




## University of Delhi

Title	Prof.	First Name	Sunil	Last Name	Sharma	Photograph
Designation		Professor				
Department		Chemistry				
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Web-Page		<a href="http://work.du.ac.in/mrsd/uploads/faculty_cv/sksharma@chemistry.du.ac.in_Resume_SKS_Nov_17.pdf">http://work.du.ac.in/mrsd/uploads/faculty_cv/sksharma@chemistry.du.ac.in_Resume_SKS_Nov_17.pdf</a>				
Education						
Subject		Institution		Year	Details	
Ph. D.		University of Delhi		1992	Thesis topic: New Natural Products and their spectral studies	
M. Sc.		University of Delhi		1986	Subjects: Organic Chemistry (Spl.)	
B. Sc.		University of Delhi		1984	Subjects: Chemistry (Hons.)	
Career Profile						
Organization / Institution		Designation		Duration	Role	
University of Delhi		Professor		2010-present	Teaching and research	
University of Delhi		Associate Professor		2004-2010	Teaching and research	
University of Massachusetts Lowell, USA		Research Scientist		2002 - 2004	Carried research in the areas of Polymer Chemistry & Nanotechnology	
Boston College, Boston, USA		Scientist		2000-2002	Synthesis of platinated oligo-nucleotides and peptide nucleic acid	
University of Delhi		Scientist 'B'		1997-2000	Biotransformations and synthesis of bioactive compounds	
Copenhagen University & University of Southern Denmark		Research Fellow		1996-1997	Synthesis of carbohydrate modified nucleosides & phytochemical investigation of plants	
CSIC, Madrid, Spain		Post-Doctoral Fellow		1993-1995	Molecular recognition and glycophane synthesis	
Research Interests / Specialization						
Organic synthesis, Bio-catalysis, Chemistry of natural products, Nucleic acid chemistry, Polymer synthesis, and Nanotechnology						
Administrative Assignments						
Dec. 2014: Deputy Superintendent, Centralized Evaluation of M.Sc. Theory Examination – Department of Chemistry, University of Delhi.						
2011 – 2012: Convener, Organic Section, Department of Chemistry, University of Delhi.						
Nov. 2011: Deputy Superintendent of Practical Examination, M.Sc. – Chemistry Examinations, University of Delhi.						
Dec. 2010: Deputy Superintendent of Theory Examination, M.Sc. – Chemistry Examinations, University of Delhi.						
Teaching Experience (Subjects/Courses Taught)						
Spectroscopic techniques for identification of organic compounds, Reaction mechanisms, Chemistry of natural products, Chemistry of life processes, Photochemistry						
Honors & Awards						
2016	An article entitled 'Biomedical applications of dendritic polyglycerols' published in the journal <i>Advanced Materials</i> <b>22</b> , 190-218 (2010), has been listed among the top ten most cited articles from India in the ' <i>International Comparative Performance of India's Research Base (2009-2014)</i> ', published by National Science and Technology Management Information System (NSTMIS), Department of Science & Technology (DST), Ministry of Science & Technology, Government of India, New Delhi in December 2015 (Table 6.9, p. 119).					
2015	DST-SERB International Travel Grant Award.					
2011	CREST Award by Department of Biotechnology, Government of India to visit University of Massachusetts Lowell, USA.					
2007	Overseas Associate Award by Department of Biotechnology, Government of India to visit Massachusetts Institute of Technology (MIT, USA).					
2000	Research associate fellowship by National Institute of Health, USA.					

1999 International Authors Award from the Royal Society of Chemistry (UK).  
 1999 Travel grant award by International Union of Pure and Applied Chemistry (IUPAC).  
 1998 Best oral presentation award in National Seminar on "Perspectives in Interfacial Areas of Chemistry and Biology" held at University of Delhi, Delhi.  
