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<b>Department</b>	School of Studies in Chemistry & Biochemistry, Vikram University, Ujjain-456010, Madhya Pradesh, India.			
<b>Designation</b>	Professor and Head			
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### Educational Qualifications

Degree	Institution	Year
Ph.D.	Vikram University	1981
PG	Vikram University	1976
UG	Vikram University	1974
M. Phil.	Vikram University	1977

### Career Profile

Position	Classes taught	Employer	Period
Research Scholar	M.Sc.	UGC & ICMR	1977-81
Lecturer	M.Sc., M.Phil, Ph.D.	Vikram University	1981-90
Reader	M.Sc., M.Phil, Ph.D.	Vikram University	1990-98
Professor	M.Sc., M.Phil, Ph.D.	Vikram University	1998-continue

### Administrative Assignment

- Professor and Head, School of Studies in Chemistry and Biochemistry, Vikram University, Ujjain-(June 2008 to till date)
- Chief Coordinator, Confidential section( Examination) ,Vikram University, Ujjain since July 2004 (except three months) and conducted examination and declare results at the earliest among all the Universities of M.P. Earlier also worked in confidential section as coordinator.
- Started M.Sc. Drugs & pharmaceuticals (1992-96), in School of Studies in Chemistry, Vikram University, Ujjain.
- Started M.Sc. and M. Phil. in Biochemistry (2006 and 2010)
- Director, University Science Instrumentation Centre (USIC) 2002-2008.

- Chairmen, Central Board of Studies in Chemistry, M.P., 2003-2006.
- Chairmen, Board of Studies in Chemistry, Vikram University, 2003-2010.
- Expert Member Board of Studies in Chemistry: Jiwaji University, Gwalior (2009-2011), Sarojini Naidu Govt Girls Autonomous College, Bhopal (2003-2005), MLB Girls Autonomous College, Bhopal (2001-2003, 2005-2008), KRG Govt. Girls Autonomous college, Gwalior (2012-2014), Vikram University(2010 to till date),
- Expert Member Research Degree committee: Vikram University, being the Chairmen (2003-2010) and as HOD (2011-till date), Dr. B.R.Ambedkar University, Agra(2004-2006), MLS University, Udaipur (2002-2004), Allahabad University, Allahabad (),DAVV, Indore(2010-2012) Jiwaji University, Gwalior (2013),
- Expert Member Facility Management Committee of Scientific and Analysis Instruments Facilities, Department of Science and Technology, Govt. of India, at Centre Drug Research Institute, Lucknow (2004-2006)
- Expert Member UGC team to recognized (evaluate) deemed University
- Expert member to screen Application forms for the appointment of teachers at M.P. PSC , 2009
- Expert Member of different selection committees.
- Subject expert for M.P. State level Aptitude Test 2003 examination
- Member different committees in University examination system for improving the quality of university examination.
- Member Vikram University Court (Senate), 1985
- Member Academic Council, Science faculty, HPC, LPC, DPC, Library committee, Enquiry committees, standing committee, Different Games committee, Affiliation to colleges, youth festival, complaint committees etc.
- Expert member for the competitive examinations of UPSC, VYAPAM and PSC of different states and Universities.
- Expert member in Selection committees, RDC and Board of Studies of various Universities and other committees.
- Ex-Director, University Science Instrumentation Center and Central workshop (2004-

2008).

- Rich and vast Experience of Supervising and Monitoring Performance of about 1000 University/College Teachers and 100+ staff members and covering about 90000 students. in Different Administrative and Academic Capacities.
- Rich and vast experience of Supervision and Monitoring of 200+ PG and UG/Professional and NON Professional experience.
- Started M.Phil in Biochemistry subject (2010) in the chemistry department, for the students created computer lab, smart class room, better sitting arrangements,procured latest reference and text books in the library. Extention and furnishing of Heads chamber.
- Several students got Young Scientist and Best paper Awards.
- Being chairman Central Board of Chemistry, M.P., Bhopal and Chairman Board of Studies in Chemistry, V.U., introduced semester system and revised syllabus of PG and UG classes thoroughly based on UGC model syllabus and job opportunities.
- As Chief Coordinator of Confidential Section, in the university since 2004 and declared University results at earliest in the M. P. State.
- Successfully Implemented and Executed the Instructions/Directives of Higher Education Deptt. M. P. Govt. Bhopal and Coordinated Both- ANNUAL(Regular/Private) and Semester Exams Historical and Much needed reforms in the Examination System such as pattern of question paper viz. multiple choice, short and long answer questions. Single paper system, use of OMR sheet in FC paper, different level evaluation of answer books to expedite results. Online application of examination, RV& RT forms.
- Contributed as a President of Vikram University Teacher's Association (2003-2004),
- Actively contributed and made hard efforts for the promotion of teachers under CAS
- Developed, compiled and published the University Teachers Directory of all Teachers.
- Initiated Green and Clean Campus Drive with the support of Local Habitants .
- Elected Member of the Executive committee of ICC (2008- to till date)
- Life fellow of different societies actively associated with the upliftment of research and well beings of chemists.

