

Professor, Department of Botany,
University College of Science,
M.L.S.University. Udaipur (Raj.) 313 001
0294-2413955 Ext. 214

Dr. Kanika Sharma. M. Sc., Ph. D

Fellow of Botanical Society of India, Member Board of Management MLS University,Udaipur, Member Board of Secondary Education, Ajmer, Rajasthan,

Professional Experience: 22 years (Undergraduate and Postgraduate teaching), 28 years of Research. Course Director, Dept. of Biotechnology, MLSU, Udaipur

Research Experience:

Publications: Research papers/ Chapters: **76.**

Books written: **08**

Magazines edited: **03**

Conferences and seminars attended: **52**

Major/Minor Research Projects undertaken: **4**

Training and Courses undertaken: **06**

No. of Ph. D awarded/submitted/registered: **12/0/08**

No. of post Docs: **01** (DST Women Scientist)

Research Collaborations: **Departments of Chemistry, Physics, and Zoology, M L S University, Udaipur.**

Short term projects and summer training courses conducted: **11/ 37**

Acievements:

2010: Awarded **Women Scientist Medal** in 33rd Annual Conference of Indian Botanical Society for significant contribution in field of Microbiology

2005: Award for **best paper presentation** in 7th Annual Meeting of Society for Science and Environment.

2004: Commendation for Smt. Guman Devi Memorial **Best Women Scientist Award** by Indian Society of Mycology and Plant Pathology,

1989: Award for **best paper presentation** in Annual meeting of Indian Botanical Society.

1984: CSIR NET

Corporate duties

Member of Departmental, College and University level committees, Editorial board of University and College magazines, Souveniers and Abstract booklets.

Education :

1989: Ph.D Studies on some plant galls of some economically important leguminous plants. University of Rajasthan. Jaipur.

1984: CSIR NET

1983: M. Sc. (Specialization in plant pathology), Dept. of Botany. University of Rajasthan. Jaipur. 1st Division and 4th position in University

1981: B.Sc (Hons.) Botany, University of Raj. Jaipur. 1st Division and 10th position in University.

1978: Hr. Secondary, Board of Sec. Ed. Rajasthan 1st Div. with distinction

1977: Secondary, Board of Sec. Ed. Rajasthan 1st Div. with distinction

Languages courses

1983: Diploma course in German Language, Dept. of MEL, Univ. of Raj. Jaipur. 1st division.

1982: Certificate course in German Language, Dept. of MEL, Univ. of Raj. Jaipur. 1st division.

Ph.D degrees Awarded

- Ms. Pooja Mehta: **2003** "Effect of dairy effluent on microflora".
- Mr. Ashish Maheshwari: **2004** "Study of the effect of Cyanobacteria and algae on the physico chemical properties of textile effluent".

- Ms. Shalu Bapna: **2004** "Study of effect of micro organisms on physico-chemical properties of distillery waste".
- Ms. Tripta Jain: **2007** "Study of Inhibitory Effect of *Polyalthia longifolia* Benth. & Hook. Against Some Selected Pathogens".
- Ms. Gumala Dak: **2007** " Studies of antimicrobial activity of some local plants".
- Mr Yogesh Vyas: **2007** "Comparative anti microbial activity of *Spilanthes calva* DC and synthetic dentifrices on oral micro flora using *in vitro* human tooth model".
- Ms. Arti Agrawal: **2008** "Antimicrobial Activity of *Euphorbia pulcherrima* Willd .ex. Klotzsch Extract against Selected Pathogens".
- Ms. Rekha Sharma: **2008** "Study of Inhibitory Effect of *Thevetia peruviana* (Pers.) Schum Extract on Selected Pathogens."
- Ms. Jasoda Kumari: **2010** "Development of Herbal Nematicidal Agents against *Meloidogyne incognita*"
- Mr. Naveen Sharma: **2011** "Development of Herbal Antifungal Agents against *Fungi Imperfectii*".
- Ms. Madhu Rathore: **2012** "Screening of Food Samples to Isolate Lipolytic Bacteria"
- Ms. Ankita Sharma: **2012** "Study of Antifungal activity of Some Plants against Aflatoxin Producing Strains of *Aspergillus* Species"

Ph.D students registered

- Mrs Tahira Parveen: "Development of Herbal Biocontrol agents against certain ginger rot causing *Pythium* species"
- Mrs Hema Chandran: " Isolation and characterization of extracellular polysaccharide secreting bacterial isolates from food and beverage manufacturing unit effluent"
- Ms Deepa Hada : "Development of herbal formulation from *Cassia fistula* fruit pulp extract for control of early blight of potato"
- Mrs Deepti Trivedi: Microorganism mediated synthesis of nano particles and their applications in waste water treatment"
- Ms Alankrata Dashora: " Plant extract mediated synthesis of silver nano particles and study of their antimicrobial activity"
- Mr Tansukh Barupal:" Control of leaf spot disease of maize by leaf extracts of *Lawsonia inermis* Linn.
- Ms.Surbhi Mehta: Pursuing coursework
- Mrs. Kavita Rathore: Pursuing coursework

