

BIODATA

Name: **Dr. Kusum Singh** (nee Kushwah)
Husband's Name: Dr. B.S. Bhadoria
Date of Birth: May 11, 1964
Nationality/Category: Indian/General
Sex/Marital Status: Female/Married
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Narayan Bhag Road, Jhansi (UP)-284002.
Permanent address: C/o Mr.Jai Singh Kushwah, B-27, Hariom
Colony, Morar Gwalior (M.P.) – 474006

Educational Qualification: M. Phil. (1988) and Ph. D.(1992)

Thesis Titles:

Ph. D.: Toxicological Investigation of *Azadirachta indica* A.juss (Neem) Oil in Female Rats (1992)

M. Phil: Short term Toxicity of *Ferula jaeschkeana* Vatke in Pregnant rats. (1988)

Awards and Honours: 1. Secured II position in Jiwaji University during post graduation. 2. Awarded Fellowship of ICMR, New Delhi.

Research Experience: 20 Years

Research Updates:

I- No. of Students awarded for Ph. D.: 06

Name of Student	Ph.D. Topic
Dr. Sapna Rani	Effect of Tocopherol on Mercuric Chloride toxicity in blood of female Albino Rats.
Dr. Farhan Ali	Evaluation of Effective Antioxidant against toxicity

	of Lead in Blood of Albino Rats
Dr. Vinita Ahirwar	Toxicological Investigation of <i>Tridax procumbens</i> on <i>Sprague Dawley</i> Rats.
Dr. Nazoora Saleh Ali	Pathological Studies of <i>Solanum nigrum</i> on <i>Sprague Dawley</i> Rats.
Dr. Shekhar Kumar Sinoriya	Pathological study of multiherbal composition on hepatotoxicity induced by carbon tetra chloride in albino rats.
Dr. Radha Singh	Antidiabetic effect of multiherbal composition in diabetics induced albino rats.

II- No. of M. Phil Students: Awarded -25

III- No. of Students presently working for Ph.D.: 0

Research Project: Completed in 2015

(Major Project Funded by U.G.C. having title “To Evaluate Toxic Effect of *Solanum nigrum* in Albino Rats”)

Teaching Experience at P.G. Level:

Duration	Institutions/Organization
July 1988 – July 1991	Jiwaji University, Gwalior(MP)
Sep. 2003 – Onwards	Bundelkhand University Campus, Jhansi

Administrative Experience:-

- Worked as Coordinator of Department of Zoology, Bundelkhand University Jhansi (UP). Since Feb 2018 –Feb 2021.
- Worked as Coordinator of UG, Department of Basic Science. Since 2015- 2018.

In Service Programmes:

- 1. Orientation Programme, June 14 to July 11, 2008, at A.S.C.-U.G.C. Kumaun University, Nainital, Uttarakhand.**

2. Achievements:

1. Chaired session and deliver invited talk on topic vaccination to need at NSCTL 2021 held at Amity University Gwalior on January 15th 2021.
2. Deliver invited talk on topic Nutrition for women in Mission Shakti at Sivharsh kishan PG college Basti on March 4th 2021.
3. As a Resource person in Refresher course on “Currents trends in life sciences held at Dr.Hari Singh Gour Central University Sagar From 8th March to 22nd March 2021.
4. Chaired Session at STEM-2020 held at BBC Jhansi from Feb 22nd to 23rd 2020.
5. Presented research paper at STOX-2019 at Jiwaji University Gwalior from September 27th to 29th ,2019.

3. Attended Workshops:

1. National Seminar and Training workshop on the impact of changing climate of Biodiversity Conservation and Ecofunctional status from Jan.15-17, 2004, at Jiwaji University, Gwalior.
2. National workshop on water pollution conservation and underground water label organised by DST at B.B.C. Jhansi, Jan.12-13, 2008.
3. National Workshop on nanotechnology organised by DST held at Bundelkhand University Jhansi, March 14-15, 2008.
4. Seminar cum Workshop on Recent trends in molecular Biology and Immunology for diagnosis and prevents of Human Diseases from 12-14 June 2008 at Boston College for Professional studies, Gwalior (M.P.).
5. Workshops cum training in LEAD-er: Lead Educator Capacity building in organizing Lead awareness at Institute of Environment and Development Studies, BU Jhansi. Organized by NRC for Lead Poisoning in India on Nov.5, 2008.
6. The personal quality Initiative workshop organised by The Indian Quality Foundation-1997.

7. Disaster Management COBSE, Sep.13-19, 1999.
8. Faculty development programme, July 07-19 2013, organised by Institute of Entrepreneur Development Lucknow.