- Actively Contributed as a Member of V,VI, VII,VIII,IX,X,XI th UGC Five Year Plan committees, and NACC( Departmental and University Level), and actively associated with the development of Mother Institution.
- Also actively participated with different committees of Youth festivals, Inter – University/National Level Sports Events , University Convocation Ceremonies, National Conferences, Seminars and other Mega-Events of the University.

### Area of Interest/ Specialization

- Research work conducted and supervised in the different fields of Natural Product Chemistry.
- Large number of medicinally important plants investigated and screened for biological activities.
- More than 100 new compounds have been isolated, characterized and reported in the Reputed & Leading National & International Journals.
- Screening of Biological Activities, Various extracts and compounds isolated from plants were simultaneously screened for biological activities.
- The results revealed very promising antifertility, antifilarial and antimicrobial activities in some of the extracts and compounds.

### Subjects Taught

Organic Chemistry, Analytical Chemistry, Spectroscopy, Organic Synthesis, Natural product, Medicinal Chemistry

### Publication Profile

#### Research Papers:

#### **(A). Journal Papers:**

#### **Research Article**

#### **International:**

1. Mehta B.K., et al., *Spectrochemica Acta Part A*, 1983, 39(7), 591-594
2. Mehta B.K., Batra Anita and Bokadia M.M., *Grassas Aceites*, 1986, 37, 42-43, *J. Chromat. (Review)*, 1986, 372, 8531
3. Mehta B.K., Batra Anita and Bokadia M.M., *Fette Seifen Anstrichmittel*, 1986, 88(5), 189-191
4. Mehta B.K., Batra Anita and Bokadia M.M., *Characterization of Amaranthus hybridus Phospholipids*, *Fette Seifen Anstrichmittel*, 1986, 88(5), 189-191

5. Mehta B.K. and Batra Anita, *Chromatographic analysis and antibacterial activity of the seed of *Argyrea speciosa**, *Fitoterapia*, 1985, 55(6), 357-359
6. Mehta B.K., Batra Anita and Bokadia M.M., *Fette Seifen Anstrichmittel*, 1986, 88(5), 189-191
7. Mehta B.K. and Batra Anita, *Fitoterapia*, 1985, 55(6), 357-359
8. Mehta B.K., et al., *Spectrochemica Acta Part A*, 1983, 39(7), 591-594
9. Mehta B.K., et al., *Phytochem.*, 1988, 27, 3004
10. Mehta B.K., Batra Anita and Bokadia M.M., *Acta Pharm Jugosl.*, 1986, 38, 63-66
11. Mehta B.K., et al., *Spectrochemica Acta Part A*, 1983, 39(7), 591-594
12. *Fitoterapia*, 1989, 60. 82-84
13. Mehta B.K., Dubey Avinash and Sharma Savita, "4-ethyl gallic acid from two *Mimosa spp.* *Phytochem*, 1988, 27, 3004 – 3005.
14. Mehta, B.K., Porwal Madhu and Sharma Sanjay, "In Vitro antimicrobial efficiency of *butea monosperma* outer seed oat extracts on human pathogenic bacteria and phytopathogenic fungi". *Fitoterapia*, 1988, LIX (2), 134-136.
15. Mehta B.K. et al., "Chemical composition and antimicrobial activity of some seedoils". *Fitoterapia*, 1988, LIX (2), 126-128.
16. Mehta B.K. and Sharma Savita, "In-vitro antimicrobial activity of *Echinops echinatus* root extracts. *Fitoterapia*, 1989, 60(1), 82 -83.
17. Mehta, B.K., Porwal Madhu and Sharma Savita, "In-vitro antimicrobial efficiency of *M. parasiaca* root extracts of human pathogenic bacteria and phytopathogenic fungi". *Fitoterapia*, 1989, 60(2), 157 – 158.
18. Mehta, B.K. et al., "Fatty acid composition of some seeds of leguminosae family". *Grasas Y. Aceites*, 1990, 41 (3) 224-226.
19. Mehta B.K., Mall, O.P. and Sharma Sanjay, "Invitro antimicrobial efficacy of *thuja orientalis* leaves extracts". *Fitoterapia*, 1990, LXI (5), 453 – 455.
20. Mehta B.K., Shitut Satish and Wankhede Harish, *Invitro antimicrobial efficacy of *Triphala**, *Fitoterapia*, 1993, LXIV(4), 371-372.
21. Mehta B.K., Nagar Vibha, Sharma Sanjay and Singh Pahup, *Separation and Identification of Isomeric Diterpenoids from *Thuja orientalis**, *Fitoterapia*, 1993, LXIV(5), 476-477.
22. Mehta B.K., Neogi R., Kotra S. and Mall O.P., *Antimicrobial activity of *Abutilon indicum**, *Fitoterapia*, 1997, LXIII (3), 273-274
23. *Centr. Eur. J. Publ.Hlth.*,1999, 7(3), 137-139

