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Dr.

Bhupender SINGH



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.

Lateral Education

2002-2003 **Master of Science (M.Sc.) Computer Science**,
M. D. UNIVERSITY, Rohtak (Haryana), INDIA.

2001-2002 Advanced Postgraduate Diploma in Information
Technology (APGDIT),
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-Mar 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

- ✓ '**YOUNG SCIENTIST AWARD**' by Association of Pharmacy Professionals (APP), India **2014**.
- ✓ **NSS Merit Certificate** for dedication and excellence in social services by National Service Scheme (NSS) India, **1995**.
- ✓ Prize for Talk in Cultural competition (Third position) on Republic day celebrations, Govt. Boys Sr. Sec. School, Bankner, Delhi, **1989**.

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	Honors' and pass Graduate Courses
Chemistry I and II	Graduate (B. El. Ed.) Classes
Organic chemistry Laboratory experimentation	Graduate (B. El. Ed.) students
Environmental Studies	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

Publications

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 Integrated Science Publications, 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 (Editor)

B. Journal papers (published) - 54 Scientific research papers published in international journals,

54 Cleaning the molecular machinery of cells via proteostasis, proteolysis and endocytosis selectively, effectively, and precisely: intracellular self-defense and cellular perturbations. Rajiv Kumar, Bhupender S. Chhikara, Kiran Gulia, Mitrabasu Chhillar. *Molecular Omics*, **2020**, Accepted.

53 Review insights of nanotheranostics for molecular mechanisms underlying psychiatric disorders and commensurate nanotherapeutics for neuropsychiatry: the mind-knockout.

Rajiv Kumar, **Bhupender S Chhikara***, Kiran Gulia, Mitrabasu Chhillar. *Theranostics*, **2020**, Accepted.

52 Developmental and histochemical studies on carposporophyte of *Solieria robusta* (Greville) Kylin (Solieriaceae, Gigartinales) from Port Okha, India. I.N. Gahlawat, P. Lakra, J. Singh, Bhupender S. Chhikara, *J. Integr. Sci. Technol.*, **2020**, 8(2), 12-20.

51 Experimental and Computational Studies of Microwave-Assisted, Facile Ring Opening of Epoxide with Less Reactive Aromatic Amines in Nitromethane. Sumit Kumar, Charu Upadhyay, Meenakshi Bansal, Maria Grishina, **Bhupender S. Chhikara**, Vladimir Potemkin, Brijesh Rathi, and Poonam. *ACS Omega*, **2020**, 5(30), 18746-57. doi:10.1021/acsomega.0c01760

50 Knowledge drain or Brain drain: the one more dangerously significant.

Bhupender S. Chhikara, *Current Science*, **2020**, 119(3), 421.

49 Phenylpyrazalopyrimidines as Tyrosine Kinase Inhibitors: Synthesis, Antiproliferative Activity, and Molecular Simulations.

Bhupender S. Chhikara, Sajda Ashraf, Saghar Mozaari, Nicole St. Jeans, Dindyal Mandal, Rakesh K. Tiwari, Zaheer Ul-Haq, Keykavous Parang. *Molecules*, **2020**, 25, 2135; doi:10.3390/molecules25092135

