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Dr. **Bhupender SINGH**

Specialized in Organic Chemistry with advanced medicinal and applied materials sciences research at renowned institutes in India and USA.



Education

- 2000-2006** **Doctor of Philosophy (Ph.D.) in Biomedical Science**
UNIVERSITY OF DELHI, Delhi, INDIA.
Thesis entitled “*Synthesis of bifunctional chelating agents to label monoclonal antibodies for radioimmunodiagnosis of cancer*”
(Supervisor: Dr. A.K. Mishra, Deputy Director, INMAS)
At ‘Institute of Nuclear Medicine and Allied Sciences (INMAS), DRDO, Timarpur, Delhi’ and Dr. B.R. Ambedkar Center for Biomedical Research, **University of Delhi**, Delhi
- 1995-1997** **Master of Science (M.Sc.) Chemistry**
M. D. UNIVERSITY, Rohtak (Haryana), INDIA.
First Division specialization in **Organic Chemistry**
- 1992-1995** Bachelor of Science (B.Sc.) (Biology group)
University College, M.D. University, Rohtak (Haryana), INDIA.

Academic Appointments

- ◆ **August 2014-till now**
Assistant Professor
Department of Chemistry, Aditi Mahavidyalaya,
UNIVERSITY OF DELHI, Bawana, Delhi. **INDIA.**
- ◆ **July 2012-April 2013**
Assistant Professor (Teaching Associate)
Department of Chemistry,
DCR UNIVERSITY OF SCIENCE AND TECHNOLOGY, Murthal, Haryana. **INDIA.**
- ◆ **Jan 2009-May 2012**
PostDoctoral Fellow (PDF)
Department of Biomedical and Pharmaceutical Sciences,
UNIVERSITY OF RHODE ISLAND, Kingston, Rhode Island, **USA.**
- ◆ **Sept 2006 - Jan 2009**
PostDoctoral Fellow (PDF)
Department of Organic Chemistry,
INDIAN INSTITUTE OF SCIENCE, Bangalore. **INDIA.**
- ◆ **March 2006-Sept 2006**
Lecturer
Institute of Biomedical Sciences,
BUNDELKHAND UNIVERSITY, Jhansi, Uttar Pradesh, **INDIA.**

National Examinations

- ❖ National Eligibility Test (**NET-JRF**) – Chemical Sciences conducted by **CSIR-UGC** combine (Council of Scientific and Industrial Research and University Grant Commission, New Delhi) – June 1999, Dec. 1999
- ❖ National Eligibility Test (**ARS-NET**) – Organic Chemistry conducted by **ASRB** (Agricultural Scientists Recruitment Board, New Delhi) – 1998, 2001.
- ❖ **GATE -99** – Chemistry conducted by IITs – 99

Awards

- ✓ '**DISTINGUISHED INVESTIGATOR AWARD**' for academic-industry research excellence by University of Loyola, USA and Hansraj College, University of Delhi, India **2019**
- ✓ '**YOUNG SCIENTIST AWARD**' by Association of Pharmacy Professionals (APP), India **2014**.
- ✓ NSS Merit Certificate for dedication and excellence in services by National Service Scheme (NSS) India, **1995**.

Teaching Experience

August 2014-till now Assistant Professor (Organic Chemistry) Department of Chemistry, and Environmental Studies, Aditi Mahavidyalaya, University of Delhi, Bawana, Delhi. India.

Subject Discussed:

Environmental Science (72182801)	Honors' and pass Graduate Courses
Chemistry (Organic and Inorganic) I and II O2.5, O3.5	Graduate (B. El. Ed.) Classes
Organic chemistry Laboratory experimentation	Graduate (B. El. Ed.) students
Environmental Studies (ES2014)	Graduate (Geo(H), B.Com. (H), B.S.W. (H)), B.A. Classes
Chemistry section (Physical Science)	B.Sc. (H) Home Science

July 2012-April 2013 Assistant Professor (Teaching Associate - Organic Chemistry) Department of Chemistry, DCR University of Science and Technology, Murthal, Haryana. India.