24. Mehta B.K., Singh Neelima, Keshri G. and Chaudhary S. R., Screening of post-coital Anti-implantation activity of *Artabotrys odoratissimus* (leaves) and *Nigella sativa* (seeds), *Biol. Memoirs*, 1999, 25(1), 38-39
25. Mehta B.K., Mustazi Jafri, Manoranjani M. and Singh Neelima, DIP MS study of *Tridax procumbens* Linn. , *J. Oil Tech. Assoc. Ind.*, 2001, 33(2), 60-61
26. Mehta B.K., Mustazi Jafri, and Sumeet Agrawal, DIP MS study of oil fraction of *Butea monosperma* Linn. , *J. Oil Tech. Assoc. Ind.*, 2001, 33(2), 61-65.
27. Mehta B.K., Manjul Verma and Amrita Itoria, DIP MS study *Centratherum anthelminticum* seed Oil , *J. Oil Tech. Assoc. Ind.*, 2001, 33(3), 113-114
28. Mehta B.K., Neelima Singh, Vikas Pandit and Manjul Verma, GC-MS Study of *Nigella sativa* (seeds) fatty oil, *Grasas Y Aceits*, 2002, 53(2),173-174
29. Mehta B.K., Megha Sharma, Shrilakshmi Desiraju and Dilip Chaurey, GC-MS Study of *Artabotrys odoratissimus* fatty oil (leaves), *Grasas Y Aceits*, 2002, 53(3), 187-189
30. Mehta B. K., Manjul Verma, Jafari M., Rupak Neogi and Shrilakshmi Deshiraju, Triterpenoids from the stem bark of *Pyrus communis*, *Nat. Prod. Res.*, 2003, 17(6), 459-463.
31. Mehta B.K., Darshana Mehta and Itoria Amrita, Structure Elucidation of a New acetylated Saponin from *Centratherum anthelminticum*, by NMR Spectroscopy, *Carbohydrate Res.*, 2004,339, 2871-2874
32. Mehta B.K., Darshana Mehta and Manjul Verma, Novel Steroids from the seeds of *Centratherum anthelminticum*, *Nat. Prod. Res.*,19(5), 2005, 435-442
33. Mehta B.K., Manjul Verma and Meenal Gupta, Novel Lipid constituents in Seeds of *Nigella sativa* , *J. Braz. Chem. Soc.*19(3) , 2008
34. Mehta B.K., Sharma Uma, Pandit Vikas, Agrawal Sumit, Joshi Nidhi and Gupta Meenal, Isolation and Characterisation of New compounds from seeds of *Nigella sativa*, *Med. Chem. Res.*, 2008, 17,462-473
35. Bhupendra Kumar Mehta, Prabha Mehta and Meenal Gupta, A new naturally acetylated triterpene saponin from *Nigella sativa*, *Carbohydrate Research* 344 (2009) 149–151
36. B K Mehta, Vikas Pandit, Meenal Gupta, New principles from seeds of *Nigella sativa*. *Nat Prod Res.* 2009 ;23 (2):138-48
37. Bhupendra Kumar Mehta, Uma Sharma, Sumit Agrawal, Vikas Pandit, Nidhi Joshi, Meenal Gupta, Isolation and characterization of new compounds from seeds of *Nigella sativa*, *Med Chem Res* (2008) 17:462–473

