

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
E-mail Address: kusum_sng@rediffmail.com
Mailing address: C/o Rajeev Agarwal
H.No.135, Ramlila Ganj, Sadar Bazar,
Jhansi (U.P.) – 248001
Phone. 9455515627
Permanent address: C/o Mr. Jai Singh Kushwah
B-27, Hariom Colony, Morar
Gwalior (M.P.) – 474006

Educational Qualification: M. Phil and Ph. D.

Thesis Titles:

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

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

Awards and Honours:

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

Research Experience: 13 Years

Research update-

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

<u>Name</u>	<u>Ph. D. Topic</u>
1. Dr. Sapna Rani	Effect of Tocopherol on Mercuric Chloride toxicity in blood of female Albino Rats.
2. Dr. Farhan Ali	Evaluation of Effective Antioxidant against toxicity of Lead in Blood of Albino Rats.
3. Dr. Vinita Ahirwar	Toxicological Investigation of <i>Tridax procumbens</i> on <i>Sprague Dawley</i> Rats.
4. Dr. Nazoora Saleh Ali	Pathological Studies of <i>Solanum nigrum</i> on <i>Sprague Dawley</i> Rats.

II- No. of M. Phil Students

Awarded - 21

Enrolled (2013- 2014) - 2

Research Project: Awarded

Major Project in U.G.C. Entitled “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
Sep. 2003 – Onwards	Bundelkhand University Campus, Jhansi

Computer Skills:

- 1 Certificate course of MS Office -NIIT, New Delhi
- 2 Beginner's course in Computer to teach in future-Intel Innovation in Education, New Delhi.

In Service Programmes.

1. Orientation Programme

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

2. Workshops

1- National Seminar and Training workshop on the impact of changing climate of Biodiversity Conservation and Ecofunctional status from 15-17 Jan 2004 at Jiwaji University Jhansi.

2- National workshop on water pollution conservation and underground water label organised by DST at B.B.C. Jhansi from 12-13 Jan 2008.

3- National Workshop on nanotechnology organised by DST held at Bundelkhand University Jhansi from 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 National Referral Centre for Lead Poisoning in India on 5 Nov. 2008

6- The personal quality Initiative workshop organised by The Indian Quality Foundation-1997.

7- Disaster Management COBSE Sep.13-Sep 19-1999.

LIST OF PUBLICATIONS

Published Paper:

1. 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.
2. **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
3. 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
4. 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.
5. **Kusum Singh** and Anjali Dhar, “Toxicological effect of Neem oil (*Azadirachta indica* A. juss) on liver”, Proceedings of Ist ICRA BATS-2004.
6. 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.
7. 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.
 8. 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.
 9. 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.
 10. **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.
 11. 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.
 12. Sapna Rani, **Kusum Singh**, Farhan Ali, Vinita Ahirwar. “Ameliorative 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.
- 13.** 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.
- 14.** **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.
- 15.** 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.
- 16.** 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.
- 17.** 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.
- 18.** 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.

19. 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.
20. 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.

Published abstracts in National and International Conferences attended

1. S. Pathak, **Kusum Kushwah** and A.O.Prakash, “Reproductive toxicology of *Ferula jaeschkeana* Vatke in cyclic rats”, VII annual conf. of STOX, Jiwaji University, Gwalior, India Oct. 24 – 26, 1988.
2. **Kusum Kushwah**, S. Pathak and A.O. Prakash, “Effect of ethanolic extract of *Ferula jaeschkeana* Vatke organs of female rats during pregnancy”, VII annual conf. of STOX, Jiwaji University, Gwalior, India Oct. 24 – 26, 1988.
3. **Kusum Kushwah**, “Short term toxicity of *Ferula jaeschkeana* Vatke in rats during pregnancy”, IV M.P. Young scientist Congress, A.P.S University Rewa, Feb.28- March 02, 1989.
4. **Kusum Kushwah**, A.O. Prakash and R. Mathur “Short term toxicity of the extract of *Ferula jaeschkeana* Vatke during early pregnancy in rats”, VIII annual conf. of STOX, Sukhadia University, Udaipur, India, Nov. 25 – 30, 1991.

