

C.V. of Dr. Anjali Malik

Personal Details:



1. Full Name: Anjali Malik
2. Father,s Name: Shri. Gajai Pal Singh
3. Mother,s Name: Smt. Rajkumari
4. Date and Place of Birth: 02.10.1976 (Bulandshahr, Uttar Pradesh)
5. Present Professional Status: Lecturer/Teaching Assistant
Department of Microbiology, Chaudhary
Charan Singh University, Meerut (250004)
6. Phone number: 9897177874, 8279451693
7. E.Mail. anjalimalik2007@gmail.com
8. Permanent Address: House no. 534-A behind shanty Building
Krishahna Nagar, Bulandshahr (203001)
9. Present Address: B-111, Shastri Nagar, Meerut (250004)
10. Language known: Hindi and English
11. Nationality: Indian
12. Marital Status: Married

13. Spouse Name: Shri. Atul Kumar
14. No. of children: One (Rudrabhishek Singh)

Professional Strength:

- Teaching and Research Experience: 21 years
- Teaching and Research Experience (M.Sc.): 10 Years
- Teaching and Research Experience (M.Phil.): 21 years
- Teaching and Research Experience (Ph. D.): 07 years
- Experience as M.Phil Supervisor: 21 Years
- Experience as a Ph. D. supervisor: 07 years
- Experience in UG Teaching: 05 years

Nature of Duties:

- Teaching of M.Phil Microbiology Courses
- Teaching and Practicals of M.Sc. Microbiology (CBCS) Courses
- Teaching and Practicals of M.Sc. Applied Microbiology Courses
- Teaching and Practicals of M.Sc. Medical Microbiology Courses
- Teaching and Practicals of M.Sc. Bioinformatics courses
- Teaching and Practicals of B.Sc. Food Microbiology, Safety and quality control
- Project work training for M.Sc. Microbiology (CBCS)
- Project work training of M.Sc. Applied Microbiology
- Project work for M.Phil. Microbiology
- Development of curricula for M.sc and B.sc. students
- Guiding and Conducting Research

Academic Activities:

- Member of Board of Studies of Department of Microbiology, Chaudhary Charan Singh University, Meerut
- Assistant Controller in the evaluation of Back /Special Back and Professional Semester Examination Chaudhary Charan Singh University (2021)
- Member of Flying Squad in Chaudhary Charan Singh University Centralized Examinations

Examination, Paper Setter and Evaluation:

- Performed duties as Invigilators continuously from 2008 in Chaudhary Charan Singh University Centralized Examinations and in Entrance Examination
- Paper setter for M.Sc. Microbiology, M.Sc. Botany and B.Sc. Microbiology and B.Sc. Biotechnology for various Universities

- Regularly perform the duties of evaluation in campus examination Chaudhary Charan Singh University
- Regularly perform the Practical Examiner duties in B.Sc. Biotechnology, B.Sc. Botany and B.Sc. Microbiology Practical Examinations of various affiliated colleges of Chaudhary Charan Singh University.

Practical Examiner and Paper Setter of Different Universities

- Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan, Mathura (U.P.)
- Dr. Bhim Rao Ambedkar University, Agra

Research interest and Research work carried out:

- Cytogenetics, Bacteriocin production from bacteria, Amylase production from microbes, Isolation, purification, identification and characterization of microbes from food, water, air and soil environment. Isolation of antibiotic resistant microbes.

Qualifications

- **Ph.D. in Botany** from Department of Botany, C.C.S. University, Meerut
- **Ph.D. thesis title:** “Cytogenetic evaluation and manipulation of the genus *Carthamus L.*”
- **Master of Science (Botany)** passed out from I.P. (P.G.) College Bulandshahr C.C.S. University, Meerut
- **Three Years Degree Course (Botany, Zoology, and Chemistry)** passed out from I.P. (P.G.) College Bulandshahr, C.C.S. University, Meerut U.P.
- **Intermediate (Botany, Zoology, Physics and Chemistry)** passed out from U.P. Board Allahabad U.P.
- **High School (Botany, Zoology, Physics and Chemistry)** passed out from U.P. Board Allahabad U.P.