38. Himanshu Mishra, Bhupendra K. Mehta and Dharam C. Jain, Optimization of Extraction Conditions and HPLTC-UV Method for Determination of Quinine in Different Extracts of Cinchona species Bark, *Rec. Nat. Prod.* 2:4 (2008) 107-115.
39. S.Panda, M.Jafri, A.Kar, B.K.Mehta, Thyroid inhibitory, anti-peroxidative and hypoglycaemic effects of 24 S-S tigmasta-5, 22E-diene-3 $\beta$ -ol, isolated from *Butea monosperma*, *Fitoterapia* Volume 80, Issue 2, March 2009, Pages 123-126
40. Mehta B. K., Mehta D. and Itooria A., Isolation and structure determination of acetylated triterpenoid saponins from the seeds of *Centratherum anthelminticum*, *Natural Product Research*, 24(2), (2010):120-30.
41. Misra H, Dwivedi B K, Mehta D, Mehta, B. K. and Jain, D. C, Development and Validation of High Performance Thin-Layer Chromatographic Method for Determination of  $\alpha$ -Mangostin in Fruit Pericarp of Mangosteen Plant (*Garcinia mangostana* L.) using Ultraviolet – Visible Detection, *Records of Natural Product* 3:4 (2009) 178-186
42. Mehta Darshana, Kori Pramila, Mishra Himanshu and Mehta K Bhupendra, Novel lipid constituents identified from the leaves of *Artabotrys odoratissimus* (R.Br) , *Arabian Journal of Chemistry* (Accepted) Online Available
43. Mehta Darshana, Gupta Madhu , Kapoor Nisha, and Mehta K Bhupendra, Structure Elucidation of Triterpenoid Saponin from *Psidium Guajava* (Leaves) and its Antimicrobial Activity, *Journal of Asian Natural products* (Accepted)
44. Himanshu Misra, Darshana Mehta, B. K. Mehta and D. C. Jain, Microwave-Assisted extraction studies of target analyte artemisinin from dried leaves of *Artemisia annua* L., *Organic Chemistry International* 2013, Article ID 163028, 6 pages
45. Himanshu Misra, Darshana Mehta, Bhupendra Kumar Mehta and Dharam Chand Jain, Extraction of Dried Leaves of *Artemisia annua* L., using Microwaves and a Validated HPTLC-Visible Artemisinin, an Active Antimalarial Phytopharmaceutical in the Method for its Quantitative Determination (Manuscript accepted in *Journal of Analytical Methods in Chemistry*).
46. Nisha Kapoor, Himanshu Misra, Darshana Mehta, M. Gupta and B. K. Mehta, Gas Chromatography-Mass Spectrometric and Antimicrobial Studies on n- Hexane and Benzene Extracts of the *Mangifera indica* (Flowers) (Manuscript submitted to *Journal of Analytical Methods in Chemistry*)

**Nationals:**

1. Mehta B.K., Dubey A. and Bokadia M.M., *Ind. J.Chem.*,1983, 22(3), 282-283
2. Mehta B.K., Batra Anita and Singh Sangita, *J. Ind.Chem.Soc.*, 1988,65(7), 512
3. Mehta B.K., Batra Anita and Mehta S.C., *Ind. Perfumer*,1984, 28(3), 123-125
4. S Jaiswal, Anita Batra, and B. K. Mehta, *The Antimicrobial Efficiency of Root Oil Against Human Pathogenic Bacteria and Phytopathogenic Fungi, Journal of Phytopathology, Volume 109, Issue 1, pages 90–93, 1984*
5. Mehta B.K.and Gwarikar Rekha, *Characterisation of a novel triterpenoid from Curculigo orchioides, Ind.J.Chem.*,1991,30(B), 986-988
6. Mehta B.K et al. *Ind. Drugs*, 1988, 25, 351
7. Mehta B. K et al., *J.Ind. Chem. Soc.*, 1988, 65, 69-70
8. Mehta B.K., Dubey Avinash and Bokadia, M.M. "Debenzylation by bromine". *Proc. Nat. Acad. Sci. (India)*, 1987, 57 (A) IV, 790 – 797.
9. Mehta B.K., Radhakrishna and Batra Anita, "Photochemical reactions in alkali halide matrix decarboxylation of fumaric acid in ethylene by uranyl nitrate in a pressed potassium bromide disk". *Proc. Nat. Acad. Sci. (India)*, 1988, 58 (A), 437 – 439.
10. Mehta B.K., Porwal Madhu and Sharma Savita, "Isolation and Identification of a new derivative of allophonic acid from the seed coat of *Buten monosperma (Lam) Kuntze*. *Ind., J. Chem.*, 1988, 27B, 281-282.
11. Mehta B.K., and Mishra, Shashwat, "Estrogenic and antiestrogenic activities of *Pyrus communis* Linn (Stem bark). *Indian Vet. Med. J.*, 1988, 12, 40-44.
12. Mehta , B.K., Porwal Madhu and Sharma Savita, "Antifertility activity of *Echinops echinatus*". *Ind. J. Med. Sci.*, 1988 42 (2), 23 -26.
13. Mehta, B.K. and Mishra Shashwat, "Post-coital contraceptive efficacy of *Pyrus communis* Linn (stem bark) in albino rats", *Ind. Drugs*, 1988, 25(5), 176-177.
14. Mehta , B.K., Sharma Savita and Porwal Madhu, "Chemical investigation of *Echinops echinatus*". *J. Ind. Chem. Soc.*, 1988, LXV, 69-70.
15. Mehta, B.K., Porwal Madhu and Gupta D.N., "Isolation of a new trizine and antifertility activity of *Buten monasperma (Lam). Kuntze, Seed Coat*". *Natl. Acad. Sci. Lett. (India)*, 1988, IX(3).
16. Mehta B.K., Porwal Madhu and Batra Anita, "Some new compounds from the rhizomes of *C. Orchioides Gaertn*". *Ind. J. Chem.*, 1988, 27 (B), 856-857.
17. Mehta B.K., Batra Anita and Singh Sangita, " Photochemical reaction of ferric oxalate in a pressed potassium bromide disk". *J. Ind. Chem. Soc.*, 1988, 65 (7), 512.



