Curriculum Vitae of Dr. Vineeta Dixit

Department of Botany
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Profile

More than 5 years of experience in teaching and research at the university and college level. Commitment to helping university students develop their full potential in their studies. Strong philosophy of teaching, and knowledge of many different methods to motivate students to develop their expertise in specific areas. Dedicated partner to university programs and outreach events that help promote learning and support the community.

Skills

Exemplary skills in reading, analysis, research, critical thinking, and writing, giving me the optimal tools to make further advances in the field. Strong oral communicator and lecturer in the classroom, and effective written communicator to students and other staff members. Excellent coaching, teaching, and motivational skills when working with individual students and encouraging them to work to their potential. Friendly and personable, making interactions with students and colleagues pleasant even when discussing ways students should improve. Solid ability to stay organized and on top of important deadlines when teaching a full load of classes each semester.

Teaching Experience

Assistant Professor *Guru Ghasidas Central University Koni, Bilaspur, C.G., India*

Assistant Professor *D.L.S. P.G. College, Sarkanda, Bilaspur, C.G., India*

Assistant Professor *Guru Ghasidas Central University Koni, Bilaspur, C.G., India*
Lecturer *Institute of Pharmacy, Harish Chandra P.G. College, Varanasi, India*

Research Experience

Post-doctoral Fellow
Division of vegetable science, IARI, Pusa Campus, New Delhi, India.
UGC Research Fellow
(UGC Fellowship for Meritorious Students (RFSMS)
Department of Botany, Banaras Hindu University, Varanasi, U.P. India
BHU Research Fellow (Topper BHU CRET)
Department of Botany, Banaras Hindu University, Varanasi, U.P. India

- Worked on Or gene introgression in Indian cauliflower varieties using molecular markers.

- Expertise in plant tissue-culture techniques including haploid (anther and microspore culture) and tetraploid development, synthetic seed formation and somatic embryogenesis.
- Customized in vivo and *in- vitro* production of secondary metabolites in plants. Personalized thymoquinone and allicin assay (active principle of black cumin oil and garlic respectively) using HPLC and GC.
- Generation and screening of micro as well macro-mutants in plant of choice.
- Experience in microscopy and molecular techniques including PCR, SDS-PAGE, Western blotting.

EDUCATION

- **Doctor of Philosophy (Botany)** **December 2011**
  Banaras Hindu University, Varanasi, Uttar Pradesh, India.

- **Masters of Science (Botany)** **June 2005**
  UdaiPratap Autonomous College, Varanasi, Uttar Pradesh, India.

- **Bachelors of Science** **June 2003**
  UdaiPratap Autonomous College, Varanasi, Uttar Pradesh, India.

Technical Expertise

- Chromatography such as Thin Layer Chromatography, High Performance Liquid Chromatography, Gas Chromatography.
- PCR based genetic variability studies, Molecular cloning, qRT PCR.
- Plant tissue culture, Karyogram and Idiogram preparations.
- Spectrophotometric scanning of metabolites and their quantitative estimation.
- Western blotting and microscopic techniques.

Awards

- ***Research Fellowship for meritorious students*** Awarded by University Grant Commission for the year 2009 - 2011.
- ***Junior Research Fellowship*** Awarded by Banaras Hindu University for the year 2006-2008.
- Qualified ***National Eligibility Test*** (**CSIR-NET**) conducted by Council of Scientific and Industrial Research in year 2006.

Professional Affiliations

- Indian Science Congress **Life Member**

Professional Trainings

- Participated in 3 days symposium and workshop entitled "*Symposium and Workshop on Statistical Methods in Computational Biology*" conducted by Mahila Mahavidyalaya, Banaras Hindu University, Varanasi, India.
- Participated in 10 days workshop on "*Chromatography and Molecular biology Techniques*(PCMB 08)"organized by the School of Biotechnology, Chemical and Biochemical Engineering, VIT University, Vellore, Tamil Nadu, India.
- Participated in "*Science and Communication workshop"* organized by The Wellcome Trust/DBT India Alliance in Banaras Hindu University, Varanasi, India.

Publications

1. Computer-assisted drug designing of triazole derivative of noscapine as tubulin-binding anticancer drug (2018) Puja Kumari and, **Vineeta Dixit et al.** Asian Journal of Pharmaceutical And Clinical Research Vol 11 (2). 69-75
2. Changes in ploidy and its effect on thymoquinone concentrations in *Nigella sativa* L. seeds (2015) **Vineeta Dixit,** Verma S, Chaudhary BR. Journal of Horticultural Science & Biotechnology **90 (5).**537–542
3. Identification and ligand based virtual screening of 1,4-dihydropyridine analogues as novel calcium channel blockers (2015) Singh SK, Naik PK, Vishwakarma NK, **Vineeta D**. International Journal in Research Studies in Biosciences **3 (8)** 107-114
4. Induced genomic and ploidy alterations in *Allium sativum* with emphasis on allicin content **(**2014) **Vineeta Dixit and** Chaudhary BR. Journal of Horticultural Science & Biotechnology **89 (5)** 585–591.
5. Effect of EMS and SA on meiotic cells and thymoquinone content of *Nigella sativa* L. cultivars (2013) **Vineeta Dixit**, Rajani P, Chaudhary BR. Caryologia **66 (1)** 178-185
6. *Allium sativum*: Four step approach to efficient micropropagation **(**2013) **Vineeta Dixit and** Chaudhary BR.. International Journal of Innovative Biological Research. **2 (1)** 6-14
7. Sodium azide induced polygenic variability in *Nigella sativa* L. (2012) **Vineeta Dixit**, Rajani P, Chaudhary BR. Bot Res Int **5 (1)** 14-19
8. Comparative spectrum of chemical mutagen responsiveness in plants (2011) Rajani P, **Vineeta Dixit**, Chaudhary BR. World Journal of Agriculture Sciences, **7 (1)** 104-108
9. Sodium azide induced mutagenesis in fenugreek (*Trigonella foenum graecum*) (2010) Rajani P, **Vineeta D**, Chaudhary BR. Legume Research **33 (4)** 235-241
10. Comparative spectrum of azide responsiveness in plants (2010) Rajani P, **Vineeta D**, Chaudhary BR. *Amer-Eur J Ag Env Sc* **8 (6)** 779-783

Platform/Poster Presentations

- Present a paper in a national conference of Indian Science Congress Association organized by University of Mysore, India. 2016.
- Presented a paper in "National Seminar on Innovation and Research in Science, Management and Technology". Bilaspur, Chhattisgarh, India. 2015.
- Participated in interactive meeting on "Double Haploids: Scope and Future in Horticultural Crops" organized by Society for Promotion of Horticulture and Indian Institute of Horticultural Research, Bengaluru, India. 2013.

- Attended and presented a paper in 8th National Conference on Recent Advances in Biodiversity Conservation, Biotechnology and Environment Management Reseach organized by Department of Biotechnology, Science College, Rewa, India. 2013.
- Presented a paper in "XXXIII Conference of Indian Botanical Society and International Symposium on the New Horizons of Botany" organized by Department of Botany, Shivaji University, Kolhapur, India 2010.
- Attended and presented a paper in symposium entitled "Current Challenges in Plant Sciences-Gene to Ecosystem" organized by Department of Botany, Banaras Hindu University, Varanasi, India. 2009
- Attended 3 day symposium entitled "Plant Genome: Biodiversity, Conservation and Manipulation" organized by Department of Botany, Banaras Hindu University, Varanasi, India. 2007