Subject Discussed:

Organic Chemistry	Graduate (B. Tech.)
Organic chemistry Laboratory experimentation	Graduate (B. Tech.) students
Unit Processes in Organic Chemistry	Graduate (B. Tech.)
Chemistry Practical	Graduate (B. Tech. 1 st Year)
Chromatography	Postgraduate (M.Sc. students)
Organic Chemistry Reaction Mechanisms	Postgraduate (M.Sc.)

March 2006-September 2006 Lecturer (Organic Chemistry), Institute of Biomedical Sciences, Bundelkhand University, Jhansi (UP). India.

Subject Discussed:

Organic Chemistry, Biomedical Organic Chemistry, Bioinstrumentation Magnetic Resonance Imaging	Postgraduate (PG) (M.Sc.)students
Basic Chemistry and advanced organic chemistry	Graduate (B.Sc.) students
Organic chemistry Laboratory experimentation and instrumental techniques	PG (M.Sc.) students

Fellowship Awarded

2006-2009: Postdoctoral Fellowship in NanoScience and NanoTechnology by Department of Science and Technology (DST), New Delhi. INDIA (through Jawaharlal Nehru Center for Advanced Scientific Research (JNCASR), Bangalore).

2002-2005 Senior Research Fellowship by the Council of Scientific and Industrial Research (CSIR), New Delhi. INDIA.

2000-2002 Junior Research Fellowship by the Council of Scientific and Industrial Research (CSIR), New Delhi. INDIA.

Editorial Positions

- ▶ **Founder and Editor-in-Chief**, Chemical Biology Letters, (An international **SCOPUS** and CAS indexed journal) Published by ScienceIN Publishing, New Delhi.
- ▶ **Commissioning Editor**, Journal of Materials NanoScience (Nanoscience and Nanotechnology journal supported by international research fraternity) Published by ScienceIN Publishing, New Delhi
- ▶ **Editorial Advisory Board Member**, Journal of Biomedical and Therapeutic Sciences, a journal covering fundamental to applied research in Biomedical and Medical Sciences, published by Integrated Science Publishing in association with Bundelkhand University, Jhansi.

Professional Association

- ◆ Life Member, Society of Biological Chemists, India.
- ◆ Life Member, Chemical Research Society of India, India.
- ◆ Life Member, URI College of Pharmacy Professional Research Society, USA.
- ◆ Member, American Chemical Society, USA (2010-11).
- ◆ Life Member, Association of Pharmacy Professionals, India.

Publications

42 Scientific research papers published in international journals,
2 Book (single author) published,
1 Edited Reference Book, **1** Conference Proceedings Book (Edited)
5 Abstracts published in international and national journals.
1 Conference Book article, **1** Conference Proceedings Summary Article

A. Books (published)

Alcoholism: Causes, Symptoms, Effects and Treatment, Manakin Press, New Delhi. **2018**
ISBN: 978-93-8667-748-8 (Editors: B.S. Chhikara and V.K. Shanwal).

Integrated Environmental Studies ScienceIn Press, New Delhi. **2015**.
ISBN: 978-93-5196-818-4

Organic Chemistry for Chemical Engineering Sciences, Integrated Science Publications, New Delhi. **2013**.
ISBN: 978-93-5126-559-7

Proceedings of National Conference RACSGSE-2017, Aditi Mahavidyalaya, Delhi University, Delhi. **2018**.
ISBN: 978-93-5311-552-4 (Edited Conf Proceedings)