18. Mehta, B.K., Sharma Savita and Mishra Shashwat, "Post-coital contraceptive efficacy and hormonal profile of *Musa Paradistance*". *Ind. Drugs*, 1988, 25(7), 290-292.
19. Mehta, B.K. and Sharma Savita, "Post coital contraceptive effect of *Echinops echinatus*: a Pilot study". *Ind. Drugs*. 1988, 25(8), 351.
20. Sharma KS, Mishra S, Mehta BK. Antifertility activity of *Echinops echinatus* in albino rats. *Indian Journal of Medical Sciences*. 1988 Feb; 42(2): 23-6
21. Mehta, B.K., Sharma, Savita and Porwal, Madhu, "A new Aliphatic compound from *Curculigo orchoids Gaertn*". *Ind.J. Chem*. 1990, 29(5) 493-494.
22. Mehta, B.K. and Sharma Savita, "15-Hydroxypentacosanoic acid and a hydrazine derivative from *Butea Monosperma (Lam) Kuntze*. *Ind. J.Chem.*, 1991, 30 B (7), 715-716.
23. Mehta B.K. and Gwarikar Rekha, Characterisation of a novel triterpenoid from *Curculigo orchoides Gaern*, *Indian J.Chem.*, 1991, 30(10)B, 986-988.
24. Mehta B.K. and Sharma Sanjay, *Invitro Antimicrobial efficacy of Centratherum anthelminticum seed extracts*, *J. Hyg. Epidemiol. Microbiol. Immunol.*, 1991, 35, 2: 157-162.
25. Mehta B.K., Sharma Sanjay and Singhal K.C., Antifilarial activity of *Centratherum anthelminticum seed extracts on Setaria cervi*, *Ind. J. Expt. Biol.*, 1992, 30, 546-548
26. Mehta B.K. and Gwarikar Rekha, Identification of novel Aliphatic compounds from *Citrullus colocynthis (roots)* *Indian J.Chem.*, 1994, 33B, 897-898.
27. Sharma, S., B.K. Mehta and D.N. Gupta, Screening of post-coital antiimplantation activity of *Machela champaca (anthers)* and *Centratherum anthelminticum (seeds)*, 1994, *Indian Drugs* 31, 280--281
28. Mehta B.K., Jain Preeti and Singh Neelima, Chemical Examination of *Artabotrys odoratissimus (leaves)*. *Ind. J. Chem*. 1998, 37(B), 618-620
29. Mehta B.K., Neogi R., Bokadia M.M., Macleod A.J. and Patel H., The Essential Oil of *Abutilon indicum*, *Ind. Perf.*, 1998, 42(2), 80-81
30. Mehta B.K. and Sharma Sanjay, Isolation and Characterisation of a novel amide from *Michelia champaka*, *Ind. J. Chem.*, 1998, 37(B), 1219-1220
31. Mehta B.K., Pandit V. and Shitut Satish, The Antimicrobial efficiency of *Piper betle (leaf stalk)* against human pathogenic bacteria and phytopathogenic fungi, *Central european journal of public health* 1999, vol. 7, 3, pp. 137-139
32. Mehta B.K. and Kotra Shrilakshmi, Prevention of Mercuric chloride cerebellar damage in mice with a multiherbal hepatic drug - results and possibilities. *Ind. J. Occup. Hlt.*, 1999, 68

