



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

(Phone No. - 011-7121 9084 : Email - principal@kmc.du.ac.in)



Print Date : 16-04-2026

## 1. Personal Profile

Title: **Dr.** First Name: **VIBHA** Last Name: **G. CHECKER**

Designation: **ASSISTANT PROFESSOR** Mobile No. -----

Phone No. (Office) ----- Phone No. (Residence): -----

Email: **vibha.gulyani@kmc.du.ac.in** Webpage: -----



Facebook: ----- Twitter: -----

LinkedIn: ----- Instagram: -----

Youtube: ----- Research Gate Link: -----

Google Scholar Link: <https://scholar.google.com/citations?user=kQIIF0kAAAAJ&hl=en>

Address: -----

## 2. Educational Qualifications

Degree/ Certification	Institution	Year
B.Sc. (Botany)	Kirori Mal College, University of Delhi	2003
M.Sc. (Botany)	Kirori Mal College, University of Delhi	2005
NET-JRF	UGC	2005

## 3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	BOTANY MIRANDA HOUSE, DELHI	02.Jan.2012 - 22.May.2013	
CAREER PROFILE	ASSISTANT PROFESSOR	BOTANY KIRORI MAL COLLEGE, DELHI	24.Jul.2013 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	IQAC Kirori Mal College University of Delhi	04.Jul.2023 - Till date	

ADMINISTRATIVE ASSIGNMENTS	CO-CONVENER	FOREIGN LANGUAGE COURSES COMMITTEE Kirori Mal College	05.Jan.2024 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PKIS Kirori Mal College	03.Jan.2024 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	KARTAVYA- THE CIVIL SERVICE SOCIETY Kirori Mal College	20.Jul.2022 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ENACTUS SOCIETY Kirori Mal College	16.Aug.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	GARDEN COMMITTEE Kirori Mal College	16.Aug.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	STANDING COMMITTEE FOR MONITORING ADMISSIONS Kirori Mal College	08.Jun.2023 - Till date	

#### 4. Other Profiles

##### Other Profile Name/ Description

##### UG/ PG RESEARCH PROJECTS/ INTERNSHIPS

1. Along with Dr. Renu Kathpalia provided training to Bhanu Pratap Singh and Shamli Jasrotia (Botany Hons. VI Semester students) on the topic "Effect of silver nanoparticles on the uptake of IAA by *Cicer arietinum* seedlings Explant" Under the DBT star college scheme.

##### UG/ PG RESEARCH PROJECTS/ INTERNSHIPS

1. Along with Prof. Rajni Gupta and Dr. Leena Shakya I co-mentored Mr. Vipul Chugh and Lalit Kishore (Botany Hons. IV Semester Students) on the topic "Preliminary screening for the assessment of the antifungal activity in the leaves of medicinal plants *Cassia fistula*, *Mangifera indica* and *Citrus sp.*". Under the DBT star college scheme.

##### UG/ PG RESEARCH PROJECTS/ INTERNSHIPS

Along with Dr. Renu Kathpalia, Dr. Yamal Gupta, provided training to Kirti Ruhella, Lekha, Permila, Pragya Chauhan, and Swati Singh (Botany Hons. VI Semester students) on the topic "Biochemical techniques in research: Research methodology" Under the DBT star college scheme.

##### UG/ PG RESEARCH PROJECTS/ INTERNSHIPS

2024 UG Project

"To study the effect of size of nanoparticles of *Azadirachta indica* on antimicrobial properties.