B. Journal papers (published)

- 42 Theoretical and Experimental Studies of Oseltamivir-triazole Based Thermoresponsive Organogel. Neha Sharma Sumit Single, Poonam Bhargava, Lidong Wu, Vladimir Potemkin, **Bhupender S. Chhikara**, Brijesh Rathi, *RSC Advances*, **2019**, (accepted).
- 41 Nanochemistry and Nanocatalysis Science: Research advances and future perspective. **Bhupender S. Chhikara**, Rajender S. Varma. *Journal of Materials Nanoscience*, **2019**, 6(1), 1-6. urn:nbn:sciencein.jmns.2019v6.88
- 40 Multistage inhibitors of the malaria parasite: Emerging hope for chemoprotection and malaria eradication. Poonam, Yash Gupta, Nimesh Gupta, Snigdha Singh, Lidong Wu, **Bhupender S. Chhikara**, Manmeet Rawat, Brijesh Rathi. *Med. Res. Rev.*, **2018**, 38(5), 1511-1535. DOI: 10.1002/med.21486.
- 39 Current trends in nanomedicine and nanobiotechnology research. B.S. Chhikara. *J. Mat. NanoScience. (Nanomedicine Sec.)*, **2017**, 4(1), 19-24.
- 38 Synthesis and anti-HIV activities of unsymmetrical long chain dicarboxylate esters of dinucleosides reverse transcriptase inhibitors. **Bhupender S. Chhikara**, Hitesh K. Agarwal, Gustavo F. Doncel, Keykavous Parang. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 1934–1937.
- 37 Prospects of Applied Nanomedicine. B.S. Chhikara, *J. Mat. NanoScience. (Nanomedicine Sec.)*, **2016**, 3(1), 20-21.
- 36 Therapeutic analysis of *Terminalia arjuna* plant extracts in combinations with different metal nanoparticles. Jyoti Singh, Santosh Kumar, Brijesh Rathi, Kalpana Bhrara, **Bhupender S. Chhikara*** *Journal of Materials NanoScience*, **2015**, 2(1), 1-7.
- 35 Good Governance: Role of science, technology and Innovations. **Bhupender S. Chhikara**. *Integrated Research Advances*, **2015**, 2(1), 22-30.
- 34 Organometallic assemblies: π -electron delocalization, μ -bridging spacers, flexibility, lipophilic nature, bio-accessibility, bioavailability, intracellular trafficking pathways and antimicrobial assimilation. Rajiv Kumar, **Bhupender S. Chhikara**. *Journal of Organometallic Chemistry*, **2015**, 776, 64-76. doi:10.1016/j.jorgchem.2014.11.001.
- 33 Prospectivity of bifunctional chelating agents in chemical, biological and biomedical applications. **Bhupender S. Chhikara***, Sumit Kumar, Nidhi Jain, Anil Kumar and Rajiv Kumar. *Chemical Biology Letters*, **2014**, 1(2), 77-103.
- 32 Carbocyclodipeptides as modified nucleosides: Synthesis and anti-HIV activity. **Bhupender S. Chhikara**, M. Sudershan Rao, V. Kameshwara Rao, A. Kumar, Karen W. Buckheit, Robert W. Buckheit Jr., KeykavousParang. *Canadian Journal of Chemistry*, **2014**, 92(12), 1145-49. DOI: 10.1139/cjc-2014-0356.
- 31 Comparative global epidemiology of HIV infections and status of current progress in treatment. Jyoti Singh and **Bhupender S. Chhikara.*** *Chemical Biology Letters*, **2014**, 1(1), 14-32.
- 30 Bismuth Triflate Catalyzed Condensation of Indoles with Acetone. Ganesh M. Shelke, V. Kameshwara Rao, Rakesh Tiwari, **Bhupender S Chhikara**, Keykavous Parang and Anil Kumar. *RSC Advances*, **2013**, 3, 22346-22352. DOI:10.1039/C3RA44693J.
- 29 Copper triflate-mediated synthesis of 1,3,5-triarylpyrazoles in [bmim][PF₆] ionic liquid and evaluation of their anticancer activities. V. Kameshwara Rao, R. Tiwari, **Bhupender S. Chhikara**, Nasrolahi S. Amir, Keykavous Parang and Anil Kumar. *RSC Advances*, **2013**, 3, 15396-15403. DOI: 10.1039/C3RA41830H.