 1996 Research Fellowship by Danish International Development Agency (DANIDA), Denmark.  
 1993 Postdoctoral Fellowship by Spanish Ministry of Education and Science, Spain.  
 1986 Qualified Graduate Aptitude Test in Engineering (GATE) of Indian Institute of Technology (IIT).  
 1986 Awarded Junior and Senior Research Fellowships; Qualified NET (University Grants Commission).

**Publications overview: Total Impact = 452.204; Avg. Impact: 3.3007; Citations: 2865; h-Index: 28; i10-Index: 74**

**Journal [No. of papers published, Impact factor]: Publication details**

*Chem. Soc. Rev.* [1, IF: 38.618]: **45**, 6855 (2016);  
*Advanced Materials* [1, IF: 18.96]: **22**, 190-218 (2010);  
*J. Am. Chem. Soc.* [3, IF: 13.858]: **126**, 70-71 (2004); **124**, 9658-9659 (2002); **117**, 11198-204 (1995);  
*Angew Chem. Int. Ed.* [1, IF: 11.994]: **51**, 9572 - 9575 (2012);  
*Small* [2, IF: 8.643]: **9**, 894-904 (2013); 2018 (accepted for publication)  
*ChemSusChem* [1, IF: 7.226]: **7**, 379-390 (2014);  
*Org. Lett.* [1, IF: 6.579]: **15**, 1874-77 (2013);  
*Chem. Commun.* [5, IF: 6.319]: **49**, 6803-05 (2013); **48**, 10916-18 (2012); 2616-2617 (2007); 2689-2691 (2004); 27-29 (1993);  
*J. Med. Chem.* [1, IF: 6.259]: **54** (12), 4147 - 4159 (2011);  
*The FASEB Journal* [1, IF: 5.498]: **14**, A1513 (2000);  
*Polymer Chem.* [1, IF: 5.375]: **7** (4), 887-898 (2016);  
*Biochimica et Biophysica Acta* [1, IF: 5.083]: **1698**, 55 - 66 (2004);  
*J. Org. Chem.* [1, IF: 4.849]: **61**, 6790-6798 (1996);  
*Macromol. Rapid Communications* [1, IF: 4.638]: **36**, 254-261 (2015);  
*J. Mat. Chem. B* [1, IF: 4.543]: **1**, 3569-3577 (2013);  
*Eur. J. Med. Chem.* [1, IF: 4.519]: **42**, 447-455 (2007);  
*J. Proteome Res.* [1, IF: 4.268] **11**(6), 3259-3268 (2012);  
*Chemistry – An Asian Journal* [1, IF: 4.083]: **12**, 1796-1806 (2017);  
*Catalysts* [1, IF: 3.947]: **7**, 123 - (2017);  
*The Chemical Record* [1, IF: 3.855]: **16** (1), 73-83 (2016);  
*Macromol. Biosci.* [1, IF: 3.85]: 1800019 (2018). DOI: 10.1002/mabi.201800019.  
*Polymer* [1, IF: 3.684]: **53**(15), 3053-3078 (2012);  
*FEBS Letters* [1, IF: 3.623]: **579**, 1665-1669 (2005);  
*Microchem. Journal* [1, IF: 3.583]: **90**, 89-92 (2008);  
*Org. Biomol. Chem.* [1, IF: 3.564]: **5**, 3524-3530 (2007);  
*J. Chem. Soc., Perkin Trans\**. [1, IF: 3.564]: **1**, 1409-1422 (1998);  
*Eur. Polymer Journal* [2, IF: 3.531] **69**, 416-428 (2015); **80**, 158-168 (2016)  
*Polymers* (MDPI) [1, IF: 3.364] **8**, 311 (2016);  
*J. Inorg. Biochem.* [1, IF: 3.348]: **98**, 1570-1577 (2004);  
*Microbiol. Res.* [1, IF: 3.037]: **166** (8), 662-672 (2011);  
*Curr. Med. Chem.* [2, IF: 3.249]: **18** (25), 3758 - 3824 (2011); **18** (25), 3825 - 3852 (2011);  
*Bioorg. Chem.* [2, IF: 3.231]: **40**, 131-136 (2012); **53**, 75-82 (2014);  
*Phytochemistry* [1, IF: 3.205]: **36**, 507-511(1994);  