Mr. Shivesh Raj Singh (Kirori Mal College, B.Sc. H Botany II SEM)

Ms Aastha Malhotra (Hansraj College, B.Sc. H Zoology II SEM)

Ms Sanskriti Singh (Bhaskaracharya College of Applied Sciences, B.Sc. H Microbiology IV SEM)

#### WORKSHOP/ SEMINAR/ CONFERENCE/ WEBINAR ORGANIZED

A lecture cum interactive session was organized on "Funding Schemes for teachers in Higher education" on March 9, 2024 by Dr. Shahaj Uddin Ahmed, Scientist F, Department of Biotechnology for teachers

#### FACULTY DEVELOPMENT PROGRAM (FDP) ORGANIZED

Organizing Member in One week Skill Enhancement Programme for Non-Teaching Staff of University of Delhi from 25 to 29 September 2023.

#### FACULTY DEVELOPMENT PROGRAM (FDP) ORGANIZED

Co-Coordinator for an online NEP Orientation and Sensitization Programme from 7 May 2024 to 16 May 2024. The course was jointly organised by Kirori Mal College and Centre for Professional Development in Higher Education (CPDHE), UGC - Malaviya Mission Teacher Training Centre (MMTTC), University of Delhi

#### FIELD TRIPS ORGANIZED

One day trip of students to YAKULT COMPANY, Sonipat, Haryana on April 9, 2024.

#### SYLLABUS FORMATION

Preparation of the course content of "DSE-Immunological Concepts and Applications in Plant Science" for UG Students of BOTANY (H) SEM VIII

#### SYLLABUS FORMATION

Preparation of Guidelines for the teaching of **practical** of the course 'Sem VI, NEP : DSC\_ Advanced Tools and Techniques in Plant Biology, for **B.Sc.(H) Botany/Life Sciences**

### 5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status
------	-----------	-----------------------------------	--------------	--------

### 6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
2025	Ecotoxicological Assessment of Wastewater from Sahibi River, New Delhi, Using Seed Germination and Early Seedling Growth Assays	KMC under "Principal Research Excellence Scheme (PRES)	1 year	40,000/-	10.Jun.2025

### 7. Publications

<b>Category</b>	<b>Publication Name</b>	<b>Title</b>	<b>Name of Author</b>	<b>Reference Link/ DOI Link</b>	<b>Publication (Month-Year)</b>
JOURNAL PAPER (International)	Overexpression of HVA1 gene from barley generates tolerance to salinity and water stress in transgenic mulberry ( <i>Morus indica</i> ).	Transgenic Research	Shalini Lal, Vibha Gulyani and Paramjit Khurana (Joint Author)	<a href="https://doi.org/10.1007/s11248-007-9145-4">https://doi.org/10.1007/s11248-007-9145-4</a>	September 2008
JOURNAL PAPER (International)	The advent of genomics in mulberry and perspectives for productivity enhancement.	Plant Cell Reports	Paramjit Khurana and Vibha G. Checker (Joint Author)	<a href="https://link.springer.com/article/10.1007/s00299-011-1059-1">https://link.springer.com/article/10.1007/s00299-011-1059-1</a>	March 2011
JOURNAL PAPER (International)	Identification and expression profiling of drought regulated genes in mulberry ( <i>Morus indica</i> ) by suppression subtractive hybridization of susceptible and tolerant cultivars.	Tree Genetics and Genomes	Vibha Gulyani and Paramjit Khurana (First Author)	<a href="http://www.springerlink.com/content/l87k346h540378...">http://www.springerlink.com/content/l87k346h540378...</a>	February 2011
JOURNAL PAPER (International)	Stress-inducible expression of barley Hva1 gene in transgenic mulberry displays enhanced tolerance against drought, salinity and cold stress	Transgenic Research	Vibha G. Checker, Anju K. Chhibbar and Paramjit Khurana (First Author)	<a href="https://link.springer.com/article/10.1007/s11248-011-9577-8">https://link.springer.com/article/10.1007/s11248-011-9577-8</a>	October 2012
JOURNAL PAPER (International)	Analysis of expressed sequence tags from mulberry ( <i>Morus indica</i> ) roots and implications for comparative transcriptomics and marker identification.	Tree Genetics and Genomes	Vibha Gulyani Checker, Bushra Saeed and Paramjit Khurana (First Author)	<a href="https://doi.org/10.1007/s11295-012-0531-6">https://doi.org/10.1007/s11295-012-0531-6</a>	June 2012