- 28 Design and biological evaluation of Cell-penetrating Peptide-Doxorubicin conjugates as prodrugs. Amir Nasrolahi Shirazi, Rakesh K. Tiwari, **Bhupender S. Chhikara**, Dindyal Mandal and Keykavous Parang. *Molecular Pharmaceutics*, **2013**, 10 (2), 488-499. DOI:10.1021/mp3004034
- 27 Emtricitabine Prodrugs with Improved Anti-HIV Activity and Cellular Uptake. Hitesh K. Agarwal, **Bhupender S. Chhikara**, Sitaram Bhavaraju, Deendyal Mandal, Gustavo F. Doncel, Keykavous Parang. *Molecular Pharmaceutics*, **2013**, 10(2), 467-476. DOI: 10.1021/mp300361a.
- 26 A Greener Synthesis of 2-Aminochromenes in Ionic Liquid and Evaluation of Their Antiproliferative Activities. M. Sudershan Rao, **Bhupender S Chhikara**, Rakesh Tiwari, Amir Nasrolahi Shirazi, Keykavous Parang, and Anil Kumar. *Chemistry Biology Interface*, **2012**, 2, 6, 362-372.
- 25 N-Myristoylglutamic Acid Derivative of 3'-Fluoro-3'-Deoxythymidine as an Organogel. **Bhupender S. Chhikara** and Keykavous Parang, *Tetrahedron Letters*, **2012**, 53 (39), 5335-37. DOI: 10.1016/j.tetlet.2012.07.101.
- 24 Synthesis and Biological Evaluation of Fatty Acyl Ester Derivatives of (-)-2',3'-Dideoxy-3'-Thiacytidine. Hitesh K. Agarwal, **Bhupender S. Chhikara**, Michael J. Hanley, Guofeng Ye, Gustavo F. Doncel, KeykavousParang. *Journal of Medicinal Chemistry*, **2012**, 55 (10), 4861-4871. DOI: 10.1021/jm300492q .
- 23 Synthesis and Anti-HIV Activities of Glutamate and Peptide Conjugates of Various Reverse Transcriptase Inhibitors. Hitesh K. Agarwal, **Bhupender S. Chhikara**, Megrose Quiterio, Gustavo F. Doncel, Keykavous Parang. *Journal of Medicinal Chemistry*, **2012**, 55 (6) 2672-2687.
- 22 Loading of single-walled carbon nanotubes in cationic cholesterol suspensions significantly improves gene transfection efficiency in serum. Santosh K. Mishra, Parikshit Moitra, **Bhupender S. Chhikara**, Pataru Kondaiah and Santanu Bhattacharya. *Journal of Materials Chemistry*, **2012**, 22, 7985-7998. DOI:10.1039/C2JM15659H.
- 21 CNT loading into cationic cholesterol suspensions show improved DNA binding and serum stability and ability to internalize into cancer cells. **Bhupender S. Chhikara**, Santosh K Mishra and Santanu Bhattacharya, *Nanotechnology*, **2012**, 23(6),65101. DOI: 10.1088/0957-4484/23/6/065101.
 Highlight: *This article was recognized by NatureIndia as a research highlight on 17 February, 2012 entitled "Cholesterol wrapped gene carrier" Nature India, DOI: 10.1038/nindia.2012.22.*
 link: <http://www.nature.com/nindia/2012/120217/full/nindia.2012.22.html>.
- 20 Synthesis, Anticancer Activities, and Cellular Uptake Studies of Lipophilic Derivatives of Doxorubicin Succinate. **Bhupender S. Chhikara**, D. Mandal and K. Parang. *Journal of Medicinal Chemistry*, **2012**, 55(4), 1500-1510. DOI: 10.1021/jm201653u.
 Highlight: *A news highlight entitled "New Adenocarcinomas Study Findings Have Been Reported by Researchers at University of Rhode Island" appeared on this article in Adenocarcinomas (from NewsRx publisher, USA), March 28, 2012.*
- 19 Ionic liquid supported 1,5,7-triazabicyclo[4.4.0]dec-5-ene: An efficient and recyclable organocatalyst for Michael addition to α,β -unsaturated ketones. Manoj K Muthyala, **Bhupender S Chhikara**, K. Parang and Anil Kumar. *Canadian Journal of Chemistry*, **2012**, 90, 290-297.
- 18 Microwave-Assisted and Scandium Triflate Catalyzed Synthesis of Tetra-hydrobenzo[a]-xanthen-11-ones. M. Sudershan Rao, **Bhupender S. Chhikara**, R. Tiwari, A.N. Shirazi, KeykavousParang and Anil Kumar. *Monatshefte fur Chemie / Chemical Monthly*, **2012**, 143 (2), 263-268. DOI: 10.1007/s00706-011-0577-4.

