



University of Kota

MBS Marg, Kota (Rajasthan)-324 005

Faculty Profile

Name : DR. BHAWANI SINGH
Designation : Associate Professor
Address : Department of Pure & Applied Chemistry
University of Kota
MBS Marg, Kota (Rajasthan)-324 005, INDIA
Phone Number : +91-744-2471742 (Office), +91-94 144 244 34 (Mobile)
E-mail IDs : bsyadav@uok.ac.in
bsyadav2000@gmail.com



Educational Qualifications:

Name of Degree	Institution	Year
Ph. D. (Chemistry)	Mohan Lal Sukhadia University, Udaipur (Rajasthan) Title of Thesis: Synthesis and Biological Activities of Heterocyclic Compounds and their Hydroxylamine derivatives.	2002
M. Sc. (Chemistry)	Mohan Lal Sukhadia University, Udaipur (Rajasthan)	2000
B. Sc. (Bio. Group)	Govt. R.R. College, Alwar (University of Rajasthan, Jaipur)	1997

Career Profile:

Industrial:

- From 22/05/2003 to 02/12/2003 : Research Scientist-Jubilant Organosys Limited, NOIDA (UP).
- From 03/12/2003 to 01/06/2004 : Officer (R&D)-Vitalife Laboratories, Gurgaon (Haryana).

Academic:

- From 04/07/2004 to 31/08/2007 : Lecturer, Banasthali Vidyapith, Banasthali (Rajasthan).
- From 01/09/2007 to 30/06/2009 : Senior Lecturer, Banasthali Vidyapith, Banasthali (Rajasthan).
- From 01/07/2009 to 30/09/2011 : Assistant Professor, Banasthali Vidyapith, Banasthali (Rajasthan).
- From 01/10/2011 to 13/02/2013 : Associate Professor, Banasthali Vidyapith, Banasthali (Rajasthan).
- From 13/02/2013 to date : Associate Professor, University of Kota, Kota (Rajasthan).

Job Responsibilities:

Current:

- Chairperson, Cell for Differently Abled Persons
- Nodal Officer, UGC Online Students' Grievance Redressal Portal
- Convener, Departmental Committee, Smart Village-Dungarjya
- Admission In-charge, M.Sc. Chemistry 2017-18
- Instrument-in-Charge, Analytical Instruments in Chemistry
- University Representative in Management Committee / Governing Council of College
 - Saraswati Mahila TT College, Sawai Madhopur
- Member:
 - IQAC
 - UGC Cell
 - IT Cell
 - NIRF Committee
 - RUSA Committee
 - AAA Committee
 - Discipline Committee
 - SSR Preparation Committee
 - NAAC Steering Committee
 - BOS-Chemistry
 - COC-Applied Chemistry
 - University Beautification Committee
 - Central Admission Committee 2017-18
 - Annual Report Preparation Committee
 - Departmental Technical Committee
 - DST-FIST Project Implementation Committee
 - International Student's Office
 - Cell for Small and Medium Enterprises

Previous:

- Assistant Centre Superintendent: University Exam. May 2017
- Assistant Centre Superintendent: UGC-NET Dec-2013, Jun-2014, Dec-2014
- Convener, Printing of Materials for the University 2013, 2014, 2015, 2016, 2017
- Convener, Printing Committee, 2nd, 3rd & 4th Convocations-2013, 2016 & 2017
- Convener, Printing of Materials for the University 2013, 2014
- Convener, Diary Printing Committee-2014, 2015

- Co-convenor, University Flying Squad, 2014, 2015
- Admission-in-Charge, M.Sc. Chemistry 2014-15
- Admission-in-Charge, M.Sc. Industrial Chemistry 2014-15
- Presiding Officer, Student's Union Election-2013, 2014, 2015, 2016
- Chief Counting Officer, Students' Union Election-2013, 2015
- University Representative in Management Committee / Governing Council of College:
 - Mata Bhagwati Devi Dev Sanskriti Mahila Mahavidyalaya, Siswali from 2013 to 2016
 - Maharshi Dayanand College, Siswali from 2013 to 2016
- Member:
 - Academic Council 2015-2017
 - Central Admission Committee for General Courses-2013, 2014, 2015
 - Central Admission Committee for Professional Courses-2013, 2014
 - Discipline Committee during Cultural Programme-2014, 2015
 - Departmental / University Purchase Committee-2014, 2015
 - COC-Chemistry, ML Sukhadia University, Udiapur-2013 to 2016
 - BOS-Chemistry at Banasthali Vidyapith from 2004 to 2012.
 - Faculty of Science at Banasthali Vidyapith from 2004 to 2012.
 - B.Tech. Admission Committee at Banasthali Vidyapith from 2007 to 2012.
 - Website Updation Committee at Banasthali Vidyapith from 2008 to 2012.

