Dr. Rubina Chongtham

Assistant Professor
Department of Botany

Academic achievements November 2016 - June 2021

Academic session 2020-2021

Publications:

- Ramlal, A., Ahmad, S., Kumar, L., Khan, F.N., Chongtham, R., 2021. From molecules to patients: the clinical applications of biological databases and electronic health records. In: Translational Bioinformatics in Healthcare and Medicine. Elsevier, Academic Press, pp. 107–125. ISBN: 9780323898249

Presentation at International/National Webinars/Virtual Talks:

- Manvi Sharma, Rubina Chongtham, Sanjay Saxena, Arundhati Mukhopadhyay, Manu Agarwal, Shailendra Goel & Arun Jagannath. **Development of aphid resistance in the oilseed crop Brassica juncea (Indian mustard) using plant-mediated RNAi**. In the International Symposium on "Advances in plant biotechnology and genome editing" & the 42nd Meeting of Plant Tissue Culture Association (India), organized by ICAR-Indian Institute of Agricultural Biotechnology, Ranchi, India on April 8-10, 2021.

International/National Webinars/Virtual Talks attended/organized:

1. Two days webinar on "**Evolution of science seen from historical perspective**" Conducted by the Department of Botany, Deshbandhu College under the aegis of IQAC on 12th& 13th May 2020. **Member, Organizing Committee.**
2. Webinar on "**Gender Sensitivity: Best Practices to Follow**" organized by Internal Complaints Committee (ICC) and IQAC, Deshbandhu College, University of Delhi and POSHA (NGO empaneled with Ministry of Women and Child Development on 15thJuly 2020. **Participant.**
3. Invited talk under the aegis of IQAC on "Plant's Diversity : Its importance in Conservation" for Inaugural ceremony of Botanical Society held on 30th January, 2021 organised by Botanical Society, Department of Botany, Deshbandhu College. **Member, Organizing Committee.**
4. Webinar on "The Intimate World of Winged Jewels" organized by Department of Botany, Deshbandhu College under aegis of IQAC & DBT Star Project Scheme held on 17th September, 2020. **Member, Organizing Committee.**
5. Invited talk on "Journey of a biologist: exploring the extreme" organized by Botanical society, Department of Botany in Valedictory function held on 9th October, 2020. **Member, Organizing Committee.**
6. Webinar on "Introduction to GIS and Remote Sensing in Natural Science by Dr. G. Areendran" under the aegis of IQAC and DBT star college, oraginsed by Department of

Botany, Deshbandhu College, University of Delhi, held on 17 October 2020. **Member, Organizing Committee.**

7. Webinar on "Arbuscular Mycorrhizae: A Promise for Sustainable Cultivation of Crops by Prof. Rupam Kapoor, under the aegis of IQAC and DBT star college scheme, organised by Department of Botany, Deshbandhu College, University of Delhi, held on 3 March, 2021. **Member, Organizing Committee.**
8. Three Days International Webinar Series on the Topic "Understanding Flora from Aquatic Ecosystems: Towards Better Conservation & Sustainable Use" jointly organized by Department of Botany, Deshbandhu College, University of Delhi, Delhi, INDIA and Institute of Ocean and Earth Sciences, Universiti Malaya, Kuala Lumpur, MALAYSIA. **Co-Convener.**

Coordinator of the Students Activities

- Organizer for online **Poster Making Competition** organized by Department of Botany, Deshbandhu College under the aegis of DBT-Star College Scheme and IQAC held on June 5, 2020.

Academic session 2019-20

Training Programmes attended (Workshops/FDP/Orientation Program/Refresher Course):

1. Completed Two-Weeks Faculty Development Programme on "Managing online classes and co-creating MOOCS:2.0" organized by the Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), Ministry of Human Resource Development, from 18th May to 3rd June 2020.
2. Completed One-Week Online Faculty Development Programme on "Development and Delivery of MOOCs and E-Content" jointly organized by Central University of Haryana, Mahendergarh under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) and IQAC, Deshbandhu College, University of Delhi, New Delhi, from 26th June, 2020 to 1st July 2020.

Publications:

Book/Book Chapter

1. **Chongtham, R.**, & Rani, M. (2020). *Eupatorium birmanicum*: A Medicinal Plant of Ritualistic Importance in the North-East Indian State of Manipur. In A. Singh, P. Singh, & N. Bithel (Eds.), *Advanced Pharmacological Uses of Medicinal Plants and Natural Products* (pp. 286-301). Hershey, PA: IGI Global. doi:10.4018/978-1-7998-2094-9.ch015. (ISBN13: 9781799820949, EISBN13: 9781799820956).