JOURNAL PAPER (International)	Molecular and functional characterization of mulberry EST encoding remorin (MiREM) involved in abiotic stress.	Plant Cell Reports	Vibha Gulyani Checker and Paramjit Khurana (First Author)	<a href="https://doi.org/10.1007/s00299-013-1483-5">https://doi.org/10.1007/s00299-013-1483-5</a>	August 2013
JOURNAL PAPER (National)	Nanoinformatics - A newly introduced tool for research	Indian Journal of Biochemistry and Biophysics	Vibha Gulyani Checker, Bhavana Sharma, Renu Kathpalia (First Author)	<a href="https://doi.org/10.56042/ijbb.v59i4.61939">https://doi.org/10.56042/ijbb.v59i4.61939</a>	April 2022
JOURNAL PAPER (International)	Environmental Nanotechnological Applications for Sustainable Agriculture	Indian Journal of Biochemistry and Biophysics	Renu Kathpalia, Vibha Gulyani Checker, Bhavana Sharma Jha and Tanushri Saxena (Joint Author)	<a href="https://doi.org/10.56042/ijbb.v59i11.65740">https://doi.org/10.56042/ijbb.v59i11.65740</a>	November 2022
JOURNAL PAPER (International)	Metabolic engineering for enhanced terpenoid production: Leveraging new horizons with an old technique	Plant Physiology and Biochemistry	Kumari M, Checker VG, Kathpalia R, Srivastava V, Singh IK, Singh A (Joint Author)	<a href="https://doi.org/10.1016/j.plaphy.2024.108511">https://doi.org/10.1016/j.plaphy.2024.108511</a>	May 2024
JOURNAL PAPER (International)	Global bibliometry on three decades of methyl jasmonate-induced plant defense research reveals growth of a specialty area in biology	J Appl Biol Biotech	10. Chugh V, Kumari K, Yamal G, Checker VG, Yadav G, Kathpalia R. (Joint Author)	<a href="https://doi.org/10.7324/JABB.2025.218785">https://doi.org/10.7324/JABB.2025.218785</a>	May 2025

## 8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number
BOOK (International)	Survival Strategies and Plant Intelligence	Lal, M.A., Wattal, R.K., Kathpalia, R., & Checker, V.G. (Joint Author)	CRC Press / Taylor & Francis	978-1-032-97660-0

## 9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From- To
2020	FACULTY INDUCTION PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education"	26.Jun.2020 - 24.Jul.2020
2021	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	National	Advanced Concepts in Developing MOOCS	06.Oct.2021 - 20.Oct.2021
2022	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education"	21.Dec.2022 - 19.Jan.2023
2023	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	National	Refresher course in 'BOTANY'	18.Feb.2023 - 04.Mar.2023
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	Entrepreneurship, Incubation and Innovation	23.Jun.2020 - 29.Jun.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	ICT: Instructional Design, Development and Learning Analytics	24.Jul.2020 - 30.Jul.2020
2020	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Innovation in Scientific Research Methods	14.Oct.2020 - 18.Oct.2020
2021	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Environmental Audit	28.Jun.2021 - 02.Jul.2021
2021	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Applications of Genomics, Metagenomics and Bioinformatics in Biological Systems	16.Aug.2021 - 20.Aug.2021

2022	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	First-Hand Experience on SPSS-Introductory Module	16.Aug.2022 - 22.Aug.2022
2022	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Basic IT tools, Advanced Spreadsheet Tools and Statistical Software Package with SPSS	27.Oct.2022 - 03.Nov.2022
2023	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	National	Research Methodology and Data Analysis	28.Jul.2023 - 10.Aug.2023

**Dr. VIBHA G. CHECKER**