Subject / Papers Taught:

(A) UG Level

- Inorganic Chemistry
- Organic Chemistry
- Physical Chemistry
- Analytical Chemistry
- Environmental Chemistry
- Practical

(B) PG Level

- Organic Chemistry
- Stereochemistry
- Spectroscopy
- Group Theory
- Practical
- Organic Synthesis
- Disconnection Approaches
- Bio-organic Chemistry
- Enzymes & Co-enzymes
- Heterocyclic Chemistry
- Medicinal Chemistry
- Pharmaceutical Chemistry
- Chemistry of Natural Products

Research Interest / Specialization:

Organic Chemistry, Organic Synthesis, Asymmetric Synthesis, Catalysis, Heterocyclic Chemistry, Medicinal Chemistry, Drug Design & Development, QSAR study.

Research Guidance:

Ph. D. Degree Awarded:

S. No.	Name of Student	Title of the Thesis	Ph.D. Degree Awarded on
01.	Ms. Bharati Vashishtha	Studies on the synthesis of hetero ring annulated benzimidazole derivatives of biological interest.	19-01-2011
02.	Ms. Ruchi Tyagi	Studies on the synthesis of hetero ring annulated indazole derivatives of biological interest.	19-01-2011
03.	Ms. Neelam Kumari Yadav	Studies on the synthesis of hetero ring annulated quinoxaline derivatives of biological interest.	19-01-2011
04.	Ms. Taruna Yadav	Studies on the synthesis of hetero ring annulated quinoline derivatives of biological interest.	19-01-2011
05.	Mr. Patel Pradipkumar Chandubhai	Synthesis and biological evaluation of novel isoflavone, isoxazole, pyrazole and indole based medicinally potent agents.	09-10-2011
06.	Ms. Shruti	Studies on the synthesis of hetero ring annulated phenoxazine derivatives of biological interest.	09-10-2011
07.	Ms. Anuradha Sharma	Microwave assisted oxidation of alcohols with oxochromium(VI) supported on ZSM-5.	20-03-2013
08.	Ms. Pragati Sharma	Synthesis and Evaluation of therapeutic profile of thiazole substituted hetero ring condensed pyrimidines derivatives.	20-03-2013
09.	Ms. Neha Bhardwaj	Synthesis and Evaluation of biological activity of thiazole-substituted hetero ring condensed carbazoles and azacarbazoles.	12-03-2014
10.	Ms. Patel Madhaviben Rugnathbhai	Analytical method development for selected newer active pharmaceutical ingredients (APIs) and their formulations.	16-02-2016
11.	Ms. Iram Khan	Synthesis and evaluation of pharmacological profile of some novel hetero ring fused five-, six- and seven-membered heterocyclic compounds and their derivatives.	14-10-2016

12	Ms. Anupma Kumari	Synthesis, characterization and evaluation of therapeutic profile of hetero ring substituted s-triazine derivatives.	14-10-2016
13.	Ms. Shashi Shekhawat	Studies on the synthesis of hetero ring annulated 1, 3, 5-triazene derivatives of biological interest.	14-10-2016

Ongoing Doctoral Research:

14.	Ms. Nidhi Jain	Synthesis, characterization and evaluation of biological activities of some aryliminothiazolo fused five-, six- and seven-membered heterocycles.	Thesis submitted on 18/12/2016
15.	Mr. Newase Kiran Madhukar	Application of multi-component reactions in drug discovery: Synthesis and evaluation of therapeutic profile of some novel spirocyclic heterocycles.	-----
16.	Ms. Sangeeta Yadav	Studies on Synthesis, Characterization and Pharmacological Profile of Tetrazoles and their Derivatives	-----
17.	Ms. Pragya Khandal	Studies on Synthesis, Characterization and Pharmacological Profile of Benzothiazepines and their Derivatives	-----

Research Projects:

