SANGHMITRA ADITYA

SCIENTIST-B, CSR&TI BERHAMPORE

DATE OF BIRTH

22 MAY, 1995

CONTACT

PHONE:
7409898586

EMAIL:
sanghmitra.iari@gmail.com

LANGUAGES

English, Hindi

COMPUTER PROFICIENCY

Microsoft Office

Unix command System

EDUCATION

Ph.D. Plant Pathology: Indian Agricultural Research Institute (ICAR-IARI)
August 2019 onwards
Major- Fungal Pathology
Minor- Genetics and Plant biotechnology

PhD Thesis title: "Genomics led population diversity studies of leaf blight pathogens infecting Wheat"
Chairman: Dr. M. S. Saharan

M.Sc. Plant Pathology: University of Agricultural Sciences, Dharwad (UASD)
September 2016 – July 2018
Major- Plant Pathology, CGPA 9.01/10.00

M.Sc. Thesis Title: Eco-friendly Management of fungal foliar diseases of Groundnut (*Arachis hypogaea* L.)
Advisor: Dr. Gurudatt M. Hegde

B.Sc Agriculture: Govind Ballabh Pant University of Agriculture & Technology, Pantnagar
August 2012 – June 2016
Major- Agriculture, CGPA 7.90/10.00

EXAMS QUALIFIED

- Cracked Joint Council of Scientific and Industrial Research-University Grants Commission-National Eligibility Test (CSIR-UGC NET) June 2021 with **96.61 percentile**.
- Cracked Indian Council of Agricultural Research (ICAR) All India Competitive Examination- Senior Research fellowship (AICE-SRF Ph.D.)-2019 in Plant Pathology with **All India Rank 1** (AIR-1).
- Cracked Indian Council of Agricultural Research (ICAR) All India Competitive Examination- Junior Research fellowship (AICE-SRF Ph.D.)-2022 in Plant Pathology with **All India Rank 21** (AIR-21).
- Qualified Indian Council of Agricultural Research- National Eligibility Test (ICAR-NET) 2018 in Plant Pathology with **59.56 %.**
- Qualified Agricultural Scientists Recruitment Board National Eligibility Test (ARS-NET) 2021 in Plant Pathology with **48.22 %**.

STRENGTHS

Confident, Self-assured and sincerely hardworking, eager to learn, adept at problem solving and managing skills. Patient and Calm.

HOBBIES

Yoga
Music
Sketching and Painting
Travelling

SKILLS

- SPSS software.
- Basics of R.
- Working knowledge of Unix and Python in data science
- Proficient in sequencing tools such as MEGA, Bioedit, CLC sequence viewer.
- Adept at complete genome sequence data analysis using Bioinformatic software and tools.
- Fluent in data visualization tools (all types of graphs and charts) using R and Python

AWARDS AND FELLOWSHIPS

- Received **Best Poster presentation** in IPS platinum Jubilee conference titled "Plant and Soil health management: Issues and Innovations" held at University of Mysore, Mysuru, Karnataka, India from 2-4th February, 2023.
- Achieved **1st position** in Oral Presentation in e-symposium on "Pathogen Profile and pathogenesis in relation to crop disease management" organized by IPS Delhi zone on 13th January, 2023.
- Achieved **2nd position** in Oral presentation in National Seminar (AGMET-2020) on "Agrometeorological interventions for enhancing farmers' income" organized by College of Horticulture, Kerala Agriculture University, Thrissur from 20-22nd January, 2020.
- Indian Council of Agricultural Research (ICAR) All India Competitive Examination- Junior Research fellowship (AICE-JRF) from 2016-2018 fellowship.
- Indian Council of Agricultural Research- Indian Agricultural Research Institute (ICAR-IARI) Junior Research fellowship from 2019-2021.
- Indian Council of Agricultural Research- Indian Agricultural Research Institute (ICAR-IARI) Senior Research fellowship from 2021-2022.
- Council of Scientific and Industrial Research-University Grants Commission- Junior Research fellowship (CSIR-UGC-JRF) fellowship from 2022 onwards.

SOCIETIES AND APPRECIATIONS

- Life Member of Indian Phytopathological Society, IARI, New Delhi from 10, December, 2021.
- Annual Member of Indian Society of Mycology and Plant, MPUAT, Udaipur, Rajasthan for the year 2019-2020.
- Annual Member of Association of Agrometeorologists, Anand Agriculture University, Anand, Gujrat for the year 2018-2019.
- Appreciation certificate for execution of works assigned in the invitation committee as Volunteer on the occasion of organizing 58th Convocation of PG School, ICAR-IARI, New Delhi during February 10-14, 2020.