List of Publications:

1. Radha Singh, and **Kusum Singh**, “Zingiber officinale: A spice with multiple roles”, Research journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences, Vol 5(2), pp.113-125, ISSN: 2454-6348, 2019.
2. Radha Singh, and **Kusum Singh**, “Garlic: A spice with wide medicinal actions”, Journal of Pharmacognosy and Phytochemistry, Vol 8(1), pp.1349-1355, ISSN: 2349-8234, 2019.
3. Shekhar Kumar Sinoriya, and **Kusum Singh**, “Evaluation of paracetamol overdose on the Wistar rat’s liver”, International Journal of Pharmacy and Biological sciences, Vol 9(1), pp.1228-1235, ISSN: 2321-3272, 2019.
4. Shekhar Kumar Sinoriya, Radha Singh, and **Kusum Singh**, “Review on Medicinal and Phytochemical Properties of Different Extracts of Termeric Rhizome”, Journal of Pharmacognosy and Phytochemistry, Vol 7(3), pp.874-878, ISSN: 2349-8234, 2018.
5. Shazada Arif Hussain, Nisar Ahmad Bhat, Gulzar Ahmad, **Kusum Singh**, and Md. Ishaq Bhat, “Study on the Effect Ethanolic Extract of *Withonia somnifera* on Hematological Parameters in Male Albino Rats”, International Journal of Scientific Research in Science, Engineering and Technology, Vol. 3(8), pp.816-824, ISSN:2395-602X, 2017.
6. Firdous Majeed, Hakim Mudasir Maqsood, and Kusum Singh,” Antihyperglycemic effect of combination of Bougainillea Spectabilis and Catharanthus roseus leaves on alloxan- induced diabetic rats”, World Journal of Pharmaceutical research, Vol. 6(12), pp.1094-1109, ISSN:2277-7105, 2017.

7. Zamin Ahmad, **Kusum Singh**, Akhtar Rasool, Mir Imran and Faisal Yousuf, “Effect of Co administration of extract of *Bougainvillea spectabilis* and *Catharanthus roseus* on acid phosphates and alkaline phosphates on alloxan induced diabetic albino rats”, *Journal of Pharmacognosy and Phytochemistry*, SPI: 453-455, ISSN: 2278-4136, 2017.
8. Zamin Ahmad, Masood Hussain, Rafath Yasmeen, Kaiser Jamil and **Kusum Singh**, “Effect of Co-administration of the Extracts of *Bougainvillea Spectabilis* and *Catharanthuu Roseus* on Protein and Glycogen Contents of Diabetic Albino Rats”, *World Journal of Pharmaceutical Research*, Vol. 5, Issue 3, pp.826-837, ISSN:2271-7105, 2016.
9. Shivkumar Patel, Vinita Ahirwar, Sapna Rani and **Kusum Singh**, “Haematological Alterations due to *Crataeva nurvala* leaf extract on albino rats”, *International Journal of Pharma and Bioscience*, pp. 51-62, ISSN 0975-6299, 2016.
10. Gulzar Ahmad, **Kusum Singh**, Zamin Ahmad, Mir Imran and Akhtar Rasool, “Biochemical alterations due to aqueous extract of *Tinospora cordifolia* on albino rats”, *World journal of Pharmaceutical Research*, Vol. 5, Issue 3, pp. 1540-1545, ISSN: 2277-7105, 2016.
11. Hemant kumar, Brij Narayan & **Kusum Singh**, “Alteration in glycogen content of uterus and ovary due to monocrotaline, ascorbic acid and α -tocopherol in female albino rats”, Vol. 15, No.2, pp 481-483. ISSN: 0972-5075, 2015.
12. Vinita Ahirwar, Shailendra K. Gaur & **Kusum Singh**, “Histopathological effect of ethanolic extract of *Tridax procumbens* on kidney of albino rats”, *International Journal of Pharmaceutical Sciences and Research*, 5(6), pp.2447-2451. ISSN: 2320-5148, 2014.
13. Rayees Ahmad Naik, Vinita Ahirwar & **Kusum Singh**. Biochemical alterations due to combined methanolic extract of *Dalbergia sissoo* and

Azadirachta indica on liver & kidney of Sprague dawley rats. International Journal of Pharma and Bio Sciences 2014; 5(3): (B) 826-832. ISSN: 0975-6299.