- 48 Corona virus SARS-CoV-2 disease COVID-19: Infection, prevention and clinical advances of the prospective chemical drug therapeutics.
Bhupender S. Chhikara, Brijesh Rathi, J. Singh, Poonam. *Chem. Biol. Lett.* **2020**, 7 (1), 63–72.
- 47 Indian Medicinal Plants for skin care and cosmeceuticals: A review. A. Kotnala, K. Verma, A. Sharma, Shweta Parashar, Brijesh Rathi, Rajiv Kumar, Bhupender S. Chhikara, Jyoti Singh. *J. Biomed. Ther. Sci.* **2019**, 6 (2), 24–60.
- 46 Critical evaluation of pharmaceutical rational design of Nano-Delivery systems for Doxorubicin in Cancer therapy. **Bhupender S. Chhikara**, Brijesh Rathi, Keykavous Parang. *Journal of Materials Nanoscience*, **2019**, 6 (2), 47–66.
- 45 Biosorption of metal toxicants and other water pollutants by Corn (Maize) plant: A comprehensive review. A. Sharma, A. Tomer, J. Singh, B.S. Chhikara. *J. Integr. Sci. Technol.* **2019**, 7 (2), 19-29.
- 44 Evaluation of awareness about beauty products composition and proper utilization among college students. S. Bhardwaj, S. Parashar, K. Verma, R. Arora, B.S. Chhikara. *Integr. J. Soc. Sci.* **2019**, 6 (2), 57–64.
- 43 Theoretical and experimental studies of an Oseltamivir–triazole-based thermoresponsive organogel. Sumit Kumar, Lidong Wu, Neha Sharma, Ayushee, Kumar Kaushik, Maria Grishina, Bhupendra S. Chhikara, Poonam, Vladimir Potemkin and Brijesh Rathi. *RSC Advances*, **2019**, 9, 21031–21041.
- 42 Nanochemistry and Nanocatalysis Science: Research advances and future perspective. **Bhupender S. Chhikara**, Rajender S. Varma. *J. Materials Nanoscience*, **2019**, 6(1), 1-6.
- 41 Multistage inhibitors of the malaria parasite: Emerging hope for chemoprotection and malaria eradication. Poonam, Yash Gupta, Nikesh 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.
- 40 Current trends in nanomedicine and nanobiotechnology research. B.S. Chhikara. *J. Mat. NanoScience*, **2017**, 4(1), 19-24.
- 39 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.
- 38 Prospects of Applied Nanomedicine: potential clinical and (bio) medical interventions via nanoscale research advances. BS Chhikara, R Kumar, B Rathi, S Krishnamoorthy, A Kumar. *J. Materials NanoScience*, **2016**, 3 (2), 50-56.
- 37 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.
- 36 Organic molecular drugs designing for inhibition of cellular multiplication biocycle of virus for anti-HIV therapy development: A recent advances review. **Bhupender S. Chhikara**, B. Rathi. *Adv. Org. Chem. Lett.* **2015**, 2 (1), 1–14.
- 35 Good Governance: Role of science, technology and Innovations.
Bhupender S. Chhikara. *Integrated Journal of Social Sciences* **2015**, 2(1), 7-14.
- 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.
- 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., Keykavous Parang. *Canadian Journal of Chemistry*, **2014**, 92(12), 1145-49.
- 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, R. Tiwari, **Bhupender S Chhikara**, Keykavous Parang, Anil Kumar. *RSC Advances*, **2013**, 3, 22346-22352.
- 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.
- 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.
- 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.
- 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.
- 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, Keykavous Parang. *Journal of Medicinal Chemistry*, **2012**, 55 (10), 4861-4871.
- 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.
- 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.
- 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.
- 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.
- 17** Ionic Liquid Supported Synthesis of Sulfonamides and Carboxamides. Manoj Kumar Muthayala, **Bhupender S. Chhikara**, Keykavous Parang, Anil Kumar. *ACS Combinatorial Science*, **2012**, 14 (1), 60-65.

- 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, Anil Kumar. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 410-414.
- 15 3-Substitued 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 2 Efficient oxidizing methods for the synthesis of Oxandrolone intermediates. Sandeep Ginotra, **Bhupender S. Chhikara**, Manish Singh, R. Chandra, V. Tandon. *Chem. 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.

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.

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**

International Conference on Integrative Chemistry, Biology and Translational Medicine (ICBTM-2019) organized by Center for Global Health, Hansraj College, University of Delhi, Delhi, India & Loyala University Chicago Stritch School of Medicine, USA on 25-26 February, 2019 - **Organizing Member**

Third National Conference on Emerging synergistic trends in Ayurvedic and Biomedical Sciences, February 19-20, 2020 organized by Bundelkhand University, Jhansi. - **Organizing Member**

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. 4 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**.
- ◆ **Judge, Poster session**, APP Annual Virtual International Convention. Dec 19-20, **2020**.

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, ShahbadDaultpur, Delhi 15-Dec-2014 to 26-Dec-**2014**.