Research Collaborations

- ❖ Research activities are being conducted in collaboration with Departments of Chemistry, Physics, and Zoology. M L S University, Udaipur.
- ❖ Investigations of Antiparkinsonismic Effects of Tribal Herbal Formulations in animal models have been done with Prof. Maheep Bhatnagar of Department of Zoology, M L Sukhadia University.

- ❖ X-Ray diffraction study of effluent and biological material is being conducted as a joint programme in collaboration with Dr. Venu Gopalan and Dr. Laxmi Nambakkat of Department of Physics, M L Sukhadia University.
- ❖ The laboratory also conducts the evaluation of antibacterial and antifungal properties of compounds synthesized by research students of Chemistry Department of this University.

Research projects undertaken:

Major

- **1998-2000.** Investigations on Antiparkinsonismic Effects of Tribal Herbal Formulations in Rat Brain. Co-investigator. (DST Rajasthan). Rs.1 .25 lakhs.
- **2003-2006.** Isolation and evaluation of mode of action of antifungal agents of plant origin (DBT Delhi). Rs. 13 lakhs.

Minor

- **2000-2003.** Biological treatment of dairy waste to cultivate yeast (UGC). 15,000/-
- **2006.** Women in Science- Gender imbalance (UGC). 15,000/-

Ongoing new projects sanctioned (Title, Agency and cost)

Title	Agency	Cost
Development of herbal biocontrol agent against plant pathogenic fungi, 2010-2013	DST, Raj.	6.89 lacs

Completed projects sanctioned (Title, Agency and cost)

Title	Agency	Cost
Isolation and screening of lipolytic activity of lactic acid bacteria , 2009-11	DST, Delhi	18,55,700/-
Development of plant extract and organic material based fungicide for management of economically important plant diseases, 2009-11	DST WOS-B Scheme	8 lacs

Publications:-

Review papers

1. **1992.** Vidya Ramani, Payal Jain, Kanika Sharma and Uma Kant. . Insect induced galls on flowers and seeds. **In ‘Vistas in seed Biology’** edited by P.C. Trivedi and T.Singh. Print well publishers, Jpr. 113-119.
2. **1998.** Sushma Jain, Sunil D. Shukla, K. Sharma and M. Bhatnagar. . Phytoantioxidants: Therapeutic implications of antioxidants in neurodegenerative changes in brain. **Ind. J. of Gerontology.** 12 (3); 60-69.

Chapters in books

3. **2003** Sharma K., P. Mehta., Maheshwari A.and S. Bapna. "Biological treatment of dairy Effluent by Cyanobacteria" **In: Microbial Technology.** Ed. Dr. P C Trivedi. Avishkar Publishers & Distribitors. Jaipur.
4. **2005.** Dak, G., K. Sharma, and M. Bhatnagar. *Cassia fistula* furit pulp: A possible antifungal agent against *Alternaria solani*. **In: Advances in Fungal diversity and host pathogen interactions.** Eds. B.I. Rodrigues, H.N. Gour, D.J., Bhatt & N.Kamat. (1) 37-41.
5. **2007** Agrawal, A., Sharma, R., Dak, G., Bhatnagar, M., Dagliya, S. and K. Sharma. Pollution management by culturing yeast in dairy effluent. **In Environment management practices: an Indian Outlook,** Saxena k., Bhatt N., 187-190.
6. **2007.** Sharma, K. and Y.K. Vyas. Oral health care and plants. Indian folk medicine, pp 58-82, Ed. P.C Trivedi. Avishkar Publishers & Distribitors. Jaipur
7. **2007:** Course material for Paper II, Units 6-10 of B.Sc. Biotechnology 1st year. Vardhaman Mahaveer Open University, Kota.

8. **2007.** Sharma, K., Dak, G., Agrawal, A., Sharma, R., Sharma, N. and Y.K. Vyas. Antimicrobial agents from plants. Biocontrol of plant disease. P. C. Trivedi. Avishkar Publishers & Distributors. Jaipur, 242-272.
9. **2008:** Course material for Paper III, unit 8,9,10 of B.Sc. Biotechnology 2nd year. Vardhaman Mahaveer Open University, Kota.
10. **2008:** “Ageing and antioxidants”. In “Swasthya Bodhini” published by Rotary club Udaipur Meera. Udaipur. (article of general interest).
11. **2010:** Sharma, K., Jain, T., Dak, G., Agarwal, A. and Sharma, R. “Use of Botanicals to control plant pathogenic Deuteromycetous Fungi” **In: Agricultural Microbiology.** Ed. Dr. P C Trivedi. Pointer Publishers, Jaipur.