Highlight: This article was abstracted as highlight in *Methods in Organic Synthesis*, a selective database published by Royal Society of Chemistry (RSC), London, UK,
Link:<http://pubs.rsc.org/en/content/database/mos2206073534>

- 17 Ionic Liquid Supported Synthesis of Sulfonamides and Carboxamides. Manoj Kumar Muthayala, **Bhupender S. Chhikara**, Keykavous Parang and Anil Kumar. *ACS Combinatorial Science*, **2012**, 14 (1), 60-65. DOI:10.1021/co200149m.
- 16 One pot regioselective synthesis of Tetrahydroindazolones and evaluation of their Anticancer and Src Kinase inhibitory activities. V. Kameshwara Rao, **Bhupender S. Chhikara**, Rakesh Tiwari, Amir Nasrolahi Shirazi, Keykavous Parang and Anil Kumar. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 410-414.
- 15 3-Substituted indoles: One-pot synthesis and evaluation of anticancer and Src kinase inhibitory activities. VK Rao, **Bhupender S. Chhikara**, AN Shirazi, R Tiwari, K Parang, Anil Kumar. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 3511-3514.
- 14 Fatty acyl amide derivatives of doxorubicin: synthesis and *in vitro* anti-cancer activity. **Bhupender S. Chhikara**, Nicole St Jeans, D. Mandal, A. Kumar and K. Parang. *European Journal of Medicinal Chemistry*, **2011**, 46, 2037-2042.
Highlight: A news highlight entitled "Reports Summarize Cancer Therapy Research from University of Rhode Island" appeared on this article in *Cancer Therapy* (from NewsRx publisher, USA), July 6, 2011.
- 13 Synthesis of 3-phenylpyrazolopyrimidine-1,2,3-triazole conjugates and evaluation of their Src Kinase inhibitory and Anticancer activities. A. Kumar, I. Ahmad, **Bhupender S. Chhikara**, R. Tiwari, D. Mandal, and K. Parang. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 5, 1342-1346.
- 12 Development in Cytarabine prodrugs and delivery systems for leukemia treatment. **Bhupender S. Chhikara** and K. Parang. *Expert Opinion in Drug Delivery*, **2010**, 7 (12), 1399-1414.
Highlight: A highlight entitled "Researchers from University of Rhode Island report recent findings in leukemia" appeared on this article in *Gene Therapy Weekly* (from NewsRx publisher, USA), December 30, 2010.
* This article was used as reference among citations for prodrug derivatives of cytarabine by the Wikipedia Encyclopedia for the Cytarabine drug article (<http://en.wikipedia.org/wiki/Cytarabine>)
- 11 Synthesis and evaluation of fatty acyl ester derivatives of cytarabine as anti-leukemia agents. **Bhupender S. Chhikara**, D. Mandal and K. Parang. *Eur. Journal of Medicinal Chemistry*, **2010**, 45, 4601-4608.
Highlight: A highlight entitled "Scientists at University of Rhode Island describe research in leukemia" appeared on this article in *Hematology Week* (from NewsRx publisher, USA), September 20, 2010.
- 10 Preparation and pharmacological evaluation of a new radiopharmaceutical, technetium-99m-5-fluorouracil, for tumor scintigraphy. Santosh Kumar, AK Mishra, **Bhupender S. Chhikara**, Krishna Chuttani, R.K. Sharma. *Hellenic Journal of Nuclear Medicine*. **2008**, 11(2), 91-95.
- 9 Synthesis and properties of novel nanocomposites made of single-walled carbon nanotubes and low molecular mass organogels and their thermo-responsive behavior triggered by near IR radiation. **Bhupender S. Chhikara**, A. Pal, A. Govindaraj, CNR Rao, Santanu Bhattacharya. *Journal of Materials Chemistry*, **2008**, 18, 22, 2593 – 2600.
- 8 Synthesis and evaluation of bifunctional chelating agents derived from Bis(2-aminophenylthio)alkane for radioimaging with ^{99m}Tc.