*Biochimie* [3, IF: 3.112]: **92**, 1173-79 (2010); **92**, 1180-85 (2010); **92**, 1089-1100 (2010);  
*RSC Advances* [3, IF: 3.108] **5**, 48301-310 (2015); **7**, 22121 - 22132 (2017); **7**, 37534 - 37541 (2017);  
*PLOS One* [1, IF: 3.054]: **9**, e103039 (2014);  
*Bioorg. Med. Chem.* [13, IF: 2.930]: **20**, 1624-1638 (2012); **18**, 4085-94 (2010); **17**, 1550-1556 (2009); **15**, 2952-2962 (2007); **13**, 4300-4305 (2005); **11**, 913-929 (2003); **9**, 1345-1348 (2001); **9**, 2643-2652 (2001); **8**, 233-237 (2000); **8**, 1707-1712 (2000); **7**, 2091-2094 (1999); **5**, 1609-1619 (1997); **4**, 2225-2228 (1996);  
*Molecules* [1, IF: 2.861]: **21**, 1038 (2016);  
*Eur. J. Org. Chem.* [3, IF: 2.834] 1223-27 & 2288-2292 (2013); 2084-2091 (2014);  
*Catalysis Letters* [1, IF: 2.799]: **145** (3), 919-929 (2015);  
*Sensors* [1, IF: 2.677]: **15**, 31987-98 (2015)  
*Tetrahedron* [3] [IF: 2.651]: **71** (21), 3333-3342 (2015); **61**, 5687-5697 (2005); **53**, 2163-2176 (1997);

*Synthesis* [2, IF: 2.65]: **45**, 2571-82 (2013); **47** (9), 1337-1347 (2015);  
*Pure and Applied Chemistry* [4, IF: 2.626]: **77**, 209–226 (2005); **77**, 91-101 (2005); **77**, 201-208 (2005); **77**, 65–74 (2005);  
*J. Photochem. Photobiol. A: Chemistry* [1, IF: 2.625] **280**, 39-45 (2014);  
*Current Topics Med. Chem.* [1, IF: 2.561]: **14**, 2552-2575 (2014);  
*Spectrochimica Acta* [1, IF: 2.536]: **48A**, 617-620 (1992);  
*J. Pharm. Sci.* [1, IF: 2.59]: **83**, 1217-1221 (1994);  
*Macromol. Chem. Phys.* [1, IF: 2.495]: **211**, 239-244 (2010);  
*Bioorg. Med. Chem. Lett.* [1, IF: 2.454]: **6**, 2269-2274 (1996);  
*Org. Mass Spectrom.*<sup>#</sup> [1, IF: 2.422]: **28**, 23-26 (1993);  
*Beilstein J. Org. Chem.* [1, IF: 2.337]: **9**, 2097-2102 (2013);  
*Tet. Lett.* [3, IF: 2.193]: **40**, 9145-9146 (1999); **36**, 5627-30 (1995); **55**, 2070-74 (2014);  
*Archiv. der Pharm.* [3, IF: 1.994]: **345**, 368-77 (2012); **350**, e1600390 (2017); **350**, e1700076 (2017);  
*Polymer Adv. Tech.* [2, IF: 1.907]: **25**, 1208-1215 (2014);  
*Mag. Reson. Chem.*<sup>#</sup> [3, IF: 1.601]: **54**, 91-102 (2016); **30**, 560-563 (1992); **28**, 470-474 (1990);  
*Adv. Poly. Tech* [2, IF: 1.291]: 1-9 (2017, DOI: 10.1002/adv.21839);  
*Indian J. Microbiol.* [1, IF: 1.290]: **57** (4), 499-502 (2017)  
*Med. Chem. Res.* [3, IF: 1.277]: **23**, 4907-4914 (2014); **24**, 2297-2313 (2015); **25** (6), 1057-1073 (2016)  
*J. Chem. Sci.* [2, IF: 1.235]: **124** (2), 437-449 (2012); **129** (2), 211-222 (2017);  
*Int. J. Art. Organ* [1, IF: 1.169]: **34**, 84 - 92 (2011);  
*Pharmaceutical Biology* [1, IF: 1.546]: **54** (1), 105-110 (2016);  
*Biol. Pharm. Bulletin* [1, IF: 1.26]: **39** 1544-1548 (2016)  
*Synth. Commun.* [1, IF: 1.134]: **47**, 1854-1863 (2017);  
*Med. Chem.* (OMICS International, Los Angeles) [1, IF: 1.18]: **6** (7), 506-514 (2016);  
*Canadian J. Chem.* [1, IF: 1.08]: 91, 741-754 (2013);  