TRAININGS AND WORKSHOPS

- Practical Crop Production (Duration - 1 year; Area – 1 hectare; Team: 8 girls; Crops – Rice and Wheat) as part of course work during 2014-2015.
- Rural Agriculture Work Experience: Phase 1 (Plant Clinic), Phase 2 (Industrial training), Phase 3 and 4 (Field visit and Village attachment) during 2015-2016.
- Industrial Training at Pallavika Nursery (Biggest nursery of Uttarakhand, India) for 1 month in 2015.
- Completed 7 days SERB sponsored workshop on "**Hands-on training on CRISPR/Cas9 mediated gene editing in Plants**" organized by Department of Plant Sciences, University of Hyderabad, India from 3-10 October, 2021.
- Completed 7 days virtual training on "**Opportunities for sustainable technological interventions in agriculture and skill development ecosystem**" organized by Nature Science e-Magazine and National Environmental Science Academy, New Delhi from 10-16 February, 2022.
- Completed DBT funded 10 days virtual training program on "**Genome-wide association studies and its application in Agriculture**" organized by Division of Agricultural Bioinformatics, ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India from 15-24th March, 2022.
- Completed 5 days NAHEP-CAAST sponsored training on "**Artificial Intelligence and Machine Learning in Agriculture using Python**" organized by ICAR-Indian Agricultural Statistics Research Institute, New Delhi from 13th to 17th February, 2023.
- Completed 8 days virtual training program on "**Data Visualisation using R**" organized by ICAR-NAARM, Hyderabad from 1-8th March, 2023.
- Competed 11 days NAHEP-CAAST sponsored training on "**Fungal Genome Sequencing: Basic Biology to Biotechnology**" organized by Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi from 10-20th March, 2023.
- Completed One month International workshop on "**Bioinformatics Data Science using R and MySQL 2023 (5th Edition)"** organized by Decode life from 15/04/2023 to 16/05/2023.
- Completed 5 days training programme on **"Data driven Agriculture: A Statistical Analysis training using R"** organized by Agriculture University, Jodhpur, Rajasthan from 23rd to 27th May, 2023.
- Completed One-month International Workshop on **"Genome Informatics 2023"** jointly organized by Decode Life and Ensembl outreach team (EMBL-EBI), United Kingdom from 17th June to 15th July, 2023.
- Participated in one day training workshop on **"Fluorescence Microscopy"** jointly organized by ICAR-IARI, New Delhi and Incise Infotech Private Limited, New Delhi on 21 August 2023.

CONFERENCES, SYMPOSIUMS, SEMINARS AND WEBINARS

- Participated in National symposium on "Recent advances in plant health management for sustainable productivity" organized by Department of Plant Pathology, College of Agriculture, University of Agricultural Sciences, Dharwad and IPS (Southern zone) during 15-16th December, 2016.
- Participated and delivered Poster presentation in International conference (IPSCONF2020) on "Phytopathology in achieving UN sustainable development goals" organized by ICAR-Indian Agricultural Research Institute, New Delhi, India from 16-20th January, 2020.

- Participation and presented and Oral presentation in International web-conference on "New trends in agriculture, environmental and biological sciences for inclusive development (NTAEBSID-2020)" organized by Agro-Environmental Development Society (AEDS), Rampur, UP, India during 21-22nd June, 2020.
- Participated in International e-conference on "Multidisciplinary approaches for plant disease management for achieving sustainability in agriculture" organized by Department of Plant Pathology, College of Horticulture, Bengaluru (University of Agricultural Sciences, Bagalkot), India from 6-9th October, 2020.
- Participated in national webinar on "What to look for sustainable ways to protect the forest health" organized by Forest protection division, Tropical Forest Research Institute, Jabalpur, Madhya Pradesh held on 13th September, 2021.