- Bhupender S. Chhikara**, Nitin Kumar, V.Tandon and A.K. Mishra. *Bioorganic and Medicinal Chemistry*, **2005**, 13, 4713-4720.
- 7 Oxidation of Alcohols with Hydrogen Peroxide Catalysed by a new Imidazolium Ion based Phosphotungstate complex in Ionic Liquid.
Bhupender S. Chhikara, R. Chandra and V.Tandon.
Journal of Catalysis, **2005**, 230, 436-439.
Highlight: *This article was abstracted as a highlight in Catalyst and Catalysed Reactions, a selective database published by Royal Society of Chemistry (RSC), London, UK, Link <http://pubs.rsc.org/en/content/database/ccr0506008674>*
- 6 A versatile method for the hydrogen peroxide oxidation of alcohols using PTC condition in t-butanol.
Bhupender S. Chhikara, R. Chandra and V.Tandon. *Synlett*, **2005**, 5, 872-874.
Highlight: *This article was abstracted as a highlight in Methods in Organic Synthesis, a selective database published by Royal Society of Chemistry (RSC), London, UK, Link <http://pubs.rsc.org/en/content/database/mos1507057439>*
- 5 1-Methyl-3-butylimidazolium decatungstate in Ionic Liquid: An efficient catalyst for the oxidation of alcohols.
Bhupender S. Chhikara, Sarita Tehlan and Anil Kumar. *Synlett*, **2005**, 63-66.
- 4 Impact of microwave radiations on macrocyclization reactions: solvent free synthesis of 1,4-benzothiazin-3-one derivatives on basic alumina.
Bhupender S. Chhikara, V.Tandon and A. K. Mishra. *Heterocyclic Communications*, **2004**, 10 (5), 441-446.
- 3 IBX in ionic liquid: Eco-friendly oxidation of 17 α -methylandrostan-3 β ,17 β -diol, an intermediate in the synthesis of anabolic Oxandrolone. **Bhupender S. Chhikara**, R. Chandra and V.Tandon. *Tetrahedron Letters*, **2004**, 45, 7585-7588.
Highlight: *This article was abstracted as a highlight in Methods in Organic Synthesis, a selective database published by Royal Society of Chemistry (RSC), London, UK, Link:<http://pubs.rsc.org/en/content/database/mos1502056444>*
- 2 Efficient oxidizing methods for the synthesis of Oxandrolone intermediates. Sandeep Ginotra, **Bhupender S. Chhikara**, Manish Singh, R. Chandra and V. Tandon. *Chemical and Pharmaceutical Bulletin*, **2004**, 52 (8), 989-991.
- 1 KF-Alumina immobilized in Ionic Liquids: A novel heterogeneous base for heterocyclization of Alkylsulfanyphenylamines into 1,4-Benzothiazine. **Bhupender S. Chhikara**, A. K. Mishra and V. Tandon. *Heterocycles*, **2004**, 63, 5, 1057-1065.
Highlight: *This article was abstracted as a highlight in Methods in Organic Synthesis, a selective database published by Royal Society of Chemistry (RSC), London, UK, Link: <http://pubs.rsc.org/en/content/database/mos1408054981> .*

Citations and Full paper links (Google Scholar): <http://scholar.google.co.in/citations?user=S8GMgt8AAAAJ&hl>

C. Conference Papers

1. Organic light Emitting Diode: Energy efficient material for sustainable green environment. Tanya Dhawan, Aarti, Astha Kotnala, BS Chhikara. *Proceedings of National Conference RACSGSE-SBAP 2017*, pg 45-56.
2. Summary report of National Conference RACSGSE-SBAP 2017. Bhupender Singh, *Proceedings of National Conference RACSGSE-SBAP 2017*, pg 1-6.