*Prot. Pept. Lett.* [1, IF: 0.964]: **18**, 507-517 (2011);  
*J. Macromol. Sci., Pt. A Pure and Applied Chemistry* [2, IF: 0.963]: **48** (2), 1055 – 1060 (2011); **41**, 1459-66 (2004);  
*J. Het. Chem.* [2, IF: 0.893]: **52**, 562-572 (2015); **53**, 1264-75 (2016);  
*Biocat. Biotrans.* [1, IF: 0.836]: **28**, 172-84 (2010);  
*Russian J. Org. Chem.* [1, IF: 0.603]: **31**, 1839-1848 (1995);  
*Trends Carb. Res.* [2, IF: 0.562] **3**, 18-34 (2011); **8**, 1-8 (2016);  
*Indian J. Chem.* [12, IF: 0.471]: **51B**, 1376-87 (2012); **46B**, 1501-1510 (2007); **42B**, 1950-1957 (2003); **41B**, 360-367 (2002); **38B**, 1231-1233 (1999); **37B**, 628-643 (1998); **35B**, 220-232 (1996); **33B**, 17-26 (1994); **33B**, 305-308 (1994); **32B**, 244-256 (1993); **55B**, 492-500 (2016); **56B**, 1243-1250 (2017).  
*J. Sci. Ind. Res.* [2, IF: 0.385]: **59**, 893-903 (2000); **57**, 873-890 (1998);  
*J. Indian Chem. Soc.* [2, IF: 0.145]: **79**, 787-795 (2002); **67**, 207-209 (1990);  
*Polymer Preprints* [2]: **49(2)**, 1066-1067 (2008); **44(2)**, 791-792 (2003);  
*Chem. Biol. Interface* [1, IF: Not cited] **1** (2), 279-296 (2011);  
*NSTI-Nanotech 2013* [1]: Tech. Connect World Proceedings Vol. 3, 308-11 (2013);

<sup>\*</sup> Now published as Org. Biomol. Chem.

<sup>#</sup> Now published as J. Mass. Spectrom.

Publication Details	Total: 137	Avg. Impact: 3.413	Citations: 2668	h-Index: 27	i10-Index: 69
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- AK Singh, BNS Thota, B Schade, K Achazi, A.Khan, C Böttcher, SK Sharma, R Haag. Aggregation behaviour of non-ionic twinned amphiphiles and their application as biomedical nanocarriers. *Chemistry – An Asian Journal* **12**, 1796-1806 (2017, DOI: 10.1002/asia.201700450R1). IF: 4.083
- K Huth, M Gläske, K Achazi, G Gordeev, S Kumar, R Arenal, S K Sharma, M Adeli, A Setaro, S Reich, R Haag Synthesis and characterization of fluorescent polymer - single-walled carbon nanotube complexes with charged and noncharged dendronized perylene bisimides for bioimaging studies. *Small* **2018** (accepted for publication) IF: 8.643
- S Prasad, K Achazi, B Schade, R Haag, S K Sharma. Nonionic Dendritic and Carbohydrate Based Amphiphiles: Self-Assembly and Transport Behavior. *Macromol. Biosci.* 1800019 (2018). DOI: 10.1002/mabi.201800019. IF: 3.85
- AK Singh, S Prasad, B Kumar, S Kumar, A Anand, SS Kamble, SK Sharma, HK Gautam. Antimicrobial efficacy of synthetic pyranochromenones and (coumarinyloxy)acetamides. *Indian J. Microbiol.* **57** (4), 499-502 (2017) (DOI 10.1007/s12088-017-0675-z). IF: 1.290
- K Chand, P Yadav, S Prasad, S K Sharma. Synthesis and antibacterial activity screening of *N*- & *O*- substituted quinolin-2-one acetamide derivatives. *Indian J. Chem.* **56B**, 1243-1250 (2017). IF: 0.471
- V Khatri, S Bhatia, K Achazi, S Deep, E Kohli, SK Sharma, R Haag, AK Prasad. Lipase-mediated synthesis of sugar–PEG-based