2. Rani, M., **Chongtham, R.**, & Singh, A. (2020). Anti-Ulcer Activities of Medicinal Plants and Natural Products. In A. Singh, P. Singh, & N. Bithel (Eds.), *Advanced Pharmacological Uses of Medicinal Plants and Natural Products* (pp. 114-127). Hershey, PA: IGI Global. doi:10.4018/978-1-7998-2094-9.ch006. (ISBN13: 9781799820949, EISBN13: 9781799820956).

Paper published:

- Preprint:
  Chongtham R., Kulkarni K., Shukla R. N., Joshi G., Kumar A., Goel S., Agarwal A. & Jagannath, A. (2019). *De novo* transcriptome profiling of mustard aphid (*Lipaphis erysimi*) and differential expression of transcripts associated with developmental stages, feeding and non-feeding conditions. bioRxiv 717470. Doi: https://doi.org/10.1101/717470.

Papers/Poster Presented in Seminars/Conferences/Symposia:

- Chongtham R., Gupta S., Rajamohan, R. and Mallick D.K. Finger millet (*Elusinecoracana*L.): A climate resilient underutilized crop with excellent nutraceuticals for achieving food and nutrition security. National Conference on "**Neglected and Underutilized Crop Species for Food, Nutrition, Energy and Environmen**t", National Institute of Plant Genome Research (NIPGR), New Delhi (August 2, 2019).

Resource Person:

- **INSPIRE Internship Programe**, 17th – 21st December 2019, Deshbandhu College, University of Delhi, India. **Resource Person**

International/National Webinars/Virtual Talks Organized:

- Two days webinar on "**Evolution of science seen from historical perspective**" Conducted by the Department of Botany, Deshbandhu College under the aegis of IQAC on 12th& 13th May 2020. **Member, Organizing Committee.**
- **International conference on natural products and human health (ICNPHH 2020)** University of Delhi, Delhi. February 27-29, 2020. **Organizing Member.**
- **National Conference on Insect Plant Biology in 21st Century**" held on 4-5th November 2019 at Deshbandhu College, University of Delhi. **Member, Organizing Committee**.

Coordinator of the Students Activities:

- Organized a Botanical Trip to Yamuna Biodiversity Park on February 15th 2020 for the students of B.Sc. (H) Botany and B.Sc. (P) Life Science.

- Organized a Botanical Excursion to Chopta, Uttarakhand during 12th - 16th September, 2019 for the students of B. Sc. (Hons) Botany and B. Sc. (Prog) Life Sciences.

Academic session 2018-19

Training Programmes attended (Workshops/FDP/Orientation Program/Refresher Course):

- Attended the TIGR2ESS workshop on R for Genomics and Data mining, 24th Feb-1st March, 2019, organized by NIPGR and University of Cambridge.

Participation in Seminars/Conferences/Symposia:

- Participated in the Fourth National Symposium on "Environment: Green Technology for Environmental Sustainability" on 25th September 2018 in Deshbandhu College, Delhi University.

International/National Webinars/Virtual Talks Organized:

- Two days Symposium on "**Avenues in Plant Science: A Hope for Sustainable future**" on 8th and 9th March 2019 in Deshbandhu College, Delhi University. **Member, Organizing Committee.**

Coordinator of the Students Activities

- Organized an industrial visit to Mother Dairy plant, Patparganj for the students of B. Sc. (H) Botany, 3rd year on 13th April, 2019.

Academic session 2017-18

Academic achievements:

- Was awarded the degree of Doctor of Philosophy in Botany, University of Delhi.

Training Programmes attended (Workshops/FDP/Orientation Program/Refresher Course):

- Attended Faculty Development Program on Industrial and Environmental Microbiology, March 19– 20, 2018. Daulat Ram College, University of Delhi.

Papers/Poster Presented in Seminars/Conferences/Symposia:

- D.K. Mallick and **Rubina Chongtham (presenter).** Climate change impacts on food security and its mitigation strategies in Indian context. In the National workshop on Skill development to build a clean India, Deshbandhu College, University of Delhi. Abstract: p OP8 (June 07-08, 2018).

Coordinator of the Students Activities

- Organized an industrial visit to Mother Dairy plant, Patparganj for the students of B. Sc. (H) Botany, 3rd year on 28th March, 2018.