14. Vinita Ahirwar, Shailendra K Gaur & **Kusum Singh**. Histopathological effect of ethanolic extract of *Tridax procumbens* on kidney of albino rats. International Journal of Pharmaceutical Sciences and Research 2014; 5(6):2447-2451. ISSN: 2320-5148.
15. Vinita Ahirwar, **Kusum Singh**, Sapna Rani, Farhan Ali and Nazoora Saleh Aali. *Tridax procumbens*: A review on medicinal herb of India. International Journal of Advance Pharmaceutical and Biological Sciences 2013; 3(1): 8-16. ISSN: 2249- 8966.
16. Vinita Ahirwar, **Kusum Singh**, Sapna Rani, Farhan Ali and Nazoora Saleh Aali. Protective efficacy of Ethanolic Extract of *Tridax procumbens* on blood parameters of albino rats. International Journal of Flora and Fauna 2012; 18(2): 265-270. ISSN: 0971-6920.
17. Nazoora Saleh Aali, Iqbal Khan & **Kusum Singh**. Properties and significance of *Solanum nigrum* in animal and human life. International Journal of Progressive Research 2011; 6(1): 129-131. ISSN: 0973-6417.
18. Gul Tariq, **Singh Kusum**, Srivastava Ankita & Ahirwar Vinita. Biochemical alteration of methanolic extract of *Amaranthus spinosus* on liver of *Sprague dawley* rats. Proceedings of MAASCON-1, 2011, Vol 3 (2). ISSN: 0974-8369.
19. **Kusum Singh**, Nazoora Saleh Aali, Mohd Iqbal Khan & Vinita Ahirwar. Effect of *Solanum nigrum* on protein content of liver and Kidney of albino rats. Pharmacie Globale (IJCP) 2011, 3(06). ISSN: 0976-8157.
20. Ankita Srivastava, **Kusum Singh**, Tariq Gul & Vinita Ahirwar. "Alterations in Hematocellular components of albino rats due to methanolic

extract of *Amaranthus spinosus*. Pharmacie Globale (IJCP) 2011, 3(06).
ISSN: 0976-8157.

21. Sapna Rani, **Kusum Singh**, Farhan Ali, Vinita Ahirwar. “Ameliorative
22. effect of Tocopherol against mercuric chloride- induced changes on haematology of albino rats. IJPI’S Journal of Pharmacology and Toxicology. January 2011, Vol. 1(2). ISSN: 2229-6859.
23. Farhan Ali, **Kusum Singh**, Sapna Rani, Vinita Ahirwar & Shaista Khan. “Protective effect of Vitamin C against lead acetate toxicity in blood glucose level of albino rats. IJPI’S Journal of Pharmacology and Toxicology. January 2011, Vol. 1(2). ISSN: 2229-6859.
24. **Kusum Singh** and Vinita Ahirwar, “Acute and Chronic toxicity study of *Tridax procumbens* on Hemoglobin percent and Blood Sugar level of *Sprague dawley* Rats”. IJPI’S Journal of Pharmacology and Toxicology. November 2010, Vol. 1(1). ISSN: 2229-6859.
25. Sapna Rani, **Kusum Singh**, Farhan Ali, Vinita Ahirwar and Nazoora Saleh Aali, “Protective effect of Tocopherol against Mercuric Chloride Toxicity on Blood Parameters”. International Journal of Pharmaceutical Sciences and Research (IJPSR) 2010; 1(9) (Suppl) ISSN: 0975-8232.
26. Farhan Ali, **Kusum Singh**, Sapna Rani, Vinita Ahirwar and Shaista Khan, “Effect of Ascorbic Acid Against Lead (Pb) Toxicity. International Journal of Pharmaceutical Sciences and Research (IJPSR) 2010, Vol.1 (9) (Suppl.) ISSN: 0975-8232.
27. Nazoora Saleh Aali, **Kusum Singh**, Md. Iqbal Khan and Sapna Rani, “Protective effect of ethanolic extract of *Solanum nigrum* on the Blood Sugar of Albino Rats. International Journal of Pharmaceutical Sciences and Research (IJPSR) 2010, Vol.1, Issue 9. ISSN: 0975-8232.

28. Vinita Ahirwar, **Kusum Singh**, Sapna Rani, Ankita Srivastava and Tariq Gul, "Effect of *Tridax procumbens* on Protein contents of various organs in female Albino rats". International Journal of Pharmaceutical Sciences and Research (IJPSR) 2010, Vol.1, Issue 9. ISSN: 0975-8232.
29. **Kusum Singh** and Anjali Dhar, "Toxicological effect of Neem oil (*Azadirachta indica* A. juss) on liver", Proceedings of Ist ICRABATS-2004.
30. H. Mehta, S. Sesodhiya, **Kusum Kushwah** and A.O.Prakash, "Effect of *Datura* seeds on blood cell counts and clinical parameters in rats", Arogya-Journal of Health and Science, Vol. XVI, 52-57, 1990.
31. S.Pathak , **Kusum Kushwah** and A.O.Prakash, "Effect of hexane extract of *Ferula jaeschkeana* Vatke on the periodicity of oestrous cycle in rats", Indian Drugs, Vol. 27(4), 219-221, 1990
32. **Kusum Kushwah**, H. Mehta, S.Pathak and A.O.Prakash, "Short term toxicity of *Ferula jaeschkeana* Vatke in rats during early pregnancy", Fitoterapia, Vol. LXI(2), 113-120, 1990
33. A.O.Prakash, **Kusum Kushwah** and P. Pathak, "Effect of ethanolic extract of *Ferula jaeschkeana* Vatke on the biochemical constitution in vital organs of pregnant rats" Indian Journal of Pharmacology, Vol. 21, 129-134, 1989.