Academic profile

- Completed research on “**Cytogenetic Evaluation and Manipulation of the Genus *Carthamus L.***” from the Department of Botany. C.C.S. University, Meerut.
- Appointed as **Junior Research Fellow** in the research project approved by Department of Science and Technology, New Delhi.

Awards:

- Achieve **Young Microbiologist Award** on the occasion of International Conference on Emerging trends in Allied & applied Biotechnology ICAABT- 2017 in Orcha M.P HELD during 01-02 April 2017
- Achieve **Excellence award in teaching and research in microbial & plant science** on the occasion of International Conference on Agricultural, Allied and Applied Sciences ICAAAS- 2018 in New Delhi during 28-29 April 2018

Member of Editorial Board of journals:

- **Member of Editorial Board of Journal of Virology and Immunology** internationally peer reviewed journal published by Medwin publisher

Membership

- Life member of The Indian Science Congress
- Life member of The Indian Science Congress Association Haridwar Chapter

Paper publication:

International Publications

1. **Malik, A.** and A.K.Srivastava (2009) “**3D Somatic karyotype analysis in *Carthamus tinctorius***” *Cytologia* Japan **73** (4): 365-369. ISSN NO. 011-4585 **Impact factor 0.242**
2. **Malik, A.** and A.K.Srivastava (2009) “**Karyotypic analysis of different populations of of *Carthamus tinctorius* Linnaeus (Asteraceae)**” *j. comp.Cyto.* Bulgaria 3(1): 51-55. ISSN NO. 1993-078x **Impact factor 1.211**
3. **Malik, A.** and A.K.Srivastava (2009) “**The fine structure of Safflower (*Carthamus tinctorius* L.) Chromosomes as revealed by pachytene analysis**” *Cytologia* Japan 74 (3): 289-293. ISSN NO. 011-4585 **Impact factor 0.242**
4. Sharma, D., P.K. Sharma and **A. Malik** (2011) “**Prevalence and Antimicrobial Susceptibility of Drug Resistant *Staphylococcus aureus* in Raw Milk of Dairy Cattle**” International Research journal of Microbiology, Nigeria Vol. 2(11) pp. 466-470, December 2011 ISSN NO. 2141-5463
5. **Malik, A.** and A.K.Srivastava (2010) “**Effect of colchicine on male meiosis of *Carthamus*** (Accepted) (*Caryologia: International Journal of Cytology, Cytosystematics and Cytogenetics* Florence, Italy). ISSN NO. 2165-5391 **Impact factor 0.849**
6. Sharma, D. and **A. Malik** (2012) “**Incidence and prevalence of antimicrobial resistant *Vibrio cholera* from dairy farms**” Vol. 6(25), pp. 5331-5334, 5 July, 2012 African journal of Microbiology Research Africa. ISSN NO. 1996-0808 **Impact factor 0.54**
7. **Malik, A.** and A.K.Srivastava (2012) “**Karyological studies in twelve accessions of *Carthamus tinctorius***” pp.1-6 in *caryologia: International Journal of Cytology, Cytosystematics and Cytogenetics* Florence, Italy Online by Taylor and Francis group ISSN NO. 2165-5391 **Impact factor 0.849**
8. Sharma, D., P.K. Sharma, B. S. Saharan and **A. Malik** (2012) “**Isolation, Identification and Antibiotic Susceptibility Profiling of Antimicrobial Resistant *Listeria monocytogenes* from Dairy milk**” International Journal of Microbial Resource Technology, Vol.1, No.1 (Jan 2012) pp. 1-4 ISSN NO. 2278-3822 **Impact factor 0.425**

National Publications

9. **Malik A.** and A.K. Srivastava (2006) “**Three dimensional karyotypic studies in different species/accessions of *Carthamus***” *J. Cytol.Genet.*7 (2)149-153. ISSN NO. 0253-7605