D. Abstracts (published in journals)

- 1 Novel route for the preparation of DTPA-K-CAP-Biotin, ^{99m}Tc labeling and in vitro characterization of Avidin-Biotin conjugate. A.K. Mishra, Seema Beniwal, **Bhupender Singh**, S. Prasad, P. Mishra, K. Chuttani, R.K. Sharma and T.L. Mathew. *Ind. J. Nucl. Med.*, **2000**, 15, 121.
- 2 Synthesis, Characterization and in vivo skeletal localization of a new ^{99m}Tc -based Bifunctional multidentate phosphonate chelate. A.K. Mishra, Puja Panwar, **Bhupender S. Chhikara**, K. Chutani, Nitin Kumar, Ramesh Chandra and R.K. Sharma. *Ind. J. Nucl. Med.*, **2004**, 19, 128.
- 3 Synthesis and anticancer activity of Fatty acid derivatives of cytarabine. **Bhupender S. Chhikara**, D. Mandal, and K. Parang. *Chemical Abstracts*, **2010**, ACS, USA.
- 4 Synthesis and evaluation of cell-penetrating peptide-doxorubicin conjugates. Amir Shirazi, **Bhupender S. Chhikara** and Keykavous Parang. *Chemical Abstracts*, **2012**, ACS, USA.
- 5 Nanoconjugates of natural products: pharmacological and therapeutic potential in cancer therapy. **Bhupender S. Chhikara**, Keykavous Parang. *J. Biomed. Ther. Sci.*, **2014**, 1(1), 82.

Conferences/Workshops

Conference Organized

National conference on 'Recent Advances in Chemical Sciences towards Green & Sustainable Environment - Swachh Bharat Abhiyaan Perspective' 10-11th October 2017 at Aditi Mahavidyalaya, University of Delhi, Delhi.
- **Organizing Secretary**

Session Chaired

- ◆ Served as **Jury** for DST-INSPIRE program for project evaluations at 6th National Level Exhibition & Project Competition in India International Science Festival held at National Physical Laboratory, Delhi. 10-11 December **2016**
- ◆ Served as **Jury** for DST-INSPIRE program for project evaluations at 5th National Level Exhibition & Project Competition in India International Science Festival held at Indian Institute of Technology Delhi. (Jury on 6-7 Dec) 4-8 December **2015**.
- ◆ Served **Vice-Chairman** of Scientific Committee for APP-National Annual Symposium on Novel Drug Discovery and Development: Current Status and Challenges Ahead. At Dharmsinh Desai University, Nadiad, Gujarat. 18th January **2014**.
- ◆ Chaired and Served as **Scientific Judge** for technical session in a national conference on 'New horizons in pharmaceutical education and research' at Akkalkuva, Nandurbar, Maharashtra, India. March **2014**.
- ◆ **Chaired** a session and coordinated training session in a workshop on 'Recent analytical developments in applied sciences' organized by Central Instrumentation Laboratory, DCR University of Science and Technology, Murthal, Haryana, 13-14 August, **2012**.

Faculty Development Program

Two weeks faculty development program on applied chemistry and polymer chemistry. Sponsored by TIFAC-II, WHO. Organized by Department of Applied and Polymer Chemistry, Delhi Technological University, ShahbadDaulatpur, Delhi 15-Dec-2014 to 26-Dec-**2014**.