S. No.	Title of Project	Amt. (in Rs)	Funding Agency	Duration
01.	Synthesis of biologically active hetero ring condensed carbazole derivatives.	50,000/-	Banasthali Vidyapith	2007-2009
02.	Synthesis and evaluation of pharmacological profile of some novel hetero ring fused five-, six- and seven-membered heterocyclic compounds and their derivatives.	5,25,000/-	UGC, New Delhi	2012-2015
03.	Application of multi-component reactions in drug discovery: Synthesis and evaluation of therapeutic profile of some novel spirocyclic heterocycles.	11,58,000/-	Fast Track Young Scientist Scheme, DST, New Delhi	2013-2016

Research Publications:

(a) Research Papers published in Refereed/Peer Reviewed Journals:

- Nidhi Jain, Radha Chaudhary and **Bhawani Singh**. Dimethyl aminomethylene Ketones and α,β -Unsaturated Ketones with Thiazolyl substituted 4-Thiazolidinone Framework: Versatile Reactive Intermediates to Synthesize a Variety of Medicinally Potent Heterocycles. *Research Journal of Chemical Sciences*, 2017, 7(1), 37-44.
- Nidhi Jain and **Bhawani Singh**. An Overview of Biological and Synthetic Aspects of Thiazole Derivatives in Heterocyclic Chemistry. *World Journal of Research and Review*, 2016, 3(5), 52-57.
- Taruna Yadav, Neelam K. Yadav, Manju Yadav **Bhawani Singh** and D. Kishore. Application of Pfitzinger Reaction in the Synthesis of Hetero Ring Annelated QuinolineCarboxylic Acid Derivatives. *Asian Journal of Chemistry*, 2016, 28(6), 1177-1180.
- Taruna Yadav, D. Kishore and **Bhawani Singh**. Synthesis, characterization and evaluation of pyrazolo- and oxazolo-pyrido carbazoles and pyridoazacarbazoles as potent anti-microbial agents. *British Journal of Pharmaceutical Research*, 2015, 8(3), 1-9.
- Anupma and **Bhawani Singh**. Synthesis of Isoxazoles and Pyrazoles Containing Pyrimidine Substituted s-Triazines. *Chemical Science Transactions*, 2015, 4(3), 649-653.
- Anupama, Iram Khan and **Bhawani Singh**. Synthesis of Biologically important s-triazine based chalcones. *International Journal of Pharmaceutical Science and Research*, 2015, 6(8), 3209-3214.
- Iram Khan & **Bhawani Singh**. Synthesis and biological evaluation of some novel aryl substituted thiazolyl-4-thiazolidinone fused pyrimidines as potent anti-microbial and anti-inflammatory agents. *International Journal of Chemistry and Pharmaceutical Sciences*. 2015, 3(6), 1759-1763.
- Madhavi Patel, Batuk Dabhi, Hetal Jebaliya, **Bhawani Singh** and Anamik Shah. Simultaneous estimation of Tolterodine tartrate and Tamsulosin HCl by validated HPTLC assay method from combination capsule form. *Journal of Chemical and Pharmaceutical Research*, 2015, 7(5), 81-88.
- Iram Khan, Anupama and **Bhawani Singh**. 1,4-Benzodiazepine: An overview of biological properties. *Science Reviews & Chemical Communications*, 2015, 5(1), 13-20.
- Aruna Sharma, D. Kishore and **Bhawani Singh**. Recurrence of cancer with long term side effects of cancer treatment. *World Journal of Pharmaceutical Research*. 2015, 4(6), 888-901.
- Madhavi Patel, Sheetal Makwana, Hetal Jebaliya, Batuk Dabhi, Yashwantsinh Jadeja, **Bawani Singh**, Jatin Upadhyay and Anamik Shah. Simultaneous quantification of the nortriptyline, bupropion, milnacipran, fluoxetine and sertraline of the antidepressant class of drugs by HPLC-UV: A simple, rapid and sensitive quantification method. *Pharmanest*, 2015, 6(3), 2831-2833.
- Madhavi Patel, **Bawani Singh** and Anamik Shah. Stability indicating UPLC method for quantification of tolperisone HCl and paracetamol from muscle relaxant combination tablet. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2015, 7(8), 299-304.
- Anupma and **Bhawani Singh**. Synthesis of Pharmacologically important some novel pyrimidine and