10. Malik A (2007) “Cytogenetic study of the induced translocation heterizyosity in *Carthamus*” in *J.Phytol.Res.*20(1): 143-146 ISSN NO. 0970-5767
11. Malik A. and A.K. Srivastava (2008) “Induced autopolyploidy in *Carthamus*” *J.cytol.Genet.* 8 (2) 75-82. ISSN NO. 0253-7605
12. Malik A. (2008) “Pachytene chromosome studies in fourteen accessions of *Carthamus L.*” *Proc. Nat. Acad. Sci. India, Sec. B, Vol. 78, Pt. I, 56-60.* ISSN NO.2250-1746 **Impact factor 0.396**
13. Malik A. and A.K.Srivastava (2010) “Effect of different doses of gamma rays on seed germination of *Carthamus*” *Proc. Nat. Acad. Sci. India Sect. B, Vol. 80, Pt. I 98-102.* ISSN NO.2250-1746 **Impact factor 0.396**
14. Malik, A. and A.K.Srivastava (2009) “Effect of colchicine on male meiosis of *Carthamus*” in *journal of Phytological Research* 22(2): 301-306. ISSN NO. 0970-5767
15. Dhillon j., A. Malik and I. Singh (2017) “Study on antimicrobial screening of indian spices extracts on *E. coli*, *S. aureus* and *Pseudomonas sp.* Isolated from street vended fruit juices. *Indian Research Bulletin* March 2017 Vol. XII issue 76-84 ISSN No. 2348-1315
16. Moolendra, Triveni Sharma, **Anjali Malik** and Neeraj Tandan (2018) “Morphological based genetic diversity studies of *Coepea*.” *Plant Archives* Vol. 18, Special Issue (ICAAAS-2018), 2018 pp. 227-231 *ISSN 0972-5210*
17. Moolendra, Triveni Sharma, **Anjali Malik** and Neeraj Tandan (2018) “ RAPD based genetic diversity assessment of *Coepea*.” *Plant Archives* Vol. 18 No. 2, 2018 pp. 2383-2388 e-ISSN:2581-6063 (online), ISSN:0972-5210

Papers presented/Participated in Conference/Symposia

1. Paper presented in Eighth all India conference on cytology and genetics Bangalore held on January 23-25 2001
2. Paper presented in National Seminar on Environmental Hazards and future generations BHEL Hardwar held on may 11-12 2002
3. Paper presented in National Symposium on Biosciences: Advances, impact and Relevance held on October 27-29 Bareilly.
4. Paper presented in Ninth All India Conference on Cytology and Genetics Hyderabad held on 6-8 November 2003.
5. Participated in National colloquium on the topic “Wildlife conservation and animal welfare issues in India” organized by Department of Zoology Meerut College Meerut on 22nd October, 2005.
6. Participated in the seminar cum workshop on Bioresource conservation and utilization held on March 27-29, 2009
7. Attended the National Seminar on the topic “Challenges and opportunities in evolutionary and reproductive biology of plants” organized by Department of Botany C.C.S.University Meerut in December 10-11, 2009.
8. Participated in the National conference on “Traditional conservation of plant biodiversity and energy resources vis-à-vis biotechnological tools for sustainability organized by

Society for Plant Research and Dept. of Botany, C.C.S. University Meerut in Dec. 25-26, 2010