Research papers and articles

12. **1983.** D.K.Arora, Kanika Vyas and U.Kant. . Cyto-morphological studies of gall and normal callus tissues of *Emblca officinalis* Gaertn **Proc. Natl. Symp. Adv. Front. Pt. Sc.** Jodhpur 273.
13. **1994.** Kanika Sharma et al.. Histochemical profile of stem gall of *Indigofera atropurpurea* Buch. Ham. induced by an unknown midge. **J. Phytol.Res.** 7(2); 139-142. **ISSN No: 0970 -5767, Impact Factor: 0.304**
14. **1994.** U.Kant, Payal Lodha. Kanika Sharma and A.K.Gupta. Histopathology of leaf gall on *Pongamia glabra* Vent induced by *Eriophyes cheriani* Masee. **J. Ind.Bot.Soc.** 73; 61-65. **ISSN No: 0019 -4468.**
15. **1995.** Kanika Sharma et al. Histopathology of stem gall of *Prosopis cineraria* (Linn) Druce induced by an unknown chalcid. **J. Ind. Bot. Soc.** 74; 129-133. **ISSN No: 0019 – 4468.**
16. **1996.** U.Kant and Kanika Sharma. Histochemical Profile of the leaflet galls on *Indigofera atropurpurea* Bunch.Ham induced by a mite. **Acta Botanica Indica.** 24; 21-24. **ISSN No: 0379 -508.**
17. **1997.** Kanika Sharma et al. Preventive action of Aloe vera extract on wood destruction by termites. **Ind. J. App. & Pure Bio.** 12(2); 105-106. **ISSN No: 0970-2091.**

18. **1998.** S.Jain, S.D.Shukla, , **K.Sharma** and M.Bhatnagar. Phytoantioxidants: Therapeutic implications of antioxidants in neurodegenerative changes in brain. **Indian Journal of Gerontology.**12; 60-69. **ISSN No: 0971 -4189.**
19. **2000.** S.D.Shukla, S.Jain, K.Sharma, C.Bhatnagar and M.Bhatnagar. Neuroprotective effects of *Semecarpus anacardium* Linn. against stress induced neurodegeneration in hippocampal subregions of female rats. **Annals of Neurosciences.** 7; 41-47. **ISSN No: 0364- 5134.**
20. **2000** Shukla S D, S Jain, K Sharma and M Bhatnagar. Effects of *Semicarpus anacardium* Linn. on neuron cell bodies in hippocampal sub regions of stressed female rats. **Ind. Drugs.** 37(8); 379-382. **ISSN No: 0019- 462.**
21. **2000.** Sharma K., M. Bhatnagar, C. Bhatnagar and P. Mehta. Study of physico-chemical properties of dairy effluent. **J. Phytol. Res.** 13(1); 101-102. **ISSN No: 0970- 5767, Impact Factor: 0.304.**
22. **2000.** Shukla S D, S Jain, K Sharma and M Bhatnagar. Stress induced neuron degeneration and protective effects of *Semecarpus anacardium* Linn. and *Withania somnifera* Dunn. In hippocampus of albino rats : An ultrastructural study. **Ind. J. Exp. Biol.** 38; 1007-1013. **ISSN No: 0019-5189, Impact Factor:0.551.**
23. **2001.** Jain S., S.D.Shukla, K.Sharma and M.Bhatnagar. Neuroprotective effects of *Withania somnifera* Dunn in hippocampal sub regions of female albino rats. **Phytotherapy Research.** 15: 544-548. **ISSN No: 0951-418, Impact Factor:1.878.**
24. **2001.** Sharma K. and P. Mehta. Defluoridation of water by microflora **J. Phytol. Res.** 14(1&2) 101-102. **ISSN No: 0970-5767, Impact Factor:0.304**
25. **2001.** Sharma K. and P. Mehta. Effect of dairy effluent on biochemical composition of cells of some cyanobacteria. **J. Phytol. Res.** 14(1&2) 175-178. **ISSN No: 0970-5767, Impact Factor:0.304**
26. **2002** Sharma K., S. D. Shukla, P.Mehta and M. Bhatnagar. Fungistatic activity of *Semicarpus anacardium* Linn. F. Nut. Extract. **Ind. J. Exp. Biol.** 40:314-318. **ISSN No: 0019-5189, Impact Factor:0.551.**
27. **2002** Sharma K. and P. Mehta. Effect of Cyanobacterial biofertilizer on growth of *Capsicum annum* seedlings. **Nature Environment and Pollution Technology** 1(2) 103-106. **ISSN No: 0972-6268.**