33. Mehta B.K., Jain Preeti and Kotra S., Identification of novel aliphatic compounds from *Artabotrys odoratissimus* (leaves), *Ind. J. Chem.* , 1999, 38B(11), 1304-1306
34. Porwal, M. and B.K. Mehta, *Curculigo orchioides -- a medicinally important plant*, 1985, Nagarjun 29, 3, 12--13
35. Mehta B.K., Sharma Megha and Shitut Satish , Identification of novel compounds from *Thuja orientalis* (leaves), *Ind. J. Chem.*,1999, 38B(8),1005-1008
36. Mehta B.K., Kotra S. and Manoranjani M., *Chemical Examination of Citrullus colocynthis (roots)*, *Ind. J. Chem.*,1999, 38B(9), 1148-1150
37. Mehta B.K., Preeti Jain, Megha Sharma and Neelima Singh , *Chemical Investigation of Artabotrys odoratissimus (leaves)*, *Vik. Univ.*, XXVII (1&3), 115-119 (2001)
38. Mehta B.K., Vibha Nagar, Satish Shitut, Nagar Sanjay and Sharma Sanjay, *Novel Diterpenoids and aliphatic compounds from Thuja orientalis (leaves)*,*Ind. J. Chem.*, 2002,41B(5), 1088-1092
39. Mehta B.K., Manjul Verma, Shrilakshmi Kotra and Mustazi Jafari, *Lipid constituents from Centratherum anthelminticum (seeds)*, *Ind. J. Chem.*,2004, 43(B), 442-446
40. Mehta B.K., Megha Sharma, M.Jafari and Neelima Singh, *Anthraquinones from Artabotrys odoratissimus (leaves)*, *Ind. J. Chem.*, 44B, 1740-1741 ( 2005)
41. Mehta B.K., Manjul Verma, Darshana Mehta and Neelima Singh, *Two New Lipid constituents of Nigella sativa (seeds)*, *Ind. J.Chem.*, 44B(8),1742-1744 (2005)
42. Mehta B.K., Meenal Gupta and Manjul Verma, *Steroid and aliphatic esters from the seeds of Nigella sativa* , *Ind. J.Chem.*, 45B, 1567-1571 ( 2006 )
43. Mehta B K, Ojha Rohini, Kori Pramila, Thapak T R and Mehta Prabha, *Lipid constituents from the leaves of Artabotrys odatissimus*, *Int. J. Of. Chem. Sci.*, 2009, 7(2), 1395-1402
44. Misra H, Soni, M, Mehta D, Mehta, B. K. and Jain, D. C, *An improved HPTLC – UV method for rapid estimation of andrographolide in Andrographis paniculata (Burm. f) Nees* , *InPharm Communique (Suppl.)*, Vol 2, No 2, (2009), 51-54.
45. Misra H, Soni, M, Mehta D, Mehta, B. K. and Jain, D. C, *Study of extraction and HPTLC - UV method for estimation of caffeine in marketed tea (Camellia sinensis) granules*, *International Journal of Green Pharmacy*, 3(1), (2009), 47-51.
46. Mehta D., Misra H, Soni, M, Mehta, B. K., Silawat, N. and Jain, D. C, *Antidiabetic activity of medium-polar extract from the leaves of Stevia Rebaudiana Bert. (Bertoni) on alloxan-induced diabetic rats*, *Journal of Pharmacy and Bioallied sciences*, 3(2), (2011), 242-48.
47. Mehta Darshana, Gupta Madhu , Kapoor Nisha, and Mehta K Bhupendra, *GC-MS Analysis and Anti-*

*microbial Activity of Psidium Guajava (Leaves) grown in Malwa region of India, International Journal of Drug Development & Research, 2011, 3 (4), 156-164.*

48. BK Mehta, Varsha Nigam, Ritu Nigam and Asheesh Singh, Gas chromatography mass spectrometry (GC-MS) analysis of the hexane extract of the Syzygium cumini bark, Journal of Medicinal Plants Research Vol. 6(25), pp. 4163-4166, 2012

49. B. K. Dwivedi and B. K. Mehta, Chemical investigation of Benzene extract of Psidium guajava (leaves), J. Nat. Prod. Plant Resour., 2012, 2 (1):162-168

50. Shweta Sharma, B K Mehta, Darashana Mehta, Hemant Nagar, Aditya Mishra, A review on pharmacological activity of Syzygium cumini extracts using different solvents and their effective doses, International research Journal of Pharmacy, 3(12), 54-58.

51. Mustazi Jafri, B.K. , Isolation of Long Chain Aliphatic Compound from Momordica Diocia (Roots), International Journal of Pharmacognosy and Phytochemical Research 2013; 5(1); 74-75

**(B). Conference Papers:**

**International:**

Near about 10

**Nationals:**

More than 80 papers

**Books Published:**

*Authors name(s), Title of the book, name of the publisher, year*

1. Co-Author in four books, Published by M.P.Hindi Granth Academy, Bhopal  
Post Graduate Organic Chemistry (2009)  
Organic Chemistry Part I (2003)  
Organic Chemistry (1995)  
Organic Chemistry (1990)  
Edited one book Organic Chemistry Part I (2003)

**Research Guidance**

***Supervision of awarded Doctoral Thesis:***

1. Ms. Anita Batra (as coguide), 1985  
*Physiochemical Studies of Vegetable Oils and Fats*
2. Ms. Savita Sharma, 1987  
*Chemical Investigation of Antifertility active components of roots of Musa paradisiacal and Echinops echinatus*