Presentations

34 presentations in National and international conferences

Invited Talks

1. Multi-Nucleoside reverse transcriptase designing to combat resistance towards improved potent anti-HIV therapeutics. Bhupender S. Chhikara, In 'National Conference on Organic chemistry in sustainable development: Recent advances and future challenges' Organized by Department of Chemistry, Birla Institute of Technology and Science, Pilani, Rajasthan. Aug 29-30, **2016**.
2. Development of Novel conjugate system for delivery of Doxorubicin in cancer therapy. in National symposium on 'New Horizons in Pharmaceutical Education and Research' at Akkalkuwa, Nandurbar, Maharashtra, March 1, **2014**.
3. Prodrugs and delivery system efficacies in cancer therapy: a case evaluation with Doxorubicin derivatives in leukemia, breast and ovarian cancer treatment. In International Conference on Inter-disciplinary Research in Engineering, Management, Pharmacy and Science; organized by Sagar Institute of Research and Technology at Sagar Group of Institutions, SIRT Campus, Ayodhya By-pass Road, Bhopal, MP India. February 20-23, **2014**.
4. Prodrugs for Cancer therapy. Guest lecture in Globus College of Pharmacy, Bhopal, MP, India. On 21st February, **2014**.
5. Adriamycin Prodrugs and delivery system efficacy in cancer therapy. In National Seminar on the theme 'Strategic Development & Key Issues in Cancer Research' on the occasion of 'World Cancer Day 2014' organized by Association of Pharmacy Professional – MP State branch at Hotel Ronak Plaza, M.P. Nagar, Zone-1, Bhopal (MP). 4th February, **2014**
6. Fatty acyl and peptidic Adriamycin synthesis and evaluation as new Prodrugs with novel pharmacological profile for cancer treatment. In APP-National Annual Symposium on Novel Drug Discovery and Development: Current Status and Challenges Ahead. At Dharmsinh Desai University, Nadiad, Gujarat. 18th January **2014**.
7. Global Epidemiology of HIV infections and treatment strategies. Bhupender Singh in APP-IU Collaborative Symposium on 'Current Pharmaceutical Development' at Invertis Institute of Pharmacy, Invertis University, Bareilly, Uttar Pradesh. 28 December **2013**.
8. Targeting the cancers using radiolabelled monoclonal antibodies. **Bhupender S. Chhikara**. National Conference on emerging areas in biomedical Sciences, 28-30th December, **2002**, Bundelkhand University, Jhansi, India.

Oral Presentations

9. Pharmaceutical design rational of delivery system and development of potent prodrug for Doxorubicin in cancer therapy. **Bhupender S. Chhikara**, In 'International Conference on Nascent Developments in Chemical Sciences: Opportunities for Academia-Industry Collaborations' Organized by Department of Chemistry, Birla Institute of Technology and Science, Pilani, Rajasthan. Oct 16-18, **2015**.
10. Nanoconjugates of natural products: pharmacological and therapeutic potential in cancer therapy. **Bhupender S. Chhikara**, In 'National conference on Ethnopharmacology and Biotechnology in Drug Development: Prospects and Challenges' organized by Institute of Biomedical Sciences, Bundelkhand University, Jhansi and Society for Ethnopharmacology, India. Nov. 14-15, **2014**.
11. Systematic and rationalized development of delivery system efficacies and prodrugs of Doxorubicin for leukemia, breast and ovarian cancer treatment. **Bhupender S. Chhikara**, In 'National conference on advanced scientific development in chemical sciences-2014' organized by Department of Chemistry, DeenbandhuChhotu Ram University of Science and Technology, Murthal, India. March 14, **2014**.
12. Design, Synthesis and Evaluation of lipophilic and cell penetrating peptidic Doxorubicin prodrugs. **Bhupender S. Chhikara**, in 'National Conference on Global Challenges: New frontiers in Chemical Sciences' organized by Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana. 22-23 September, **2012**.
13. Near Infra Red region spectroscopy in various chemical and biochemical applications. **Bhupender S. Chhikara**. in a workshop on 'Recent analytical developments in applied sciences' organized by Central Instrumentation Laboratory, DCR University of Science and Technology, Murthal, Haryana, 13-14 August, **2012**.
14. Synthesis of potential bifunctional chelating agents for radiolabeling of monoclonal antibodies with ^{99m}Tc. (Oral) **Bhupender S. Chhikara**. Annual Symposium in Biomedical Sciences, 11-12th April, **2002**, University of Delhi, Delhi.
15. Synthesis and evaluation of new ^{99m}Tc-BPAS-DTPA radiometal complex for imaging of bacterial infections: A preliminary Study. (Oral) **Bhupender S. Chhikara**. Biosparks 2006 4th Annual Research Festival, 9-10th March **2006**, Jawaharlal Nehru University, New Delhi.
(Poster presentations 16-34)