28. **2002.** Sharma K., G. Dak, P. Mehta, A. Maheshwari and S. Bapna. Study of medicinal plants of Dunga- village of Rajasthan. **Ind. J. Env. Sciences.** 6 (1) 51-52. **ISSN No: 0971-8958.**
29. **2003.** Sharma K., N. Lakshmi, K Venugopalan., P. Mehta., A. Maheshwari and S. Bapna. X-Ray Diffraction: An approach to study interaction between Cyanobacteria and Dairy Effluent. **Current Science** 85 (9): 1330-1334. **ISSN No: 0011-3891, Impact Factor:0.57**
30. **2004.** Baregama., L.K., M. Ahmed, G. Dak, K. Sharma, G.L. Talesra. Evaluation of the antimicrobial activity of some novel alpha substituted hydroxylamine derivatives. **Ind. J. Pharmacol.** 36(5): 315-16. **ISSN No: 0253-7613, Impact Factor:0.267.**
31. **2005.** Sharma, R., M. Ahmed, **K. Sharma** and G.L. Talesra. Synthesis and Antimicrobial activity of Pthalimide (2-aryl-3-isonicotinamido-4-oxo-1, 3-thiazolidine-5-yl) Ethanotes. **Ind. J. Pharmaceutical Sci.** July –August, 462-466. **ISSN No: 0250-474.**
32. **2006.** Vyas, Y.K., M. Bhatnagar and **K. Sharma**. Antimicrobial activity of a herb based and synthetic dentifrices against oral microflora. **J. Cell and Tissue Research;** 6(1): 639-642. **ISSN No: 0973-0028, Impact Factor: 2.804.**
33. **2006.** Jain, T. and **K. Sharma**. Effect of *Polyalthia longifolia* Benth. & Hook. leaf extract on conidial germination of *Alternaria solani*. **J. Mycol. & Plant Pathol.** 36 (2) 312-313. **ISSN No: 0971-9393, Impact Factor: 0.49.**
34. **2007.** Jain, T and **K. Sharma**. Antifungal potential of *Polyalthia longifolia* Benth. & Hook. Leaves. **Proceedings of the National Academy of Sciences.** Allahbad; 77(B) I, 105-109.
35. **2007.** Vyas, Y., **Sharma, K.**, Bhatnagar. Antimicrobial activity of *Spilanthes calva* DC. Root extract. **Indian Drugs;** 44 (2), 140-141. **ISSN No: 0019-462.**
36. **2007.** **Sharma, K.**, Dak, G., Agrawal, A., Bhatnagar, M. and Sharma, R. Effect of Phosphate Solubilizing Bacteria on The Germination of *Cicer arietinum* seeds And Seedling Growth. **J. Herbal Medicine & Toxicol.** 1(1): 61-63. **ISSN No: 0973-4643.**

37. **2007.** Dak, G., Agrawal, A., Sharma, R., **Sharma, K.** Inhibitory activity of various fractions of *Cassia fistula* fruit pulp extract against urinary pathogens. **Indian Drugs** 44(9):716-718. **ISSN No: 0019-462.**
38. **2007.** Sharma, K., Saxena, A., Dak, G., Sharma, R. and Agrawal, A. Isolation and assay of antifungal activity of siderophore producing strain of *Pseudomonas aeruginosa*. **J. Mycol. Pl. Pathol**, 37 (2):251-253. **ISSN No: 0971-9393, Impact Factor:0.49.**
39. **2008** Vyas Y.K., Bhatnagar M., **Sharma K.** *In vitro* evaluation of antibacterial activity of an herbal dentifrice against *Streptococcus mutans* and *Lactobacillus acidophilus*. **Indian J Dent Res**, 19(1):26-28. **ISSN No: 0970-9290, Impact Factor:0.505.**
40. **2008.** Sharma,N., Rawal P., Gour H.N and **Sharma K.** Influence of edaphic factors on nodulation in Chickpea. **J. Mycol. Pl Pathol**. 38(1):118-119. **ISSN No: 0971-9393, Impact Factor:0.49.**
41. **2008.** Vyas Y.K. and Sharma K. Study of medicinal plants used for oral problems in Loyara village of Udaipur district. **Indian Journal of Environmental Sciences**. 12(1), 11-12. **ISSN No: 0971-8958.**
42. **2008.**Kumari, J.,Bhargava, S.,Sharma, M.K.,Sharma, N.,Sharma, A.,Rathore M., and **Sharma, K.** Effect of crude alcoholic fractions of different plant extracts on hatching and larval mortality of *Meloidogyne incognita*. **Journal of pure and Applied Microbiology**; 2(2): 443-446. **ISSN No: 0973-7510.**
43. **2008.**Sharma N., Kumari J., Rathore M., Sharma A., **Sharma K.** Antifungal activity of Some Medicinal Herb Extracts against *fungi imperfectii*. **Journal of Pure and applied Microbiology**; 2(2): 563-567. **ISSN No: 0973-7510.**
44. **2009.** Sharma N., Dubey N. K., **Sharma K.** Screening of insecticidal activity of *Origanum majorana* oil against *Tribolium castenium*. **Biosciences, Biotechnology Research Asia**; 6(1): 203-208. **ISSN No: 0973-1245.**
45. **2009.** Rathore M., Sharma N., Sharma A., Kumari J., **Sharma K.** Camel milk: a potential source of therapeutic lipolytic lactic acid bacteria. **Biosciences, Biotechnology Research Asia**; 6(1): 251-256. **ISSN No: 0973-1245.**