- chalcone moieties containing s-triazines. *American Chemical Science Journal*, 2015, 8(2), 1-7.
14. Anupma and **Bhawani Singh**. Synthesis of 1,3,5-Triazine Based Pyrimidines as Potent Anti-Bacterial and Anti-Fungal Agents. *World Journal of Pharmaceutical Research*, 2015, 4(6), 1395-1402.
 15. Neelam K. Yadav, D. Kishore, **Bhawani Singh**. Synthesis and Characterization of Some Novel Isoxazoles and Pyrazoles of Carbazolo and Azacarbazolo Fused Quinoxalines. *International Journal Current Research*, 2015,7(5), 16074-16078.
 16. Neelam K. Yadav, D. Kishore, **Bhawani Singh**. Synthesis of benzodiazepino / oxazepino / thiazepino fused some novel pyrazinocarbazoles and azacarbazoles. *International Journal of Scientific Res.*, 2015,4(6), 56-57.
 17. Neelam K. Yadav, D. Kishore, **Bhawani Singh**. Synthesis of pyrimidine derivatives of carbazolo and azacarbazolo fused quinoxalines. *International Journal of Science and Research*, 2015, 4(5), 1181-1184.
 18. Iram Khan & **Bhawani Singh**. Aryl substituted thiazolyl 4-thiazolidinopyrazoles and isoxazoles: Novel anti-microbial and anti-inflammatory agents. *International Journal of Scientific Research*, 2015, 4(5), 3-5.
 19. Iram Khan, Anupama and **Bhawani Singh**. The role of pyrazole and its derivatives in heterocyclic chemistry. *International Journal of Chemical and Pharmaceutical Sciences*, 2015, 6(1), 1-7.
 20. Khan Iram Anupama and **Singh Bhawani**. The Synthesis and Spectral Characteristics of Novel 7-(4-substituted-phenyl)-2-(4-phenyl-thiazol-2-ylimino)-2,3-dihydro-thiazolo[4,5-d]pyrimidine-5-thiols. *Research Journal of Chemical Sciences*, 2015, 5(3), 23-26.
 21. Aruna Sharma, Dharma Kishore, and **Bhawani Singh**. Environmental and anthropogenic carcinogens and their carcinogenic effects on humans. *Journal of Biomedical and Pharmaceutical Research*, 2015, 4(2), 01-13.
 22. Sheetal Makwana, Madhavi Patel, **Bhawani Singh**, Jatin Upadhyay and Anamik Shah. Development and validation of a stability indicating RP-UPLC method for the determination of Paracetamol and Ibuprofen in tablet. *Journal of Chemical and Pharmaceutical Research*, 2015, 7(4), 1308-1315.
 23. Madhavi Patel, Hetal Jebaliya, Batuk Dabhi, Yashwantsinh Jadeja, Nidhi Jani, Deepali Desai, Nirag Mavani, **Bhawani Singh Yadav** and Anamik Shah. Chromatography method transfers from HPLC to a new generation instrument UPLC and studies on force degradation behavior of deflazacort. *Der Pharmacia Lettre*, 2015, 7(2), 142-149.
 24. Swapnil G. Yerande, Kiran M. Newase, **Bhawani Singh**, André Boltjes, Alexander Dömling. Application of cyclic ketones in MCR: Ugi/amide coupling based synthesis of fused tetrazolo[1,5-a][1,4]benzodiazepines. *Tetrahedron Letters*, 2014, 55(21), 3263-3266.
 25. Ruchi Tyagi, Navjeet Kaur, **Bhawani Singh** and D. Kishore. A novel synthetic protocol for the heteroannulation of oxocarbazole and oxoazacarbazole derivatives through corresponding oxoketene dithioacetals. *Journal of Heterocyclic Chemistry*, 2014, 51(1), 18-23.
 26. Ruchi Tyagi, **Bhawani Singh** and D. Kishore. A noteworthy mechanistic precedence in the exclusive formation of one regioisomer in the Beckmann rearrangement of ketoximes of 4-piperidones annulated to pyrazolo-indole nucleus by organocatalyst derived from TCT and DMF. *Syn. Commun.* 2013, 43(1), 16-25.
 27. Peeyush Jain, Nishant Paliwal, Naveen Dubey, Sandeep Sharma and **Bhawani Singh**. Liquid chromatography tandem mass spectrometry method for quantification of Bupropion and hydroxy Bupropion in Human Plasma and its application to Bioequivalence Study. *International J. Drug Dev. Res.* 2012, 4 (2), 381-392.
 28. Ruchi Tyagi, **Bhawani Singh** & D. Kishore. Synthesis of novel precursors for Pfitzinger reaction: A facile one pot strategy to the synthesis of pyrazolo oxocarbazoles and pyrazolo oxoazacarbazoles precursors and their conversion to corresponding quinoline carboxylic acid derivatives. *J. Chem. Sci.* **2012**, 124(2), 431-435.
 29. Pramila Sharma, Bharti Vashishtha, Ruchi Tyagi, Vidushi Srivastava, Monika Shorey, **Bhawani Singh** and D. Kishore. Application of microwave induced delepine reaction to the facile one pot synthesis of 7-substituted 1,3-dihydro-2H-[1,4]benzodiazepine-2-one-5-methyl carboxylates from the corresponding 1-chloroacetyl isatins. *International J. Chem. Sci.* 2010, 8(1), 41-51.
 30. **Bhawani Singh**, A. Maheshwari, G. Dak, K. Sharma & G. L. Talesara. Studies of antimicrobial activities of some 4-thiazolidinone fused pyrimidines, [1,5]-benzodiazepines and their oxygen substituted hydroxylamine derivatives. *Indian J. Pharm. Sci.* 2010, 72(5), 607-612.
 31. Arti Jhanwar, Ruchi Tyagi, Bharti Vashishtha, Vidushi Srivastava, **Bhawani Singh** and D. Kishore. Application of Japp-Klingemann reaction in the synthesis of azacarbazole derivatives: Synthesis of 1,8-disubstituted-2,3-dihydro-1H-pyrindo[3,2-b]indol-4-(5H)-ones from aryl amines. *International J. Chem. Sci.* 2009, 7(4), 2222-2226.
 32. **Bhawani Singh**, Lalit K Baregama, Ranjana Sharma, Maqbool Ahmed & G. L. Talesara. Synthesis of alkoxyphthalimide derivatives of p-bis-(2-hydroxy-4-aryl-6-iminothiazolidino[4,5-b]pyrimidin-N²-