BOOK CHAPTERS

- **Sanghmitra Aditya*,** Bhagyashree Bhatt, Yaratha Nishith Reddy, Ajay Singh Sindhu and Gurudatt M. Hegde (2023). **Bacteriophage-Assisted Diagnostics and Management of Plant Diseases** In: Book 'Microbial Symbionts and Plant Health: Trends and Applications for Changing Climate' Edited by Piyush Mathur, Rupam Kapoor, and Swarnendu Roy Published by Springer Nature Singapore Pte Ltd. (ISBN:978-981-99-0029-9)
- Gurudatt M. Hegde, **Sanghmitra Aditya** and Shamarao Jahagirdar (2018). **Diseases of Chrysanthemum and their Management** In: Book 'Diseases of Ornamental Crops' Edited by V. Devappa, Dinesh Singh, Shamarao Jahagirdar and published by Indian Phytopathological Society (IPS) New Delhi. (ISBN: ISBN 10: 8170195861, ISBN 13: 9788170195863)
- Gurudatt M. Hegde, **Sanghmitra Aditya** and V. Devappa (2018). **Diseases of China aster and their Management** by In: Book 'Diseases of Ornamental Crops' Edited by V. Devappa, Dinesh Singh, Shamarao Jahagirdar and published by Indian Phytopathological Society (IPS) New Delhi. (ISBN: ISBN 10: 8170195861, ISBN 13: 9788170195863)
- Gurudatt M. Hegde, **Sanghmitra Aditya***, Dechen Wangdi and Bimal Kumar Chetri (2022) **Mycoremediation: A Natural Solution for Unnatural Problems**. In: Book 'Fungal diversity, ecology and control management' Edited by Dr. Vijay Rani Rajpal, Dr. Ishwar Singh and Dr. Shrishail S. Navi and published by Springer Nature Singapore Pte Ltd. (ISBN: 978-981-16-8877-5)
- J. Keerthana, M. Amrutha, **Sanghmitra Aditya**, B.R. Ajesh and Pradeep Manyam (2023). Detection and Management of Basal Stem Rot of Oil palm: Classical to Modern Approaches. In: Book 'Detection, Diagnosis and Management of Soil-borne Phytopathogens' Edited by Udai B. Singh, Ravindra Kumar and H.B. Singh and published by Springer Nature Singapore Pte Ltd. (ISBN: 978-981-19-8306-1)

RESEARCH ARTCLES

- **Aditya, S**., & Hegde, G. M. (2020). Induction of defense enzymes in groundnut upon treatment with bioagents and botanicals. *Journal of Pharmacognosy and Phytochemistry*, *9*(6S), 180-183.
- **Aditya, S**., & Hegde, G. M. (2021) Ecofriendly Management of Fungal Foliar Diseases of Groundnut (Arachis hypogaea L.). International Journal of Current Microbiology and Applied Sciences, 10(7).

- **Aditya, S**., & Hegde, G. M (2019). Survey for the severity of fungal foliar diseases of groundnut in northern parts of Karnataka. Journal of Farm Sciences, 32(3):361-363.

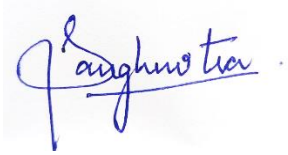
POPULAR ARTICLES

- **Aditya, S**., Bhatt, B. and Surbhi, K. 2021. Nanobodies and their applications in Plant Pathology. Agrobios Newsletter XX (3): 57- 58. Article ID: 21457.
- **Aditya, S.,** Surbhi, K. and Bhatt, B. 2021. Governing principles can guide fungicide resistance in management practices. Agrobios Newsletter XX (3): 58- 60. Article ID: 21458.
- **Aditya, S.,** Surbhi, K. and Bhatt, B. 2021. Advances in plant Epigenetic Regulation. Agrobios Newsletter XX (3): 58- 60. Article ID: 21509.
- Surbhi, K., **Aditya, S**. and Bhatt, B. 2021. Comparative Approaches to Biological Control of Plant Pathogens by Resident and Introduced Antagonists. Agrobios Newsletter. XX (1): 53- 54. Article ID: 21390.
- Bhatt, B., **Aditya,** S. and Surbhi, K. 2021. Mycoviruses: Virus against Plant Pathogenic Fungi. Agrobios Newsletter. XIX (8): 63- 64. Article ID: 21033.
- Bhatt, B., **Aditya, S**. and Surbhi, K. 2020. Means of Microbial Communication: Quorum Sensing. Agrobios Newsletter. XIX (6): 103- 105. Article ID: 20859.
- Surbhi, K., Bhatt, B. and **Aditya, S**. 2021. Contemporary tools for genetic transformation. Agrobios Newsletter. XX (3): 55- 57. Article ID: 21454.
- Surbhi, K., Bhatt, B. and **Aditya, S**. 2021. Stepping Towards Durable Resistance Strategies in Agriculture: Gene Deployment. Agrobios Newsletter. XX (1): 49- 50. Article ID: 21355.
- Bhatt, B., Surbhi, K. and **Aditya, S**. 2020. Quorum Quenching: A Tool for Management of Bacterial Plant Pathogens. Agrobios Newsletter. XIX (7): 93- 95. Article ID: 20947.
- Surbhi, K., Bhatt, B. and **Aditya, S**. 2020. Surviving the Inevitable: Implications of Antibiotic Resistance in Phytopathogenic Bacteria. Agrobios Newsletter. XIX (5): 137- 138. Article ID: 20777.
- Bhatt, B., Surbhi, K. and **Aditya, S**. 2020. Applications of Nanotechnology in Plant Disease Management. Agrobios Newsletter. XIX (5): 74- 76. Article ID: 20746.

DECLARATION

I hereby declare that all the information mentioned above is true to best of my knowledge.

Updated on- 12.12.2023



Sanghmitra Aditya