46. **2009.** Assay of antibacterial activity of *Polyalthia longifolia* Benth. and hook. Leaf extracts. **J. Cell and Tissue. Res.;**9(2):1817-1820. **ISSN No: 0973-0028, Impact Factor: 2.804.**
47. **2009** Sharma A, Rathore M., Sharma N., Kumari J., **Sharma K.** Antifungal potential of some botanical extracts to reduce aflatoxin producing storage fungi. **Journal of Pure and applied Microbiology;** 3(1): 223-226. **ISSN No: 0973-7510.**
48. **2009** Rathore M., Sharma N., Sharma A, Kumari J., **Sharma K.** Screening of milk and dairy products for isolation of lipolytic bacteria. **Journal of Pure and applied Microbiology;** 3(1): 337-341. **ISSN No: 0973-7510**
49. **2009.** Vyas, Y. K., Chandrasekhara, K.T., Bhatanagar, M. And Sharma, K. Effect of *Spilanthus calva* Dc. Root extract, herbal and synthetic dentifrices on oral microflora using in vitro human tooth model. *Journal of herbal medicine and Toxicology;* 3(1):141-148. **ISSN No: 0973-4643.**
50. **2009.**Sharma A., Rathore M., Sharma N., Kumari J., Sharma K. “Phytochemical evaluation of *Eucalyptus citriodora* Hook and *Lawsonia inermis* Linn.” **Biosciences, Biotechnology Research Asia;** 6(2):639-645. **ISSN No: 0973-1245.**
51. **2009.** Kumari, J., Sharma, A.,Rathore M.,and **Sharma, K.** “*Adathoda vasica*: As a potential nematicidal source against Root-Knot *Meloidogyne incognita*.” **Biosciences, Biotechnology Research Asia;** 6(2):745-750. **ISSN No: 0973-1245**
52. **2010.** Singh, B., Maheshwari, A., Dak. G., **Sharma, K.** and Talesara, G. L. Studies of antimicrobial activities of some 4- Thiazolidinone fused pyrimidines, [1, 5] - benzodiazepines and their oxygen substituted hydroxylamine derivatives. **Indian Journal of Pharmaceutical Sciences;** 72(5):607 – 612. **ISSN No:**
53. **2010.** Naveen Sharma and Kanika Sharma. “Antifungal activity of *Origanum majorana* L. against some *Deuteromycetes* Fungi”. **Asian Journal Of Experimental Sciences;** 24(1):101-105. **ISSN No: 0971- 5444.**
54. **2010.** Jain T and **Sharma K.** “Investigations on Bioactive Compounds of *Polyalthia longifolia* Benth. & Hook. Against *Alternaria solani*”. **Inventi Rapid: Ethnopharmacology;** 1(1). **ISSN No: 0976-3805, Impact Factor: 2.47.**
55. **2010.** Jashoda Kumari, **Sharma, K.**, Subhash Bhargava and Aseem Shankar Srivastava. “Effect of Dry Leaf Powder and Extract of *Adhatoda vasica* on

Meloidogyne incognita in Brinjal". **J Mycol Pl Pathol**; 40(2):276-279. **ISSN No: 0971-9393, Impact Factor: 0.49.**

