

**Dr. AKANKSHA PRIYA**  
**Assistant Professor**  
**Department of Botany**  
**College of Commerce, Arts and Science, Patna**  
9899116358 | [priya.akanksha20@gmail.com](mailto:priya.akanksha20@gmail.com)



## **E EDUCATION/DEGREES**

**Ph.D. in Botany** (2012-2018)

Department of Botany, University of Delhi, New Delhi.

**Thesis topic: “ Employing DNA Barcode Markers for Identification and Authentication of Herbal Samples of traded Indian Medicinal Plants”**

Qualified Joint **CSIR-UGC National Eligibility Test (NET), All India rank 62**, for Lectureship in Life Sciences with UGC Junior Research Fellowship. Roll No. 324782 (Exam held on **18.12.2011**).

**M.Sc. in Botany** (2009-2011)

Department of Botany, University of Delhi, New Delhi, India

Secured First Division with 66.8%

### **B.Sc. in Botany**

**(2006-2009)**

Miranda House, University of Delhi, New Delhi, India

Received academic awards for securing the first position in B.Sc. (H) Botany part I (2007), II (2008) and III (2009) at Miranda House, University of Delhi individually and combined B.Sc. (H) Botany I, II, III.

Awarded with Gold Medal for securing the highest marks in the Genetics paper in B.Sc. (H) Botany third year (2009) in Miranda House, University of Delhi, New Delhi.

### **ACADEMIC EXPERIENCES**

Presently working as Assistant Professor (Botany) at College of Commerce, Arts and Science, Patliputra University, Patna. Teaching experience of one year and seven months.

Served as the Head of the department (Botany) at RLSY college, Bakhtiyarpur, Patliputra University, Patna from November' 2019-December' 2020.

### **SUBJECTS TAUGHT**

#### **Undergraduate**

Part-I: Cryptogams, Plant Pathology

Part-II: Phanerogams, Applied Botany

Part-III: Cytogenetics, Molecular Biology, Environmental Biology.

#### **Postgraduate**

Semester I- Phycology, Mycology, Bryology, Pteridophytes, Gymnosperms.

Semester II- Biochemistry, Plant tissue culture, biodiversity.

Semester III- Cell Biology, Cytogenetics, Molecular Biology

Semester IV- Plant Pathology

### **TECHNICAL EXPERTISE**

Softwares – Bioedit, MEGA, Codon code aligner, Microsoft Office, NCBI, BLAST, FASTA, Sequin, BankIt, ExpASy, BOLD, ITS2 database, Primer designing.

Lab equipments – Spectrophotometer, Biospectrometer, PCR, Centrifuge, HPLC, Gel Documentation system, Chromatography, Gel Electrophoresis, UV trans-illuminator

### **JOURNAL PUBLICATIONS**

**Priya A**, Malik S and Babbar SB (2018). *In silico* route towards development of DNA barcodes of Indian medicinal plants in trade. Medicinal Plants 10(4): 261-298.

Malik S, **Priya A** and Babbar SB (2018). Employing barcoding markers to authenticate selected endangered medicinal plants traded in Indian markets. Physiology and Molecular Biology of Plants DOI: 10.1007/s12298-018-0610-8.

Sinha GK, **Priya A**, Priya S and Yadav SN (2017). Synthesis and Biological Activity of Some Schiff Bases from Phthalimides. Universal Journal of Chemistry, HRPUB, USA.

Singh DK, **Priya A**, Malik S, Kapoor R and Babbar SB (2017). Isolation and identification of endophytic fungi from two medicinally important orchids, *Satyrium nepalense* D. Don and *Herminium lanceum* (Thunb. ex. Sw.) Vujik. Medicinal Plants. 9(2): 95-101.

Sinha GK, Narayan S, Yadav SN and **Priya A** (2014). Synthesis and Biological Activity of some Schiff Bases (N-Aminophthalimide Series). ASTR 2(4): 149-160.

#### **SEMINARS/CONFERENCES/ABSTRACTS**

Certificate of participation for completing 7 day online Faculty Development Programme on LibreOffice Impress organized by IQAC, College of Commerce, Arts and Science, Patna in association with Remote Learning through Spoken Tutorial, IIT, **Mumbai** from June 15-21, 2020.

Certificate of participation for attending the 1<sup>st</sup> Lecture Series on Contemporary issues in Botany on the topic “ **Immunity Boosting Higher Plants and Covid-19**” organized by the Department of Botany and IQAC, College of Commerce, Arts and Science, Patna on 10<sup>th</sup> June, 2020.

Certificate of participation for participation in the National webinar on “ **Covid-19: The Everyday Life of Migrant Workers**” organized by S.M.D. college, Punpun on 8<sup>th</sup> June, 2020.

Certificate of participation for attending the national webinar on “ **Environment & COVID-19**” on 5<sup>th</sup> June’ 2020 organized by the GreenJustice Network Foundation.

E-poster presentation on “ ***Employing DNA barcode markers for identification and authentication of herbal samples of traded Indian medicinal plants***” at 8<sup>th</sup> International Barcode of Life Conference, **Trondheim, Norway**, June 17-20, 2019.

Oral Presentation on “ ***Detection of adulteration/substitution in herbal samples of traded Indian medicinal plants using DNA Barcoding***” at 24<sup>th</sup> Biotechnology Congress: Research and Innovations (Bio America 2018), **Boston, USA** from October 24-25, 2018.

Abstract submission on “ ***Orchids Provided Proof-of-Concept for DNA Barcoding in Plants and Paved way for Application of Technology in Checking the Botanical Identities of Herbals and Taxonomic Delimitations***” (March 24-26, 2017) at Graphic Era University, **Dehradun**.

Abstract submission on “ ***DNA Barcoding for Validating the Botanical Identities of Herbals and Taxonomic Delimitations***” (March 9-10, 2017) at Sikkim University, **Gangtok**.

Poster presentation on “ ***Isolation and Identification of endophytic fungi associated with the two medicinally important orchids, *Satyrium nepalense* and *Herminium lanceum****” at the National conference on Basic and Applied Researches in Plants and Microbes at Department of Botany (Patiala University, **Patiala**) from November 3-5, 2016.

Poster presentation on “ ***Authenticating Herbal Market Samples by ITS2***” at National Conference on Plant Science Research: Looking Beyond 21<sup>st</sup> Century for Environmental and Agricultural Revolution at Department of Botany, University of Delhi, **New Delhi**, India from February 5-7, 2016.

Oral presentation on “ ***Synthesis of Biologically Active N-Bis (2'-chloroethyl)amino-methylene- – [p-N-Bis(2-chloroethyl)aminobenzaldimino-phthalimide***

(a Schiff's Base)" at 2013 Hong Kong International Conference on Engineering and Applied Science, **Hong Kong** from December 13-17, 2013.

Poster presentation on "***DNA Barcoding as a Diagnostic Tool for the Identification of Medicinal Plants***" at the 7<sup>th</sup> international conference on ' Plant Biotechnology, Molecular Medicine and Human Health' , at University of Delhi, **New Delhi**, India from October 18-20, 2013.

Poster presentation on "*Studies on Biological Activity of synthetic mannich base nitrogen mustard of 3-aminophthalimide – I*" at the 99<sup>th</sup> The Indian science congress on chemical and applied sciences (organic chemistry), at Kalinga Institute of Industrial Technology (KIIT), **Bhubaneswar**, India from January 3-7, 2012.

**MEMBERSHIP OF LEARNED SCIENTIFIC BODIES/SOCIETIES:**

Life member of The Indian Science Congress

Life member of the Delhi University Botanical Society