- yl)biphenyls. *J. Indian Chem. Soc.* 2005, 82(4), 337-341.
33. **Bhawani Singh**, Lalit K Baregama, Maqbool Ahmed, Neha Dixit & G. L. Talesara. Synthesis of 3*H*,9*H*,10*H*,10*aH*-10-aryl-2-aryliminothiazolidino[4,5-*b*][1,5]benzodiazepines and their alkoxyphthalimide derivatives. *Indian J. Chem.* 2005, 44B(6), 1243-1247.
 34. **Bhawani Singh**, Deepika Mehta, Lalit K Baregama & G L Talesara. Synthesis and biological evaluation of 7-*N*-(*n*-alkoxyphthalimido)-2-hydroxy-4-aryl-6-aryliminothiazolidino[2,3-*b*]pyrimidines and related compounds. *Indian J. Chem.* 2004, 43B(6), 1306-1313.
 35. Maqbool Ahmed, **Bhawani Singh**, Ranjana Sharma & G. L. Talesara. Synthesis of 1-*N*-(alkoxyphthalimido)-3,5-diaryl-2-pyrazolines. *Indian J. Heterocyclic Chem.* 2004, 14, 23-26.
 36. Lalit K. Baregama, Ranjana Sharma, **Bhawani Singh**, Shilpi Jain & G. L Talesara. Novel synthesis of oxygen substituted hydroxylamine derivatives of heterocyclic comp. *International J. Chem. Sci.* 2003, 1(1), 25-30.
 37. Lalit K. Baregama, **Bhawani Singh** & G L Talesara. Synthesis of 3-alkoxy-(substituted aryl) biguanidino-4-methyl-2, 3-dihydro-1*H*-[1,5]benzodiazepine-2-one and related compounds. *Heterocyclic Commun.* 2002, 8(6), 607-612.
 38. Lalit K. Baregama, **Bhawani Singh**, Tahira Banu & G L Talesara. Synthesis of some benzotriazole derivatives as antibacterial and antifungal agents. *Indian J. Heterocyclic Chem.* 2002, 12, 203-206.
- (b) **Research Papers published in as Book Chapter:**
39. **Bhawani Singh**, Bharti Vashishtha and D. Kishore. Synthesis of five-, six- and seven-membered hetero ring annulated imidazo[4,5-*b*]carbazoles and azacarbazoles of medicinal interest. ***Chemistry for Sustainable Development***. 2012, pp.453-472, DOI: 10.1007/978-90-481-8650-1_30. Edited by Gupta Bhowon, M.; Jhaumeer-Laulloo, S.; Li Kam Wah, H.; Ramasami, P. Published by Springer. 2012, XVII, 486 pages.