56. **2010.** Sharma, N., N. Lakshmi and **Sharma, K.** Biochemical Profile of *Origanum majorana* L. Methanolic Leaves and Inflorescence Extracts Using X-Ray Diffraction Method. **Inter J Curr Trends Sci Tech**, 1(4): 207–212. **ISSN No: 0976-9730.**
57. **2010.** **Sharma, K** and Rathore, M. Characterisation of physical factors for optimum lipase activity from some bacterial isolates. **International Journal of Current Trends in Science and Technology**, 1(2):51-62. **ISSN No: 0976-9730.**
58. **2010.** **Sharma. K** and Rathore, M. Comparative evaluation of specific Activity of crude and partially purified lipase preparation from lipolytic bacteria. **International Journal of Pharmaceutical Studies and Research**, 1: 31-38. **ISSN No: 2229-4619.**
59. N. Sharma, M. Rathore, **K. Sharma**, De E. Clarke. Study of antiviral potential and cytotoxicity of plant extract and essential oil from *Origanum majorana*. **Journal of Innovative Medicine and Biology**, N1:74- 84. **ISSN No: 1925-2188.**
60. **2010 .** Rathore, M and **Sharma, K.** Determination of metal salts requirement for optimum activity by bacterial lipase. **Journal of Innovative Medicine and Biology**, N1:116-129. **ISSN No: 1925-2188.**
61. **2011.** Sharma N., Dubey N. K. and **Sharma K.** Screening of Insecticidal and antifungal activity of *Origanum majorana* oil against *Callosobruchus chinensis*(L.) and *Aspergillus spp.* **Research Journal of Agriculture and Biological Sciences**, 7(2): 223-227. **ISSN No: 1995-0748.**
62. **2011.** Sharma, A. and **Sharma, K.** Assay of antifungal activity of *Lawsonia inermis* Linn. And *Eucalyptus citriodora* Hook. **Journal of Pharmacy Research** 4(5):1313-1314. **ISSN No: 0974-6943, Impact Factor: 1.09.**
63. **2011.** Sharma, A. and **Sharma, K.** *Musa paradisiaca* (var. *sapientum*) fruit peel for suppression of aflatoxin producing *Aspergillus* spp. on groundnuts. **Indian Phytopathology**, 64(3):275- 279. **ISSN No: 0367-973X, Impact factor: 0.983.**

64. **2011.** Sharma A. and **Sharma, K** . Should solubility and zone of inhibition be the only criteria for selection of solvent in antimicrobial assay? **Advances in Biological Research**, 5(5): 241-247. **ISSN No: 1992-0067, PubMed citation.**
65. **2011.** Rathore, M., **Sharma, K.** and Sharma, N. Antimicrobial potential of botanicals and disease control. **The Natural Products Journal** 1(2):1-11. **ISSN No: 2210-3155.**
66. **2011.** Sharma, N., Rathore, M and **Sharma, K.** Role of natural metabolites in plant disease management. *Elixir Biotech* 41:5637- 5647. **ISSN No: 2229-712X.**
67. **2012.** Sharma, A. and **Sharma, K.** Protection of maize by storage fungi and aflatoxin production using botanicals. **Indian Journal of Natural Products and Resources**, 3(2): 215- 221. **ISSN No: 0976-0504.**
68. **2012.** Rathore, M., Sharma, N and **Sharma, K.** Plants based drugs against tuberculosis infection. **Novel Science International Journal of Medical Science**, 1(5):148 - 154. **ISSN No: 2278–0025.**
69. **2012.** R. Madhu, **S. Kanika,** K. Poonam. Isolation of lipase producing strain of *Enterococcus hirae* from camel milk. *Novel Science International Journal of Medical Sciences*, 7 (1); 208-214.
70. **2013.** Sharma, A. and **Sharma, K.** Efficacy of *Lawsonia inermis* linn. and *Eucalyptus citriodora* hook. essential oils and their combination as antifungal and antiaflatoxin agent. **International Journal of Biological & Pharmaceutical Research** 4(2): 130-143. **ISSN No: 0976 – 3651. Impact factor: 0.92 and IC Value in 2010 : 4.17**
71. **2013.** Tripta Jain and **Kanika Sharma.** Bioassay-Guided Isolation and Identification of Antifungal Compound from *Polyalthia longifolia* Benth.&Hook. **Journal of Biologically active Products from Nature** 3(2):106-114. **ISSN No: 2231– 1866. Impact factor: 0.92 and IC Value in 2010 : 4.17.**
72. **2013.** Hema. C and **Kanika. S.** Food and Beverage Unit Effluents: A Source of Exopolysaccharide Producing Bacteria. **Advanced Biotech:** 13(04): 01-04. **ISSN No: 2319-6750.**