- amphiphiles for encapsulation and stabilization of indocyanine green. *RSC Advances* **7**, 37534 - 37541 (2017, DOI: 10.1039/c7ra04994c). IF: 3.108
7. S Prasad, B Kumar, S Kumar, K Chand, SS Kamble, HK Gautam, SK Sharma. Acetamide Derivatives of Chromen-2-ones as Potent Cholinesterase Inhibitors. *Archiv der Pharmazie* **350**, e1700076 (2017, DOI 10.1002/ardp.201700076). IF: 1.994
  8. AK Sharma, S Prasad, SK Sharma. Synthesis and Characterization of Novel Benzoxazine based Arylidinyl Succinimide Derivatives. *Synthetic Communications* **47**, 1854-1863 (2017) (DOI: 10.1080/00397911.2017.1354027). IF: 1.134
  9. S Prasad, K Achazi, C Böttcher, R Haag, SK Sharma. Fabrication of Nanostructures Through Self-assembly of Non-ionic Amphiphiles for Biomedical Applications. *RSC Advances* **7**, 22121 – 22132 (2017, DOI: 10.1039/c6ra28654b). IF: 3.108
  10. R Nguyen, N Galy, A K Singh, F Paulus, D Stöbener, C Schlesener, SK Sharma, R Haag, C Len. A Simple and Efficient Process for Large Scale Glycerol Oligomerization by Microwave Irradiation. *Catalysts* **7**, 123 (2017, doi:10.3390/catal7040123). IF: 3.947
  11. S Kumar, K Achazi, K Licha, P Manchanda, R Haag, SK Sharma. Chemo-enzymatic Synthesis of Dendronized Polymers for Cyanine dye Encapsulation. *Adv. Polymer Tech.* 1-9 (2017, DOI: 10.1002/adv.21839). IF: 1.291
  12. P Manchanda, B Parshad, A Kumar, RK Tiwari, A Nasrolahi Shirazi, K Parang, SK Sharma. Design, Synthesis and Evaluation of Kinase Inhibition Potential of Pyridylpyrimidinylaminophenyl Derivatives. *Archiv der Pharmazie* **350**, e1600390 (2017). (DOI: 10.1002/ardp.201600390). IF: 1.994
  13. P Yadav, B Kumar, HK Gautam, SK Sharma. Synthesis and Antibacterial Activity Screening of Quaternary Ammonium Derivatives of Triazolyl pyranochromenones. *J. Chem. Sci.* **129** (2), 211-222 (2017, DOI 10.1007/s12039-016-1214-x). IF: 1.235
  14. A Kumar, A Khan, S Malhotra, R Mosurkul, A Dhawan, MK Pandey, BK Singh, R Kumar, AK Prasad, SK Sharma, L Samuelson, AL Cholli, C Len, J Kumar, R Haag, AC Watterson, VS Parmar. Synthesis of Macromolecular Systems via Lipase Catalyzed Biocatalytic Reactions: Applications and Future Perspectives. *Chem. Soc. Rev.* **45**, 6855 (2016, DOI: 10.1039/c6cs00147e). IF: 38.618
  15. B Parshad, AJ Duraisamy, S Saini, P Yadav, P Vats, and SK Sharma Synthesis and SAR study of antioxidant potential of polyhydroxy coumarin derivatives. *Med. Chem.* (OMICS International, Los Angeles) **6** (7), 506-514 (2016). IF: 1.18
  16. B Parshad, M Kumari, K Achazi, C Böttcher, R Haag, SK Sharma. Enzyme-triggered drug release from perfluoroalkyl-functionalized dendronized polymers for Drug Delivery Applications. *Polymers* (MDPI) **8**, 311 (2016). IF: 3.364
  17. A Singh, R Nguyen, N Galy, R Haag, SK Sharma, C Len. Chemo-Enzymatic Synthesis of Oligoglycerol Derivatives. *Molecules* **21**, 1038 (2016). IF: 2.861