Paper Presented in Conferences /Symposia / Workshops:

1. Paper entitled "**Bhawani Singh**, Taruna Yadav and D. Kishore. Synthesis of enolic ethers, chalcones, oxoketenedithio acetals and dimethyl aminomethylene ketones of corresponding carbazole and azacarbazole frameworks as versatile intermediates to synthesize heterocycles" presented in 2015 GITS-MTMI International Conference on Innovation in Science, Technology, Management & Well being held during December 27-29, 2015 at Geetanjali Institute of Technical Studies, Udaipur (Rajasthan).
2. Paper entitled "Taruna Yadav, D. Kishore and **Bhawani Singh**. Synthesis of Oxoketene dithioacetals and dimethylaminomethylene ketones of corresponding carbazole and azacarbazole frameworks as versatile intermediates to synthesize heterocycles" presented in National School on Quantum Mechanics held during December 21-24, 2015 at Department of Pure & Applied Physics, University of Kota, Kota (Rajasthan).
3. Paper entitled "Aruna Sharma & Bhawani Singh. Synthesis of some 1,5-benzodiazepines and their derivatives using eco-friendly methods" presented in the national seminar on Recent Advancements in the Protection of Environment and its Management Issues (NSRAPEM-2015) held during February 27-28, 2015 at Maharishi Arvind College of Engineering & Technology, Kota (Rajasthan).
4. Paper entitled "**Bhawani Singh**, Bharti Vashishtha, Ruchi Tyagi & D. Kishore. Synthesis of indazolo / imidazolo-carbazoles and azacarbazoles" presented in International conference on emerging trends & development in Science, Management & Technology held during March 11-12, 2013 at Raj Kumar Goel Institute of Technology, NOIDA (Uttar Pradesh).
5. Paper (OP-115) entitled "**Bhawani Singh**, Bharti Vashishtha, Neelam Yadav, Taruna Yadav, Ruchi Tyagi & D. Kishore. Synthesis of hetero ring condensed some carbazoles & azacarbazoles" presented in the 19th International Conference of Indian Society of Chemists and Biologists (ISCB-2013) held during March, 02-05, 2013 at Department of Chemistry, Mohan Lal Sukhadia University, Udaipur (Rajasthan).
6. Paper (PP-15) entitled "**Bhawani Singh**, Bharti Vashishtha, Neelam Yadav, Taruna Yadav, Ruchi Tyagi & D. Kishore. Hetero ring condensed some carbazoles & azacarbazoles as medicinally potent compounds" presented in the CTDDR-2013 5th International symposium on drug development for Orphan/neglected diseases held during February 26-28, 2013 at Central Drug Research Institute Lucknow (Uttar Pradesh).
7. Paper (P-66) entitled "**Bhawani Singh**, Patel Pradipkumar Chandubhai, & D. Kishore. "Eco-friendly synthesis and evaluation of biological activity of some novel indole derivatives using deoxybenzoin as intermediates" presented in the International workshop on chemistry for a sustainable future held during December 10-12, 2012 at Chokhi Dhani ethnic village jointly organized by the Department of Chemistry, University of Rajasthan, Jaipur; Malviya National Institute of Technology Jaipur and Green Chemistry Network Centre, University of Delhi, Delhi.
8. Paper (PP-40) entitled "**Bhawani Singh**, Patel Pradipkumar Chandubhai & D. Kishore. Synthesis of Medicinally Potent Some Novel Indole Derivatives Using Dexoybenzoin as Intermediates" presented in the National Conference on the Global Challenges: New frontiers in Chemical Sciences held during September 22-23, 2012 at the Department of Chemistry, Kurukshetra University,