73. **2013.** Surbhi.M and **Kanika. S.** Antifungal activity of *Eucalyptus globules* against some plant pathogenic fungi. **Journal of Pharmacy Research: BioMedRx: An International Journal** 1(9): 884-887. **ISSN No: 2321 – 4988.**
74. **2013.** Tahira Parveen and **K Sharma.** Cause of reduced yield of Ginger in Udaipur (Rajasthan). **Star Botany** 1(4):1-4. **ISSN No:2321-676X**
75. **2013.** Rathore M, Gajula P, **Sharma K** And Sharma N. Determination of physical existence of bacterial lipase coding gene for stable expression. **World Research Journal of Cell Biology** : 1-3. **ISSN No:**
76. 2013. Goel. A and Sharma K. Plant natural metabolites as antimicrobial agents : Review. **World Research Journal of Antimicrobial Agents: ISSN No: 2320-3389.**

1. Books

Books authored

1. **1996:** Memory course for Botany. (PMT, CPMT).
2. **1998:** Memory course for Biology. (PMT, CPMT).
3. **1999:** Text book of Practical Biology. (10+2, Board of Sec. Education. Raj.).
4. **2004:** Hand Book of Waste Management published by Rotary Meera Club, Udaipur
5. **2005:** Manual of Microbiology: Tools and Technology. Ane Books New Delhi.
6. **2007:** Manual of Microbiology: Tools and Technology. 2nd Edition. Ane Books New Delhi.
7. **2007:** Manual of Microbiology: Tools and Technology. 1st Edition. Anshan Ltd. U.K.
8. **2011:** Text Book of Microbiology, Ane Books New Delhi. Text Book of Microbiology, Ane Books New Delhi.

Books edited

1. **2001:** A Career Guide published by Rotary Meera Club, Udaipur.
2. **2007:** Course material of paper II, B.Sc. Biotechnology First year. Vardhaman Mahaveer Open University, Kota.
3. **2008:** “Swasthya Bodhini” published by Rotary club Udaipur Meera.

Magazines edited

1. **2007:** M.L.S. University, Udaipur Magazine “Darpan”.
2. **2008:** University College of Science, M.L.S. University, Udaipur Magazine “Abhivyakti”.
3. **2008:** DSW Office, M.L.S. University, Udaipur Magazine: Shikhar”.

Conferences/Seminars/ Workshops Attended

1. **1983.** National Symposium on Advance Frontiers of Plant Science, Jodhpur.
2. **1987.** Indian Science Congress, Bangalore.
3. **1987.** National conference of Society of Mycology and Plant Pathology. Jaipur.
4. **1987.** National Seminar on Recent Advances in Researches on Abnormal Growth in Plants, Jaipur.
5. **1988.** Annual Meeting of Indian Phytopathological Society, Jaipur.
6. **1989.** National Conference of Indian Botanical Society, Thiruchirapalli.
7. **1992.** 62nd Annual Meeting of National Academy of Sciences, Udaipur.
8. **1994.** 11th National Seminar on Parasitology, Udaipur.
9. **1994.** National seminar on Tribal development and environment, Udaipur.
10. **1995.** Workshop organized By Rajbhasha ayog, Udaipur,
11. **1997.** Workshop on Development of Minor Research Project Guide for 10+2 sponsored by SIERT, Udaipur, Raj.
12. **1998.** User`s workshop on “Problem and Potential of Field Performance of some Micropropagated tree species of Aravallis in Rajasthan, Dept. of Botany, MLS University, Udaipur.
13. **1999.** Workshop on question paper making, Udaipur, Board of Sec. Ed. Raj.
14. **1999.** National seminar on environment and Health. Organised by Sarita (N GO), Udaipur.
15. **2000.** Workshop for reviewing the syllabi for secondary and senior secondary classes, Udaipur, Board of Sec. Ed. Raj.
16. **2001.** State level Conference for development of strategies for National Curriculum in School Education, Udaipur, Board of Sec. Ed. Raj.
17. **2002.** Workshop of Short term Training For Women of Unorganized Sector, CSSH, MLSU, Udaipur.
18. **2002.** 11th National Symposium of Environment, RCA, Udaipur. DAE-BRNS sponsored.
19. **2002.** National conference on Environmental Biology, Dept. of Biosciences, Saurashtra University, Rajkot. Gujrat.
20. **2002.** Short term training on Bacterial Taxonomy, Dept. of Microbiology, MDS University, Ajmer.
21. **2002.** Workshop of short term training for women of unorganized sector, CSSH, MLS University, Udaipur.
22. **2003.** User`s workshop on Alternative Medicine: Application of herbal Drugs, Dept. of Zoology, M .L.S University.
23. **2003.** 20th Annual session of Indian Academy of Neurosciences. Dept. of Zoology, MLS University.
24. **2004.** 3rd West Zone Meet of Indian Society of Mycology and Plant Pathology. MPUAT, Udaipur.
25. **2004.** 26th Annual conference of Indian Society of Mycology & Plant Pathology, Goa University, Goa.
26. **2005.** Workshop of Biotechnology awareness, Science and Technology Department, Government of Rajasthan, MLS University, Udaipur.
27. **2005.** 7th Annual Conference of society of Science and Enviornment. Dept. of Zoology, MLS University, Udaipur .