9. Attended the International Conference on “Issues for climate change, land use diversification and biotechnological tools for livelihood security” organized by Hi-Tech Horticultural Society Meerut held on October 8-10, 2011
10. Attended the National Conference on “Current Trends in Biotechnology 2012” organized by K.V.A. D.A.V. College for woman, Karnal held on April 03, 2012
11. Paper presented in National Conference on “Climate change: Socio-Economic and Environmental Issue-Problems and challenges” held on April 21-22, 2013 in Meerut College Meerut
12. Paper presented in National conference on Energy, Environment and biotechnology Research held on October 5-6, 2013 in Mewar Institute of Management Ghaziabad
13. Paper presented in National Seminar on Environmental pollution, consequences and management held on November 30-01 December 2013 in Krishana College of Sciences and information technology, Bijnor
14. Attended the National Conference on Innovations in science and Technology for Inclusive Development held on March 22-23, 2014 in C.C.S. University Meerut
15. Paper Presented in International Conference on Embracing the innovations and upgradation of technologies in pharmaceutical sciences held on March 27-29, 2014 in School of Pharmacy Anurag Group of Institutions Hyderabad.
16. Paper Presented in International Conference on Life science and Bioengineering held on November 22-23, 2014 in IAMR Ghaziabad
17. Participated in National seminar on Challenges in plant sciences: Now and then” held on December 8-10, 2015 in the Department of Botany C.C.S. University Meerut
18. Paper presented in National seminar on “ Environmental scenario: Climate change and sustainable development” held on January 30, 2016 Krishana College of Sciences and information technology, Bijnor
19. Participated in National seminar on Challenges of climate change and green environmental solutions held on December 2016 in the Department of Botany C.C.S. University Meerut
20. Paper presented in National seminar on “ Environmental issues and challenges in present scenario” held on March 13-14, 2016 in Sanjay Gandhi (P.G.) College, Sarurpur Khurd, Meerut.
21. Participated in National seminar on “Opportunistic human pathogens” held on June 25, 2016 in Department of Microbiology, C.C.S. University Meerut
22. Paper presented in National Seminar on Agriculture Research and Education in relation to development of integrated Agriculture: Challenges & solutions organized by U.P. Council of Agriculture Research held on June 14, 2017 held in Lucknow.
23. Participated in International conference on Emerging trends in Allied and Applied Biotechnology. Held on April 01-02, 2017 Orcha, M.P.

24. Participated as a delegate in National Conference on Emerging trends in Agriculture Sciences and its impact on sustainable livelihood organized by Society for scientific and social development Meerut & Shobhit University, U.P.
25. Participated in the Three Week Interdisciplinary Faculty Recharge/ Enrichment of Teacher Course from 10th June 2017 to 30th June 2017 organised by the all Star Departments Under UGC, CPE Meerut College Meerut and obtained “A” Grade.
26. Participated in International conference on Emerging trends in Biological, chemical and physical sciences. Held on December 09-11, 2017, Kathmandu, Nepal.
27. Paper presented in an International Conference on Advances in Agricultural and biodiversity Conservation for Sustainable development (ABCD-2017) on the topic “Isolation, screening and characterization of Lactic Acid Bacteria from fermented food and their antimicrobial activity against the food pathogens held on 27 Oct. to 28 Oct. 2017 at C.C.S. University, Meerut.
28. Paper presented in National Seminar on Recent Technological Trends in Environmental Issues: Need & Challenges” on the Topic “Climate Change and Public Health” held on January 21, 2018 Krishna College of Sciences and information technology, Bijnor
29. Paper Presented in National Conference on Recent trends in Basic & Applied Sciences for Sustainable Environment (RT- BASE) on the topic of Bioremediation A comparison of insitu and Ex situ Techniques of contaminated soils. Held on 01 and 02 February 2018 in Swami Vivekananda Subharti University Meerut
30. Participated in National Symposium on Helminthiasis and their control measures and Annual meeting of Helminthological society of india held on 30-31, March 2018 held in C.C.S. University Meerut.
31. Paper presented in International Conference on Agriculture, Allied & Applied Sciences held on 28-29 April, 2018 held in New Delhi.
32. Paper presented in National Seminar on Biodiversity and Environment Governance in India: Safeguarding Ecosystem for Human Welfare held on 23rd October 2021 on the topic Impact of Environmental stress on Crop Productivity.