3. *Sh. Shashwat Mishra, 1987*  
*Chemical Investigation of Antifertility active components of Pyrus communis (stem bark) and Citrullus colocynthis (roots)*
4. *Ms. Madhu Porwal, 1990*  
*Chemical Investigation of Medicinally and Economically important plants available in Malwa and Nimar*
5. *Smt. Rekha Gwarikar, 1990*  
*Chemical Studies of Antifertility activity of plant products*
6. *Sh. Sanjay Sharma, 1990*  
*Chemical Study of Thuja orientalis and Centratherum anthelminticum*
7. *Sh. Rupak kumar Neogi, 1993*  
*Chemical examination of Indian Medicinal plants*
8. *Ms. Preeti Jain, 1994*  
*Phytochemical and Biological Studies of regionally available Medicinal Plants*
9. *Sh. Satish Shitut, 1994*  
*Chemical Investigation of regionally available Medicinally important plants*
10. *Ms. Manoranjani Mediconda, 1997*  
*Chemical Investigation of Medicinally important plants*
11. *Ms. Shrilakshmi Kotra, 1998*  
*Chemical Investigation of regionally available Medicinal plants*
12. *Neelima Singh, 1998*  
*Chemical Studies and Testing of Antifertility activity of some regionally available Medicinal plants*
13. *Sanjay Nagar, 1998*  
*Isolation and Identification of Chemical constituents of Medicinally important plants of Indore Districts*
14. *Megha Sharma, 2001*  
*Isolation and Identification of active constituents of Citrullus colocynthis and Artabotrys odoratissimus*
15. *Manjul Verma, 2001*  
*Isolation and Identification of Chemical constituents of the seeds of Centra- therum*

*anthelminticum and Nigella sativa*

16. Vikas Pandit, 2002  
*Chemical and Biological Studies of Nigella sativa*
17. Mustazi Jafri, 2002  
*Chemical examination of Butea monosperma(bark) and Momordica diocia (roots)*
18. Dilip Chourey, 2002  
*Chemical Studies of Abutilon indicum (N. Kanghi, leaves)*
19. Sumit Agrawal, 2003  
*Phytochemical and Biological investigation of Butea monosperma Lamk (bark) and Citrullus colocynthis (Linn. Roots)*
20. Amrita Itoria, 2003  
*Phytochemical and Biological screening of Centratherum anthelminticum (seeds) and Psidium guajava (leaves)*
21. Bhupendra Tiwari, 2003  
*Chemical and Biological Studies of Artabotrys odoratissimus (R.Br., leaves)*
22. Mrs. Pramila Kori, 2004  
*Chemical and Biological Studies of Artabotrys odoratissimus (R.Br., leaves)*
23. Ms. Amrita Rawal, 2005  
*Studies of Plant metabolites in Piper betle (leaf stalk) and Nigella sativa (seeds)*
24. Ms. Darshana Mehta, 2006  
*Structural and Biological Studies of Metal Complexes derived from medicinal plant constituents*
25. K.S. Rao, 2007  
*Physicochemical investigation of Artabotrys odoratissimus (H. Kantili champa, Nagchampa, Manoranjani, Family Annonaceae)*
26. Ms. Meenal Gupta, 2007  
*Studies in Medicinal Plants, isolation and characterization of active novel compounds*
27. Y.P. Ramana Reddy, 2008  
*Secondary plant metabolites from Centratherum anthelminticum (Willd) Kuntze syn. Vernonia anthelmintica (seeds)*

28. Binit Kumar Diwedi, 2008  
*Phytochemical investigation of Piper betle (leaf stalk) & Psidium guajava (leaves)*
29. Rohini Oza, 2008  
*Structural and Biological studies of Medicinal plant constituents from Artabotrys odorattissimus (leaves) and Butea monosperma, (bark)*
30. Ms. Ritu Nigam, 2010  
*Butea monosperma (bark) and Psidium guajava(leaves) : Traditional uses and Recent findings*
31. Ms. Sandhya Diwedi, 2010  
*Characterization of secondary metabolites from Abutilon indicum (Linn.S.W., leaves)*
32. Mrs. R.M.Ananta Laxmi,2011  
*Study of terpenoids and flavonoids from Centratherum anthelminticum (Willd) Kuntze syn. Vernonia anthelmintica (seeds) and screeninig of Biological activities*
33. Ms. Varsha Nigam, 2011  
*Studies on chemical constituents of Syzygium cumini (bark)*
34. Ms. Nisha Kapoor, 2011  
*Phytochemical investigation of Medicinal plant constituents from Psidium guajava (leaves) and Mangifera indica (flowers)*
35. Sh. Gorelal, (as co-supervisor), 2011  
*Hierachy-QSAR Study of some aromatic Nitro compounds*
36. Smt. Rashmi Nagar 2013  
*Structure and biological studies of constituents from the fruit rind of Punica granatum*
37. Dipika Sharma  
*QSAR investigation of anti inflammatory compounds.*
38. Priyanka Mukadam  
*QSAR investigation of anti malarial compounds*
39. Manish Mourya(submitted)  
*Microwave induced synthesis, characterization and biological evaluation of benzimidazoles, chalcones and pyramidines of medical interests.*

**Supervision of Doctoral Thesis, under progress:**

Himanshu Misra  
Bhagwan S Gupta  
Naveen Kumar Karumanchi  
Reena Maheshwari  
Danish  
Sarita Tiwari