5. **Kusum Kushwah** and A.O.Prakash, “Effect of Neem oil in vital organs of intact cycle rats”, Academy of Environmental Biology, Dec. 19 – 21 1991.
6. **Kusum Kushwah** “Reproductive toxicity if oil of *Azadirachta indica* A.juss (Neem) in female rats”, VII M.P. Young scientist Congress, Devi Ahilya Bai University, Indore, Feb 28 – March 02, 1992.
7. **Kusum Singh** and Anjali Dhar, “Toxicological effect of Neem oil (*Azadirachta indica* A. Juss) on liver”, International Conference on recent Advances in Biomedical and Therapeutic Science, Bundelkhand University Jhansi, Jan. 13-15, 2004.
8. Anjali Dhar, **Kusum Singh** and M.I. Khan, “ Insects are selective model for the study of biological diversity and conservation with special with special reference to their relation with the microbale community”, National Seminar and training workshop on impact of Changing climate of Biodiversity Conservation and Ecofunctional status, Jiwaji University, Gwalior, Jan 15-17, 2004.
9. **Kusum Singh** and A.O. Prakash “ Toxicity of Neem (*Azadirachta indica* A. juss) oil on reproductive organs of female albino rats” National seminar and Training Workshop on impact of Changing climate of Biodiversity Conservation and ecofunctional Status, Jiwaji University Gwalior, Jan 15 -17, 2004
10. **Kusum Singh** “Biomedical alteration in kidney due to action of *A.indica* oil”, International Conference on recent Advances in Biomedical and therapeutic Science, Bundelkhand University Jhansi, P-I-16, Jan. 6-8, 2005.
11. **Kusum Singh**, Farhan Ali and Anjali Dhar, ”Neem as potent natural

- pesticide on development of *Spodoptera litura*”, International Conference on Recent advances in Biomedical and Therapeutic Science, Bundelkhand University Jhansi, Jan. 6-8, 2005.
12. Shilpi Chattopadhyay, Safiq wani and **Kusum Singh** , “Histopathological alteration in ovary and uterus due to mercuric chloride in female albino rats”, International Conference on toxicology, toxicogenomics and occupational health and 26th annual meeting of STOX, INDIA, Jiwaji University Gwalior, Oct 9-11, 2006
 13. Farhan Ali, **Kusum Singh**, Sapna Rani and Rajeev Singh. Evolution of neem oil and ginger as a natural biopesticide against developmental stage of *Spodoptera litura* ,ICTTOH and 26th STOX meeting held at Jiwaji University Gwalior Oct 9-11, 2006
 14. Rajeev Singh, **Kusum Singh**, Ashok and Smita Shukla “Effect of lead acetate on Liver of *Clarius batrachus*” Recent Advances in Applied Zoology, 2006, C.C.S. University Meerut (U.P.)
 15. Article on Neem: Herbal Miracle or Green Gold. Published in Samvaad news Letter of Bundelkhand University Jhansi. April-May 2007.
 16. Shailendra Kumar Gaur, Farhan Ali and **Kusum Singh** Toxicological effects of Lead acetate on Male Albino Rats. National Conference on Electron Microscopy and Allied Fields and 30th Annual meeting EMSI, Jan 17-19, 2009 at Bundelkhand University, Jhansi.
 17. Farhan Ali, Shailendra Kumar and **Kusum Singh**. Toxicological Effect of Lead acetate on Male Fertility. National Seminar on Environmental Crisis and its solutions at Dept. of Zoology. Govt P.G. College Morena and MPCOST Bhopal, Feb 7-8, 2009.