Training courses/Workshop attended:

1. Attended the training workshop on “Recent techniques in Biosciences” (RTB 2007) at Department of Biosciences, D.A.V.College Muzaffarnagar C.C.S.University Meerut held from November 27 to December 10, 2007
2. Participated in the National Workshop on “Techniques for in vitro farming, isolation and characterization of secondary metabolites for sustenance of medicinal plants” organized by Department of Botany C.C.S.University Meerut in March 07-12, 2011
3. Attended the National workshop and hands on training on plant gene repository and plant gene database handling held on February 20-22, 2014 in National Plant Gene Repository National Institute of Plant Genome Research

4. Attended the Interational workshop on Advanced Biological Techniques and Intellectual Property Rights organized by Department of Botany, C.C.S. University, Meerut during 27-28 July 2018
5. Attended National workshop on Identification of Mushrooms and their cultivation organized by Department of Botany, C.C.S. University, Meerut on October-3, 2018
6. Participated in the Three Week Interdisciplinary Faculty Recharge/ Enrichment of Teacher Course from 10th June 2017 to 30th June 2017 organised by the all Star Departments Under UGC, CPE Meerut College Meerut and obtained "A" Grade

Supervised Ph.D. entitled

1. **Monika Chaudhary (2013):** Isolation production characterization and applicability of antifungal compound produced by *Bacillus Sps*
2. **Moolendra (2021):** Characterization and Diversity Analysis of Cowpea Based on Morpho-Molecular Markers.

Supervised M.Phil. projects entitled

1. **Manoj Tyagi (2006-2007):** In-vitro studies on biochemical content modification by colchicines in *Trigonella foenum graecum* L.
2. **Prashant Kumar (2008-2009):** Microbiological monitoring of potable water using indicator concept.
3. **Deepansh Sharma (2009-2010):** Isolation, identification and antimicrobial profiling of bacterial pathogens from raw milk of dairy cattle
4. **Kaushal Chaudhary (2009-2010):** Isolation, Purification and Identification Of Antibiotic Resistant Bacterial Strains From Food Stuffs
5. **Supriya Tomar (2010-2011):** Isolation and characterization of bacterial isolates from neonatal intensive care units and special care units of hospitals
6. **Vikas Meashi (2010-2011):** Isolation, identification and optimization of bacteriocin producer *Lactococcus lactis subsps. Lactis* and antibiotic susceptibility of isolated strain
7. **Kalpna Vasistha (2011-2012):** Isolation and characterization of chlorpyrifos degrading bacteria from agrisoil samples.
8. **Anjul (2011-2012):** Production, partial purification and optimization of bacteriocin from lactobacillus species isolated from fermented food products and its antibacterial activity against *Pseudomonas aeruginosa*
9. **Nikita Sharma (2019-2020):** Isolation, production, purification and characterization of extracellular amylase from microbial sources *A. fumigatus*

Supervised M.Sc. Projects:

1. **Ruchindra (2011):** Isolation, Identification and antimicrobial profiling of bacterial pathogens from wound infection.
2. **Neha Kumari (2013):** Isolation, identification and antimicrobial profiling of *E. coli*, *S. aureus* and *Pseudomonas* from street vended fruit juices

3. **Juhi dhillon (2014):** Study on antibacterial screening of Indian spices extracts on *E. coli*, *S. aureus*, *Pseudomonas spp.* Isolated from street vended fruits
4. **Pankaj Kumar (2016):** Detection of contamination level of potable water.
5. **Anshika Teotia (2018):** Production, partial purification and optimization of bacteriocin from *Lactobacillus Sps.* Isolated from curd and its antibacterial activity against pathogenic microorganisms.
6. **Swati Singh (2018):** Isolation, Purification, identification of Bacterial pathogens from street vended fruit juices and their susceptibility against antibiotics.
7. **Akshat (2020)**
8. **Anamika (2020)**

Chapter in Book:

Vikas Kumar, Neeraj Aggarwal and **Anjali malik** (2018) Bioherbicide concept: A novel strategy to control weeds in Springer book entitle "Microbial Bioprospecting for Sustainable Development"

Place: Meerut

(Dr. Anjali Malik)