28. **2005.** Global Conference II jointly organized by Indian Society of Mycology and Plant Pathology, Maharana Pratap University of Agriculture & Technology, Udaipur.
29. **2006.** 10th State Level Seminar cum exhibition, DST Jaipur
30. **2006.** International Conference of Environment Management Practices in India, Pacific Institute of Management, Udaipur.
31. **2006.** National symposium on “Emerging Trends in Plant Biology, Environmental Protection and Biotechnology” held at Dept. of Botany, MLS University, Udaipur.
32. **2007.** 19-21 February, National Symposium on Limnology held at College of Fisheries, Maharana Pratap University of Agriculture & Technology, Udaipur.
33. **2007.** 11 March, National update on obstetric Anaesthesia, held at association of obstetric Anaesthesiologists, Udaipur.
34. **2007.** 16-17 November, National conference on “Environmental Sciences: Current status and emerging challenges” held at MLSU, Udaipur.
35. **2008.** 5-6 February, National conference on “Application of Biotechnology in sustaining the environment held at ICG, Jaipur.
36. **2008.** 12-13 March, National Symposium on “Integrated Pest and Disease Management (IPDM) in Arid and Semi Arid Areas” held at AFRI, Jodhpur.
37. **2009.** 24th October, Workshop on Nanostructured Materials (WNM-09) organized by Department of Physics, M.L.S. University, Udaipur (Raj.).
38. **2009** 2-6 November 5th World Congress of Cellular and molecular Biology. Indore
39. **2009** 12th November Seminar on “Competent Solutions for Industrial Applications” organized by Merck Specialities Private Limited.
40. **2009** 24th – 28th Nov, International Conference on nurturing arid zones for people and environment: Issues and agenda for the 21st Century held at CAZRI, Jodhpur.
41. **2009.** 8th Dec., State Level Samvad Program on “ Dayanpratha : Ek Samajik Abishap” organized by UGC Centre of Women’s Studies, M.L.S.University, Udaipur (Raj.).
42. **2009.** 22-23rd Dec, National Seminar on “Positive Psychology and Well Being” organized by Department of Psychology, UGC Centre of Women’s Studies, M.L.S.University, Udaipur (Raj.)
43. **2010.** 26-27th Feb, “National Conference on Thrust Area of Biotechnology and Bioengineering” organized by IBAS, Sikar (Raj.).
44. **2010.** 25-27th November, “International Conference on Folk and Herbal Medicine” organized by Department of Botany, University College of Science, M.L.S.U., Udaipur (Raj.)
45. **2010.** 6- 10th December, “The 11th International Conference on Public communication of Science and Technology” organized by DST, New Delhi, India.
46. **2010.** 10-11th December, “Symposium on Natural Resource Management in Agriculture (NaRMA-II)”, organized by PROM Society, Udaipur in collaboration with MPUAT, MLSU, RSSML, Udaipur (Raj.)
47. **2011.** 11th to 15th May, National Council of Science and Technology Communication, Science and Technology Ministry, Govt. of India, Science Communication through Digital Media Training Workshop
48. **2012.** 10th Jan- 13th January, 3rd Global Conference organized by the Indian Society of Mycology and Plant Pathology on Plant Pathology for Food Security at Udaipur.

- 49. 2012.** 6th -7th October, National Seminar on Science for shaping the future of India at Jaipur, Rajasthan.
- 50. 2013.** 5th – 6th January 2013, Global Conference Management Education for the New World organized by Advent Age Education Foundation, Udaipur.
- 51. 2013.** 2nd -5th March, Presented a poster in 19th ISCB International Conference on “Recent Advances and current trends in Chemical and Biological Sciences” at Udaipur, Rajasthan.
- 52. 2013.** 11th -13th May , 1st Rajasthan Science Congress on “New Frontiers of Science and Technology and Innovation for Development in Rajasthan” at Jaipur, Rajasthan.
- 53. 2013.** 13th July attended Rajasthan Conclave organized by Desert Medicine Research Center. Jodhpur.
- 54. 2013.** 16th -18th September 12th International Conference on Vector and Vector Borne Diseases at Udaipur Rajasthan.