18. Sapna Rani and **Kusum Singh**. Effect of Mercuric Chloride on Ovary of Albino Rats. National Seminar on Environmental Crisis and its solutions at Dept. of Zoology. Govt P.G. College Morena and MPCOST Bhopal, Feb 7-8, 2009.
19. Vinita Ahirwar, Nazoora Saleh Aali and **Kusum Singh**. Short Term Toxicity of Mercuric Chloride on Adrenal Gland of Albino Rats. National Seminar on Environmental Crisis and its solutions at Dept. of Zoology. Govt P.G. College Morena and MPCOST Bhopal, Feb 7-8, 2009.
20. Nazoora Saleh Aali and **Kusum Singh**. Histopathological Studies on Kidney of Albino Rats Due to Crude Extract of *Solanum nigrum*. International Conference on Recent Trends in Life Science Researches vis-à-vis Natural Resources Management Sustainable Development and Human Welfare. Held on 27-29 June 2009 at Vinoba Bhave University Hazaribag, Jharkhand.
21. Vinita Ahirwar and **Kusum Singh**. Histoarchitecture Changes Due to *Tridax procumbens* in Kidney of *Sprague Dawley* Rats. International Conference on Recent Trends in Life Science Researches vis-à-vis Natural Resources Management Sustainable Development and Human Welfare. Held on 27-29 June 2009 at Vinoba Bhave University Hazaribag, Jharkhand.
22. Vinita Ahirwar, Nazoora Saleh Aali and **Kusum Singh**. Alterations in Hemoglobin and Blood Sugar due to ethanolic extract of *Tridax procumbens* on female Albino rats. National Conference on Emerging Trends in Chemical Sciences, NCETC-2010 organized by Department of Chemistry. Held on 24-26 February 2010 at Bundelkhand University, Jhansi (U.P).

- 23. Kusum Singh**, Nazoora Saleh Aali, Vinita Ahirwar and Farhan Ali. Effect of *Solanum nigrum* on Protein content of liver and kidney of albino rats. National Conference on Emerging Trends in Chemical Sciences, NCETC-2010 organized by Depart of Chemistry. Held on 24-26 February 2010 at Bundelkhand University, Jhansi (U.P).
- 24.** Vinita Ahirwar, **Kusum Singh**, Sapna Rani, Ankita Srivastava & Tariq Gul. Effect of *Tridax procumbens* on protein contents of various organs in albino rats. Emerging trends in the future of Pharmacy in 2020, organized by Institute of Pharmacy, held on March 28, 2010 at Bundelkhand University, Jhansi (U.P).
- 25.** Sapna Rani, **Kusum Singh**, Farhan Ali, Vinita Ahirwar & Nazoora Saleh Aali. Protective effect of Tocopherol against mercuric chloride toxicity on blood parameters. Emerging trends in the future of Pharmacy in 2020, organized by Institute of Pharmacy, held on March 28, 2010 at Bundelkhand University, Jhansi (U.P).
- 26.** Farhan Ali, **Kusum Singh**, Sapna Rani, Vinita Ahirwar & Shaista Khan. Effect of Ascorbic acid against lead toxicity. Emerging trends in the future of Pharmacy in 2020, organized by Institute of Pharmacy, held on March 28, 2010 at Bundelkhand University, Jhansi (U.P).
- 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. Emerging trends in the future of Pharmacy in 2020, organized by Institute of Pharmacy, held on March 28, 2010 at Bundelkhand University, Jhansi (U.P).
- 28. Kusum Singh**, Vinita Ahirwar, Sapna Rani, Farhan Ali and Nazoora Saleh Aali. Biochemical Alterations in Various Organs due to *Tridax*

