from recent severe late blight epidemics in India. *Scientific Reports* 8:4429. <https://doi.org/10.1038/s41598-018-22192-1>
6. ***Guha Roy S**, Dey T, Cooke DEL. (2018) Fungicide sensitivity of the Indian sub-clonal variants of the *Phytophthora infestans* 13_A2 lineage. *Phytopathology*®, 108 (10), 153-153S
7. Panabières F, Ali GS, Allagui MB, Dalio RJ.D., Gudmestad NC, Kuhn ML, **Guha Roy S**, Schena L, Zampounis A. (2016). *Phytophthora nicotianae* diseases worldwide: new knowledge of a long-recognised pathogen. *Phytopathologia Mediterranea* 55 :(1), 20-40.
8. Sophien Kamoun, Oliver Furzer, Jonathan D.G. Jones, Howard S. Judelson, Gul Shad Ali, Ronaldo J. D. Dalio, **Sanjoy Guha Roy**, Leonardo Schena, Antonios Zampounis, Franck Panabières, David Cahill, Michelina Ruocco, Andreia Figueiredo, Xiao-Ren Chen, Jon Hulvey, Remco Stam, Kurt Lamour, Mark Gijzen, Brett M. Tyler, Niklaus J. Grünwald, M. Shahid Mukhtar, Daniel F. A. Tomé, Mahmut Tör, Guido Van den Ackerveken, John McDowell, Fouad Daayf, William E. Fry, Hannele Lindqvist-Kreuze, Harold J.G. Meijer, Ben Petre, Jean Ristaino, Kentaro Yoshida, Paul Birch, and Francine Govers (2014) The Top 10 oomycete pathogens in molecular plant pathology. *Molecular Plant Pathology* 16: (4) 413–434;
9. *I.M. Small, K.L. Myers, G. Danies, **S. Guha Roy**, K. Bekoscke, W. E. Fry (2012) Characterization of recent clonal lineages of *Phytophthora infestans* in the United States using microsatellite markers. *Phytopathology*® 102:S4.110.
10. * K. Myers, I. Small, S. Jensen, P. Zuluaga, **S. Guha Roy**, and W. Fry (2010) Characterization of *Phytophthora infestans* isolates from potato/tomato in 2010. *Phytopathology*® 101S: 261-262.
11. **Guha Roy S.**, Mukherjee, SK., Bhattacharyya, S., and Khatua, DC. (2009) Molecular identification of *Phytophthora* sp. affecting some economically important crops in Eastern India through ITS-RFLP and sequencing of the ITS region. *Journal of Phytopathology* 157: 666-674.
12. **Guha Roy S.** and Hong CX. (2008) First report of *Pythium* root rot and leaf blight of Elephant foot yam (*Amorphophallus campanulatus*) in India. *Plant Pathology* 57(2): 369.
13. **Guha Roy S.**, Bhattacharyya S., Mukherjee SK., Mondal N., and Khatua, DC. (2006) *Phytophthora melonis* associated with fruit and vine rot disease of pointed gourd in India as revealed by RFLP and sequencing of ITS region. *Journal of Phytopathology* 154(10): 612-615.

*Seminar publication in Q1 international peer reviewed journals

D. EXTRA MURAL FUNDED RESEARCH SUPPORT**Research Projects Sanctioned in last 5 years (As PI)**

Sl No.	Title of Project	Funding Agency & Amount	Duration
1.	Surveillance and monitoring of populations of the devastating Irish potato famine pathogen, <i>Phytophthora infestans</i> in India to safe guard against potential biosecurity threats and to ensure food security of the nation.	DRDO, New Delhi Rs. 64.31 Lakhs	3 years (2019-2021)
2.	NNP	DBT, New Delhi Rs. 169.887140 Lakhs	5 years (2024-2029)

E. Ph.D. THESIS ADJUDICATOR

Multiple Ph.D. thesis of Jawaharlal Nehru University (JNU), Tripura University, University of Kalyani, Bangladesh Agricultural University, University of Mauritius, etc.

F. MEMBERSHIP OF PROFESSIONAL BODIES

- (i) American Phytopathological Society (APS)
- (ii) British Phytopathological Society (BSPP)
- (ii) International Association for the Plant Protection Sciences (IAPPS)
- (iii) International Society for Infectious Diseases (ISID)
- (iv) Indian Mycological Society (IMS)

G. ACADEMIC ADMINISTRATION (EXTERNAL ASSIGNMENTS)

- (i) External Member, Board of Studies/Research Studies: University of Calcutta, University of Kalyani, Netaji Subhas Open University, Swami Vivekanand University, Brainware University, etc.
- (ii) Subject expert of WB State Council for Higher Education for approval of new subjects in colleges of West Bengal at both UG and PG level.
- (iii) Chairperson, equivalence Committee for assessment of eligibility of Asst. Professors in Govt. colleges through West Bengal Public Service Commission.
- (iv) Subject expert of various public examinations
- (v) External Member, academic audit team (for Autonomous Colleges), etc.

H. SOCIAL WEBSITES AND HANDLES

Twitter – @PhytophthoraIND

ResearchGate- https://www.researchgate.net/profile/Sanjoy-Guha-Roy?ev=hdr_xprf

Academia- <https://wbsubregistration.academia.edu/DrSanjoyGuhaRoy>