  18. S Malhotra, M Tavakkoli, N Edraki, R Miri, SK Sharma, AK Prasad, L Saso, C Len, VS Parmar, O Firuzi. Neuroprotective and Antioxidant Activities of 4-Methylcoumarins: Development of Structure–Activity Relationships. *Biol. Pharm. Bulletin* **39** 1544-1548 (2016). IF: 1.26
  19. S Stefani, P Servin, SK Sharma, R Haag. Core-shell Nanocarriers Based on PEGylated Hydrophobic Hyperbranched Polyesters. *Eur. Polymer Journal* **80**, 158-168 (2016). IF: 3.531
  20. A Kumar, S Singh, SK Sharma, VS Parmar, EV Van der Eycken. Gold-Catalyzed Cyclization Processes: Pivotal Avenues for Organic Synthesis. *The Chemical Record* **16** (1), 73-83 (2016). IF: 3.855
  21. S Stefani, I Nurita, SK Sharma, C Böttcher, P Servin, R Haag. Triglycerol-based Hyperbranched Polyesters with an Amphiphilic Branched Shell as Novel Biodegradable drug delivery systems. *Polymer Chem.* **7** (4), 887-898 (2016). IF: 5.375
  22. R Miri, M Nejati, L Saso, F Khakdan, B Parshad, D Mathur, VS Parmar, ME Bracke, AK Prasad, SK Sharma, O Firuzi. Structure-activity relationship study of 4-methylcoumarin derivatives as anticancer agents. *Pharmaceutical Biology* **54** (1), 105-110 (2016). IF: 1.546
  23. K Chand, AK Sharma, SK Sharma. Synthesis, <sup>1</sup>H and <sup>13</sup>C NMR Assignment of novel Pyridin-2(1H)-one Derivatives. *Magn. Res. Chem.* **54**, 91-102 (2016). IF: 1.601
  24. A Khan, S Prasad, VS Parmar, SK Sharma. Design and synthesis of novel triazolyl benzoxazine derivatives and evaluation of their antiproliferative & antibacterial activity. *J. Het. Chem.* **53**, 1264-75 (2016). IF: 0.893
  25. S Kumar, S Prasad, B Kumar, HK Gautam, SK Sharma. Synthesis of Novel Triazolyl Pyranochromen-2(1H)-ones and their Antibacterial Activity Evaluation. *Med. Chem. Res.* **25** (6), 1057-1073 (2016). IF: 1.277
  26. AK Sharma, P Yadav, K Chand, SK Sharma. Synthesis and characterization of new N-alkylated pyridin-2(1H)-ones. *Indian J. Chem.* **55B**, 492-500 (2016). IF: 0.471
  27. Rashmi, SK Sharma. Carbohydrate based bolaamphiphiles and their biomedical applications. *Trends Carb. Res.* **8** (4) 1-8. (2016). IF: 0.562
  28. P Yadav, HS Gill, K Chand, Lian Li, J Kumar, SK Sharma. Synthesis and Sensing Applications of Fluorescent 3-Cinnamoyl Coumarins. *Sensors* **15**, 31987-98 (2015). IF: 2.677
  29. S Kumar, K Achazi, C Böttcher, K Licha, R Haag, SK Sharma. Encapsulation and cellular internalization of cyanine dye using amphiphilic dendronized polymers. *Eur. Polymer Journal* **69**, 416-428 (2015). IF: 3.531
  30. M Kumari, M Billamboz, E Leonard, C Len, C Böttcher, AK Prasad, R Haag, SK Sharma. Self-assembly, Photoresponsive Behavior and Transport Potential of Azobenzene Grafted Dendronized Polymeric Amphiphiles. *RSC Advances* **5**, 48301-310 (2015). IF: 3.108
  31. S Prasad, S Kumar, B Kumar, AK Singh, HK Gautam, SK Sharma. Quaternary Ammonium and Amido Derivatives of Pyranochromenones and Chromenones: Synthesis and Antimicrobial Activity Evaluation. *Med. Chem. Res.* **24**, 2297-2313 (2015). IF: 1.277