- procumbens* in Albino Rats. National Seminar on Biological Diversity and its Conservation. Held on 23 October, 2010 at Govt. P.G. College, Morena (M.P).
- 29.** Sapna Rani, **Kusum Singh**, Farhan Ali and Vinita Ahirwar. Protective Role of Tocopherol against Mercuric Chloride induced Oxidative Stress in Liver of Albino Rats. National Seminar on Biological Diversity and its Conservation. Held on 23 October, 2010 at Govt. P.G. College, Morena (M.P).
- 30.** Tariq Gul, **Kusum Singh**, Ankita Srivastava, Vinita Ahirwar and Sapna Rani. Biochemical Effect of Methanolic Extract of *Amaranthus spinosus* on Reproductive Organs of Albino Rats. National Seminar on AQUACON-11. Held on 12 &13, March, 2011 at Department of Zoology, Bundelkhand University, Jhansi (U.P).
- 31.** Sapna Rani, **Kusum Singh**, Farhan Ali, Vinita Ahirwar and Nazoora Saleh Ali. Alteration in Protein Content due to Mercury Accumulation and Elimination in Fishes. National Seminar on AQUACON-11. Held on 12 &13, March, 2011 at Department of Zoology, Bundelkhand University, Jhansi (U.P).
- 32.** Vinita Ahirwar, **Kusum Singh**, Sapna Rani, Farhan Ali, Nazoora Saleh Aali & Shailendra K Gaur. Impact of Aquatic Flora on Aquatic Fauna. National Seminar on AQUACON-11. Held on 12 &13, March, 2011 at Department of Zoology, Bundelkhand University, Jhansi (U.P).
- 33.** Farhan Ali, **Kusum Singh**, Sapna Rani, Vinita Ahirwar & Shaista Khan. Nobel biochemistry against lead toxicity: A review. National

Seminar on AQUACON-11. Held on 12 &13, March, 2011 at Department of Zoology, Bundelkhand University, Jhansi (U.P).

- 34. Kusum Singh** and Nazoora Saleh Aali. Histopathological alterations on vital organs of albino rats due to administration of crude extract of *Solanum nigrum*. International conference on New Horizons in Pharmaceutical and Biomedical Sciences (NHPBMS- 2013). Held on 12 & 13 January 2013 at Siddhartha Group of Institution (SGI), Dehradun.
- 35.** Manzoor Ahmad, **Kusum Singh**, Vinita Ahirwar, Shahazada Arif and Shailendra K Gaur. Effect of ethanolic extract of *Crateva nurvala* on biochemical parameters of diabetic albino rats. International conference on New Horizons in Pharmaceutical and Biomedical Sciences (NHPBMS- 2013). Held on 12 & 13 January 2013 at Siddhartha Group of Institution (SGI), Dehradun.
- 36.** Ankita Srivastava, **Kusum Singh**, Vinita Ahirwar, Neha Gupta and Sapna Rani. Antidiabetic effect of methanolic extract of *Amaranthus spinosus* on albino rats. International conference on New Horizons in Pharmaceutical and Biomedical Sciences (NHPBMS- 2013). Held on 12 & 13 January 2013 at Siddhartha Group of Institution (SGI), Dehradun.
- 37.** Ajaz Ahmad, **Kusum Singh**, Gulzar Ahmad, Vinita Ahirwar and Shashi Patil. Alterations on Hematocellular components of Wistar rats due to aqueous extract of *Tinospora cordifolia*. International conference on New Horizons in Pharmaceutical and Biomedical