**Supervision of M.Phil dissertations:**

More than 110 dissertations

**Conferences Organized**

- Organized National seminar on Elemento-Organic Chemistry (From Basic research to Industrial Applications), organized by S. S. In Chemistry, Vikram University, Ujjain (M. P.) on 27-28<sup>th</sup> January 2003.
- Organized National Conference and Workshop for students of PG Colleges of Vikram University.
- National Conference on Social, Educational, Technological and Medicinal Relevance of Chemistry to Celebrate International year of Chemistry-2011, Nov. 25-26
- Academic Workshop on New Trends in Chemistry 2010, Mar. 26-27

**Conferences / Seminars etc. Attended**

- Delivered invited talk on the topic entitled "Use of chemical Finger printing for quality monitoring studies of medicinal plants using HPLC." in National symposium on New frontiers in Chemical Sciences at centre of Advanced Studies, Department of Chemistry, university of Rajasthan, Jaipur on 25-02-2010.
- Invited as guest of honour and delivered lecture on Global Warming in the seminar on Environment at Govt. MLV College Bhilwara on 21-04-2010.
- Invited lecture in the Seminar on "Recent Advances in Spectroscopic Methods" at Indore in 2007.
- Delivered lecture on Mass Spectrometry at Allahabad, Udaipur and Indore in the refresher course.
- Delivered lecture on the characterization of organic compounds by spectroscopic to M. Sc. Students under UGC visiting fellow and Chemical Association at Holkar Science College, Indore on 15-04-2010.
- Attended 8<sup>th</sup> Chhattisgarh Young Scientist Congress-2010 as Judge in year 2010 at Pt. R S University, Raipur.

**Research Projects**

**National Agencies:** 10, (UGC-4,CSIR-3, ICMR-2, DSTYS-1)

**State level Agencies:** 02 (MPCOST-2)

**Name of Project:**

**Position in Project:**

**Period:**

**Grant:**

### Awards and Distinctions

- **Young Scientist Project awarded by Department of Science & Technology, Govt. of India**
- **Dr. P.D.Sethi's Appreciation award** in the field of Pharma, Herbal and Miscellaneous Analysis to two research papers in the year 2009 entitled:
  - *Development and Validation of High Performance TLC Method for Determination of a –Mangostin in fruit pericarp of Mangosteen Plant (Garcinia mangostana L.) using Ultraviolet Visible detection.*
  - *Study of extraction and HPTLC –UV method for estimation of caffeine in marketed tea (Camellia sinensis) granules.*

➤ **Young Scientist Award:**

The research work carried out in my lab under my Research guidance, resulted into MPCOST Young Scientist Award- to 5 of my Ph.D.

Research Students

1	Sh. Sanjay Sharma	1990
2	Ms. Manoranjani M.	1996
3	Ms.Srilaxmi Kotra	1996
4	Ms.Amrita Itoria	2003
5	Ms. Darshana Mehta	2005

### Association with Professional Bodies

**Committees and Boards**

Ind.J.Chemistry (Council of Scientific and Industrial Research, New Delhi),  
Medicinal and Aromatic Plants Abstracts (MAPA, NISCARE, CSIR, New Delhi),  
Int.J. Chem.Sci.,(Sadguru publications, Udaipur)  
J.Ind.Chem.Soc.,(Indian Chemical Society, Calcutta)

**Memberships**

- **Life fellow & Membership of Professional Bodies** :
- 1 Indian Chemical Society



- 2 Indian Council of Chemists
- 3 Indian Science Congress Association
- 4 Indian Society for Medicinal and Aromatic Plants
- 5 Indian Association for History and Philosophy of Science

## **Other Activities**

### **Research Interests**

- The development of dependable, environmentally benign processes for the synthesis of nanoscale materials is an important aspect of nanotechnology. Biological routes to the synthesis of these particles have been proposed including production by vascular plants, known as phytoextraction.
- To develop environment friendly, solvent free, cost and time effective techniques such as from Microwave assisted and Ultrasonic extraction for isolation and synthesis.
- Isolation and structure elucidation of secondary metabolites from medicinal plants used by indigenous people.
- Search for antifilarial, antifertility and antimalarials agents from plants in the endemic areas.
- Synthesized the derivatives of naturally isolated active biomolecules and prepared their metal complexes and characterized them.
- Biomimic transition metal complexes and their studies (*invitro*).

### **Survey Articles**

#### **Popular Article**

Sushma Jaiswal, Mehta, B.K. and Jain, S. Protein bound amino acids of medicinally important plant seeds, 1984, 18

Neelam Gurnani, Dr.Nisha Kapoor, Dr. Madhu Gupta & Dr. B. K. Mehta, Chemistry & Allied Sciences – Emerging Future Technologies to Boost up Lives, IOSR Journal of Pharmacy Vol. 2, Issue 1, Jan-Feb.2012, pp. 090-096

### **Delivered Lectures**

#### **Forthcoming Research**

The development of dependable, environmentally benign processes for the synthesis of nanoscale materials is an important aspect of nanotechnology. Biological routes to the synthesis of these particles have been proposed including production by vascular plants, known as phytoextraction.