

CURRICULUM VITAE

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EDUCATION QUALIFICATIONS:

Course	Year	College/ Institute/ Department	University/ Board	Percentage obtained
Ph. D.	2021	Department of Botany	University of Delhi	Awarded
CSIR-NET	2017	UGC	-	Rank: 60/3597
M.Sc. (Botany)	2016	Department of Botany, Hans Raj College	University of Delhi	74.4
B.Sc. (Hons.) Botany	2014	Hans Raj College	University of Delhi	77.03
Senior Secondary (12 th)	2011	Kendriya Vidyalaya, Konsiwas, Rewari, Haryana	C.B.S.E	85.8
High School (10 th)	2009	Kendriya Vidyalaya, Konsiwas, Rewari, Haryana	C.B.S.E	74.4

Ph.D. THESIS TITLE: “*In vitro* screening, isolation and elicitation of anti-cancerous compounds of *Piper longum* L. and *Cullen corylifolium* (L.) Medik. and therapeutic potential of bio-nanoparticles”

SUPERVISOR: Prof. Veena Agrawal

INSTITUTE: Department of Botany, University of Delhi

ACHIEVEMENTS:

- **Subject topper in district** for securing 96/100, in Hindi subject in class XII board (2011).
- **Young Researcher Award 2023** by Institute of Scholars (InSc.)

WORK EXPERIENCE:

- Joined **Maitreyi College, University of Delhi** as an **Assistant Professor** on permanent basis on January 03, 2024.
- Worked as an **Assistant Professor** in **Starex University, Bhora kalan, Gurgaon** from April 09, 2021 to December 31, 2023.

TOOLS AND TECHNIQUES FAMILIAR WITH:

- **Molecular Biology Techniques:** PCR, Agarose gel electrophoresis, Western blotting, SDS-PAGE, Isolation of Plasmid DNA, Comet assay.
- **Microbiology:** Microbial Culture and maintenance, Microbial Staining, Microscopy.
- **Cell Culture:** Cancer Cell Culture and maintenance, MTT Assay, Acridine orange and Ethidium Bromide, Clonogenic, DNA fragmentation, trypan blue exclusion and COMET assays.
- **Plant Tissue Culture Techniques:** Media preparation, Sterilization of instruments, Glassware and plant material, Direct and Indirect Organogenesis, Rhizogenesis, Somatic embryogenesis, *etc.*
- **Instruments:** PCR Machines, Elisa-Plate reader, U.V. Spectrophotometer, High Performance Liquid Chromatography (HPLC) unit, Soxhlet extraction apparatus Micro and Macro-centrifuge Sonicator, Inverted microscopes and Fluorescence microscopes.
- **Softwares:** Graph Pad Prism, ORIGIN, FTIR-essentials, SPSS statistics IBM 21.
- **Operating System:** Windows, Others: MS Office.

COURSES/TRAINING/WORKSHOP:

- Attended three week summer training on “**Computer Aided Drug Design (CADD)**” from 4th to 25th August, 2022, organized by Centre of Bioinformatics Training and Research (CBTR), Lucknow.
- Demonstrated the experiments of tissue culture techniques in the “**National workshop on Techniques in Plant Sciences (under DBT-STAR)**”, organized by Department of Botany, Sri Venkateswara College, University of Delhi on 4-5th December, 2019.
- Attended a FICCI-IPO IPR Awareness workshop on “**Intellectual Property Rights**” on 15th September 2017, organized at Delhi University Conference Centre, Delhi, India.
- Attended a seminar on “**Identifying and Avoiding Publishing in Predatory Journals: A Lesson for Researchers**” held on 18th March 2017, organized by Department of Botany, University of Delhi, Delhi.

FACULTY DEVELOPMENT PROGRAMME (FDP):

- Successfully completed a one week Faculty Development Programme on “**NEP 2020 ORIENTATION AND SENSITIZATION PROGRAMME**” under Malaviya Mission Teachers Training Programme (MMTTP) of University Grants Commission (UGC), organized by Centre for Professional Development in Higher Education (CPDHE), University of Delhi from 16-25th January, 2024.
- Successfully completed a two weeks Online Training Programme on “**NEP 2020 ORIENTATION AND SENSITIZATION PROGRAMME**” under Malaviya Mission Teachers Training Programme (MMTTP) of University Grants Commission (UGC), organized by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi from 16-30th December, 2023.