- Kurukshetra (Haryana).
9. Paper entitled "Iram Khan, Nidhi Jain & **Bhawani Singh**. 4-Thiazolidinones: Active pharmacophores for synthesis of medicinal potent heterocyclic compounds" presented in the UGC sponsored National Conference on Current Status and Opportunities in Medicinal plants of Thar desert held during December 17-18, 2011 at the Mahila P. G. Mahavidyalaya, Jodhpur (Rajasthan).
 10. Paper (OL-19) entitled "Patel Pradipkumar Chandubhai, **Bhawani Singh** & D. Kishore. "Synthesis and characterization some novel indole derivatives using suzuki coupling reaction" presented in the 3rd International Conference on Heterocyclic Chemistry held on December 10-13, 2011 at Hotel Clark Amer organized by the Department of Chemistry, University of Rajasthan, Jaipur, Rajasthan.
 11. Paper (OP-16) entitled "**Singh, Bhawani**; Patel, Pradipkumar C; Kishore, D. Synthesis of some novel isoflavones and their derivatives from deoxybenzoin intermediates" presented in the International Conference on Green Chemistry held on December 7-9, 2011 at Hotel Bela Casa organized by the Department of Chemistry, Central University of Rajasthan, Kishangarh (Ajmer), Rajasthan.
 12. Paper (OP-10) entitled "Patel Pradipkumar Chandubhai, **Bhawani Singh** & D. Kishore. Some novel triptan analogues: synthesis and characterization some novel indoles using suzuki coupling reaction under microwave condition" presented in the national conference "Green Chemistry- Safer Chemistry" held on Sept. 23-24, 2011 at Department of Chemistry, R. R. (PG) College, Alwar (Rajasthan).
 13. Paper (PP-15) entitled "Patel Pradipkumar Chandubhai, **Bhawani Singh** and D. Kishore. Synthesis of some novel isoflavones as potent anxiolytic agents" presented at national symposium on organic synthesis held on February 18-19, 2011 at Department of Chemistry, International College for Girls, Jaipur (Rajasthan).
 14. Paper entitled "**Bhawani Singh**, Patel Pradipkumar Chandubhai and D. Kishore. Synthesis of some novel isoflavones and their derivatives as medicinally potent agents" presented in the 15th ISCB international conference: Bridging gaps in discovery and development: chemical and biological sciences for affordable health, wellness and sustainability held on February 04-07, 2011 at Department of Chemistry, Saurashtra University, Rajkot (Gujrat).
 15. Paper (P-121) entitled "**Bhawani Singh**, Arti Jhanwar, Ruchi Tyagi, Bharti Vashishtha, Vidushi Srivastava and D. Kishore. Application of Japp-Klingemann Reaction in the synthesis of Carbazoles and Azacarbazole derivatives: Synthesis of 1,8-disubstituted-2,3-dihydro-1*H*-pyrido[3,2-*b*]indol-4-(5*H*)-ones from aryl amines" at 13th International conference of Indian council of Chemists and Biologists (ISCB) held on February 26 to March 01, 2009 at Department of Chemistry, University of Delhi, Delhi.
 16. Paper (ORG-AP-17) entitled "**Bhawani Singh**. Synthesis of 2-phenyliminothiazolidin- Δ^2 -2-hydroxy-6-phenylpyrimidine derivatives of alkoxyphthalimide" at 38th National Conference of Indian Chemical Society held on December 26-29, 2001 at Department of Chemistry, Jai Narayan Vyas University, Jodhpur (Rajasthan).
 17. Paper (PP-72) entitled "**Bhawani Singh**. Synthesis of pharmacologically important 2-[(ω -(4-morpholinyl) alkoxy]-1*H*-isoindole-1,3-(2*H*)-diones" presented at 37th National Conference of Indian Chemical Society held on November 28-30, 2000 at Department of Chemistry, Gurukul Kangari University, Harwar (Uttar Pradesh).

Conferences / Symposia / Seminars / Workshops Attended:

1. Attended a one day workshop on "Intellectual Property Rights" organized by the University Intellectual Property Rights Cell, University of Kota, Kota on 20-11-2013.
2. Attended a workshop "Advanced Materials Characterization" held during October 3-7, 2012 at Banasthali Vidyapith, Rajasthan sponsored by the Department of science and Technology, New Delhi under CURIE programme.
3. Attended a seminar on "Intellectual Property and Innovation Management in Knowledge Era" organized by National Research Development Corporation (NRDC), New Delhi held on 28th January 2012 at Banasthali Vidyapith, Rajasthan.
4. Attended a workshop on "Computer Aided Drug Design and Discovery (CAD3)-2011" held on April 15-17, 2011 at NIPER Hyderabad, Andhra Pradesh.
5. Attended a "Jubilee conference on Women's Education: Vision and mission of women's universities in a global society" held on November 11-13, 2008 at Banasthali University, Banasthali (Rajasthan).
6. Attended a conference on 56th Indian Pharmaceutical Congress held on Dec 3 to 5, 2004 at Kolkata.
7. Attended a UGC sponsored symposium on "Recent Trends in Chemical Sciences", December 27-30, 2000. Mohan Lal Sukhadia University, Udaipur (Rajasthan).