- Sciences (NHPBMS- 2013). Held on 12 & 13 January 2013 at Siddhartha Group of Institution (SGI), Dehradun.
- 38.** Shiv Kumar Patel, Sapna Rani, **Kusum Singh**, Vinita Ahirwar, Zamin Ahmad Dar and Shailendra K Gaur. Effect of ethanolic extract of *Crateva nurvala* on haematological parameters in albino rats. International conference on New Horizons in Pharmaceutical and Biomedical Sciences (NHPBMS- 2013). Held on 12 & 13 January 2013 at Siddhartha Group of Institution (SGI), Dehradun.
- 39.** Gulzar Ahmad, **Kusum Singh**, Ajaz Ahmad, Vinita Ahirwar and Firdous Majeed. Alterations on biochemical parameters of Wistar rats due to aqueous extract of *Tinospora cordifolia*. International conference on New Horizons in Pharmaceutical and Biomedical Sciences (NHPBMS- 2013). Held on 12 & 13 January 2013 at Siddhartha Group of Institution (SGI), Dehradun.
- 40.** Vinita Ahirwar, **Kusum Singh**, Sapna Rani, Farhan Ali and Nazoora Saleh Aali. Histopathological effect of ethanolic extract of *Tridax procumbens* on vital organs of albino rats. International conference on New Horizons in Pharmaceutical and Biomedical Sciences (NHPBMS- 2013). Held on 12 & 13 January 2013 at Siddhartha Group of Institution (SGI), Dehradun.
- 41.** Sapna Rani and **Kusum Singh**. Alterations in blood biochemical parameters due to mercuric chloride toxicity in albino rats. International conference on New Horizons in Pharmaceutical and Biomedical Sciences (NHPBMS- 2013). Held on 12 & 13 January 2013 at Siddhartha Group of Institution (SGI), Dehradun.

- 42.** Shailendra Gaur, **Kusum Singh**, Vinita Ahirwar, Farhan Ali and Tabasum Fayaz. Histological effects of Lead acetate exposure on Testis of male albino rats. International conference on New Horizons in Pharmaceutical and Biomedical Sciences (NHPBMS- 2013). Held on 12 & 13 January 2013 at Siddhartha Group of Institution (SGI), Dehradun.
- 43.** **Kusum Singh**, Reena Singh, Geetanjali Srivas and Vinita Ahirwar. Haematological alterations due to ethanolic extract of *Melia azedarach* leaves on female diabetic albino rats. National conference on New Frontiers for Women in Science and Technology. Held on March 20- 21, 2013 Organized by Jiwaji University Gwalior (M. P.).
- 44.** Vinita Ahirwar, **Kusum Singh** and Sapna Rani. Histological changes in ovary and uterus of albino rats due to crude ethanolic extract of *Tridax procumbens*. National conference on New Frontiers for Women in Science and Technology. Held on March 20- 21, 2013 Organized by Jiwaji University Gwalior (M. P.).
- 45.** **Kusum Singh**. National Seminar on Environmental Degradation and Aquaculture, April 28, 2013. Organized by Department of Zoology, Bappa Sri Narain Vocational P.G. College, Lucknow.
- 46.** **Kusum Singh**, Nazoora Saleh Aali, Shivkumar Patel & Sapna Rani. Effects of ethanolic extract of *Solanum nigrum* on the histology of ovary & uterus of albino rats. International conference on Faunal Biodiversity and their Conservational Strategies (22-23 March 2014). Organized by Department of Zoology, University of Lucknow (U.P).

47. Vinita Ahirwar, Ankita Srivastav, Reena Singh, Sapna Rani & **Kusum Singh**. Biochemical profile of *Tridax procumbens* on sprague dawley rats. International conference on Faunal Biodiversity and their Conservational Strategies (22-23 March 2014). Organized by Department of Zoology, University of Lucknow (U.P).
48. Shailendra K Gaur, Firdous Majeed, Vinita Ahirwar & **Kusum Singh**. Antihyperglycemic effect of combined extract of *Bougainvillea spectabilis* and *Catharanthus roseus* on diabetic albino rats. International conference on Faunal Biodiversity and their Conservational Strategies (22-23 March 2014). Organized by Department of Zoology, University of Lucknow (U.P).
49. Sapna Rani, Farhan Ali & Kusum Singh. Protective effects of tocopherol against mercuric chloride toxicity on antioxidant enzyme in blood of albino rats. International conference on Faunal Biodiversity and their Conservational Strategies (22-23 March 2014). Organized by Department of Zoology, University of Lucknow (U.P).
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