- Currently pursuing a Six-month **Faculty Development Programme** on “**Mushroom Cultivation certificate course and Faculty Development Program**” organizing by Department of Microbiology and ENACTUS, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi in association with Microbiologists Society, India w.e.f. October, 2023.

FACULTY INDUCTION PROGRAMME (FIP):

- Successfully completed a four week Faculty Induction/ Orientation Programme for “**Faculty in Universities/ Colleges/ Institutes of Higher Education**” under the aegis of Ministry of Education, Malaviya Mission Teachers Training Programme (MMTTP), organized by Teaching Learning Centre, Ramanujan College, University of Delhi from February 21, 2024 – March 19, 2024 and obtained **Grade A+**.

PUBLICATIONS IN PEER-REVIEWED JOURNALS:

- **Yadav, Renuka;** Saini, H.; Kumar, D.; Pasi, S. & Agrawal, V. 2019. Bioengineering of *Piper longum* L. extract mediated silver nanoparticles and their potential biomedical applications. **Material Science and Engineering C (Elsevier)**, 104, 109984. **(IF:7.9)**
- Singh, T.; **Yadav, Renuka;** & Agrawal, V. 2019. Effective protocol for isolation and marked enhancement of psoralen, daidzein and genistein in the cotyledon callus cultures of *Cullen corylifolium* (L.) Medik. **Industrial Crops and Products (Elsevier)**, 143, 111905. **(IF:5.9)**
- Saini, H.; **Yadav, Renuka;** Kumar, D.; Kumar, G. & Agrawal, V. 2020. *Cullen corylifolium* (L.) Medik. seed extract, an excellent system for fabrication of silver nanoparticles and their multipotency validation against different mosquito vectors and human cervical cancer cell line. **Journal of Cluster Science (Springer Nature, Switzerland)**, 31: 161-175. **(IF:3.061)**

PRESENTATION TO CONFERENCES:

- **Yadav, R.;** Saini, H.; Kumar, D.; Kumar, G. & Agrawal, V. 2019. Strong Larvicidal Potential of Herbal extract mediated Silver Nanoparticles against Mosquito vectors causing Malaria, Filariasis and Dengue. 30th National Congress of Parasitology & Global Summit on Malaria Elimination (NCP-GSME 2019) at JNU, New Delhi, India, *w.e.f.* 26-28th September, 2019, pp-272.
- **Yadav, R.;** Kumar, D. & Agrawal, V. 2018. Green synthesis of silver nanoparticles using *Piper longum* L. leaf extract and their strong bio-efficacy studies against Human cervical cancer cell line (HeLa) and Malaria and Dengue vectors. 3rd Annual Conference of Indian Society of Nanomedicine at AIIMS, New Delhi, India, *w.e.f.* 24-27th October, 2018, pp-100.
- **Yadav, R.;** Kapoor, H. & Agrawal, V. 2017. *In vitro* conservation and evaluation of anti-cancerous activity of two important medicinal plants (*Piper longum* and *Nardostachys jatamansi*) against human glioblastoma cancer cell line. XXXVIII Annual Meeting of Plant Tissue Culture Association (India), National Symposium on Plant Tissue Culture and Biotechnology: Current prospective on Medicinal and Crop Plants held at CSIR- Indian Institute of Chemical Biology, Kolkata, India, *w.e.f.* 3-5 March, 2017.

MEMBER OF ORGANIZING COMMITTEE

- Organized a workshop on “**Intellectual Property Rights (IPR)**” in **collaboration with Controller General of Patents, Design and Trade Marks (CGPDTM)** held on 13th May 2022 at Starex University, Gurugram.
- Organized a seminar on “**Jal Sakti Abhiyan: Catch the Rain**” held on April 21, 2023 at Starex University, Gurugram.

EXTRA CURRICULAR ACTIVITIES:

- Volunteer in FLORISTIC, February, 2013 held at Hansraj College, University of Delhi in 2013.
- Awarded 3rd position in the national level kayaking competition of Kendriya

Vidhyalaya Sangathan in the year 2007-08, held at Bhopal.

- Awarded 1st position in the Regional level Kayaking competition of Kendriya Vidhyalaya Sangathan in the year 2007-08, held at Mumbai.
- Secured 3rd position in the Open National Rowing Championship in the year 2006-07, held at Hyderabad.