Conferences / Symposia / Other activities Organized:

1. Organized the 69th Annual conference of Indian Society of Agricultural Statistics (ISAS) on Statistics and Informatics in Agricultural Research during December 14-16, 2016 at University of Kota, Kota (Rajasthan).
2. Organized a 93rd Orientation Programme for College and University Teachers at University of Kota,

Kota under the MoU with UGC-HRDC, Jai Narain Vyas University, Jodhpur from February 15 to March 12, 2016

3. Organized the 6th National Academic Workshop on "Atmospheric Chemistry" during December 19-20, 2014 at the Department of Pure & Applied Chemistry, University of Kota, Kota (Rajasthan).
4. Organized a 5th National Academic Workshop on "Organic Reaction Mechanisms & Analytical Techniques used in Chemical Sciences" during October 21-25, 2013 at the Department of Pure & Applied Chemistry, University of Kota, Kota (Rajasthan).
5. Organized a national conference on "Meeting on the challenges of water and energy" under the ISCA Banasthali Chapter during August 24-25, 2012.
6. A Department of Science and Technology, Government of India sponsored symposium on "Advanced Functional Materials: Opportunities and Challenges in New Global Era" organized on October 4-5, 2010 at Department of Chemistry, Banasthali University, Banasthali (Rajasthan).
7. Organized a national exhibition: THE CHEM UNIVERSE at the occasion of science day (28-02-2011) for commemorates International Year of Chemistry-2011 on the "Achievements of Chemistry and its Contribution to Mankind" in the Department of Chemistry, Banasthali University, Banasthali (Rajasthan).
8. A Department of Science and Technology, Government of India sponsored National workshop on "NMR: From Elementary to Advanced Applications" organized on December 3-4, 2011 at Department of Chemistry, Banasthali University, Banasthali (Rajasthan)

Invited Lecture Delivered:

1. Invited lecture delivered in the UGC-HRDC, MDS University, Ajmer sponsored short-term programme on "Separation Techniques and Instrumental Methods of Analysis" on the topic "Nuclear Magnetic Resonance Spectroscopy" on February 01-02, 2017 organized during January 30-February 04, 2017 by the University of Kota, Kota (Rajasthan).
2. Invited lecture delivered in the "Course Work of Ph.D. programme" on the topic "Writing for Publication and Errors in Research" on May 10, 2016 at University of Kota, Kota (Rajasthan).
3. Invited lecture delivered in the "Entrepreneurship Development Programme on the Establishment of Small Scale Industries" on May 02, 2016 during EDP at the Department of Commerce & Management, University of Kota, Kota (Rajasthan).
4. Lecture delivered in the "National Conference on Green Chemistry" organized by the Department of Chemistry, SRM University, NCR Campus, Modi Nagar (Ghaziabad), Uttar Pradesh held during September 18-19, 2012.
5. Lecture delivered on "Development of Science for Development of the Nation" during INSPIRE Science Camp from March 25-29, 2012 at the Nathdwara Institute of Engineering and Technology, Nathdwara (Rajsamand), Rajasthan.
6. Invited lecture delivered in the "Entrepreneurship Development Programme on the Establishment of Small Scale Industries" on March 04, 2014 during EDP at the Department of Commerce & Management, University of Kota, Kota (Rajasthan).
7. Invited lecture delivered in the "Course Work of Ph.D. programme in the Computer Science" on the topic "Thesis Writing: Planning of Thesis, Writing of Thesis, Thesis Structure, The Oral Examination and Viva-voce" on August 05, 2013 at the Department of Computer Science & Informatics, University of Kota, Kota (Rajasthan).

Orientation / Refresher Courses / Training Programmes Attended:

1. A General Orientation Course (GOC-71) attended at Academic Staff College, Guru Nanak Dev University, Amritsar (Punjab) from June 12 to July 09, 2007.
2. Summer School on NMR: From Molecules to Human Behaviour. May 27-June 1, 2007. Organized by Indian Institute of Science, Bangalore and Sikkim Manipal Institute of Medical Sciences, Gangtok, Sikkim and Sponsored by the Department of Science & Technology, Government of India, New Delhi.

Distinctions and Awards:

1. **Fast Track Young Scientist Award-2012** by DST, Govt. of India, New Delhi.
2. **Best Paper Presentation Award** in National Symposium on Organic Synthesis at ICG, Jaipur in 2011.

Membership of Academic / Professional Bodies:

1. Life Member : Indian Magnetic Resonance Society, Bangalore.
2. Life Member (ID:1860): Vigyan Bharati (VIBHA), Chittor Prant, Rajasthan