  32. Z Li, A Kumar, SK Sharma, VS Parmar, EV Van der Eycken. Catalyst-controlled *exo/endo* selectivity in a post-Ugi

- intramolecular hydroarylation: synthesis of pyrrolopyridinones, pyrroloazepinones and benzothienopyridines. *Tetrahedron* **71** (21), 3333-3342 (2015). IF: 2.651
33. DD Vachhani, A Kumar, SG Modha, SK Sharma, VS Parmar, EV Van der Eycken. Diversely Substituted Indoloazepinones and Indoloazocinones: A Post-Ugi Gold-Catalyzed Regioselective Carbocyclization Approach. *Synthesis* **47** (9), 1337-1347 (2015). IF: 2.65
  34. G Kumar, A Dhawan, BK Singh, NK Sharma, SK Sharma, AK Prasad, EV Van der Eycken, C Len, AC Watterson, VS Parmar. Highly Selective Biocatalytic Transesterification Reactions on: Aryl 3-Hydroxy-2-(hydroxymethyl)-2-methylpropanoates. *Catalysis Letters* **145** (3), 919-929 (2015). IF: 2.799
  35. K Chand, RK Tiwari, S Kumar, AN Shirazi, EV Van der Eycken, VS Parmar, K Parang, SK Sharma. Synthesis, Antiproliferative, and c-Src Kinase Inhibitory Activities of Chromone Derivatives. *J. Het. Chem.* **52**, 562-572 (2015). IF: 0.893
  36. M Kumari, S Gupta, K Achazi, C Böttcher, J Khandare, SK Sharma, R Haag. Dendronized Multifunctional Amphiphilic Polymers as Efficient Nanocarriers for Biomedical Applications. *Macromol. Rapid Commun.* **36**, 254-261 (2015). IF: 4.608
  37. P Yadav, B Parshad, P Manchanda, SK Sharma. Chromones and their Derivatives as Radical Scavengers: A Remedy for Cell Impairment. *Current Topics in Medicinal Chemistry* **14**, 2552-2575 (2014). IF: 2.561
  38. S Singh, R Dabur, MM Gatne, B Singh, S Gupta, SK Sharma, GL Sharma. *In vivo* Efficacy of a Synthetic Coumarin Derivative in a Murine Model of Aspergillosis. *PLOS One* **9** (8), e103039 (2014). IF: 3.054
  39. P Vats, V Hadjimitova, K Yoncheva, A Kathuria, A Sharma, K Chand, AJ Duraisamy, AK Sharma, AK Sharma, L Saso, SK Sharma. Chromenone and Quinolinone derivatives as potent antioxidant agents. *Med. Chem. Res.* **23**, 4907-4914 (2014). IF: 1.277
  40. A Khan, SK Sharma, A Kumar, AC Watterson, J Kumar, VS Parmar. "Greener and Sustainable" Novozym 435 Catalyzed Syntheses of Polyesters and Polyamides of Medicinal and Industrial Relevance. *ChemSusChem* **7**, 379-390 (2014). IF: 7.226
  41. P Yadav, S Satapathi, M Kumari, A Chaturvedi, L Li, LA Samuelson, J Kumar, SK Sharma. Synthesis of two-photon active cinnamoyl coumarins for high-contrast imaging of cancer cells and their photophysical characterization. *J. Photochem. Photobiol. A: Chemistry* **280**, 39-45 (2014). IF: 2.625
  42. M Kumari, AK Singh, S Kumar, K Achazi, S Gupta, R Haag, SK Sharma. Synthesis of amphiphilic dendronized polymers to study their self-assembly and transport behavior. *Polymer Adv. Tech.* **25**, 1208-1215 (2014). IF: 1.907
  43. Z Li, L Legras, A Kumar, DD Vachhani, SK Sharma, VS Parmar, EV Van der Eycken. Microwave-assisted synthesis of 4H-benzo[f]imidazo[1,4]diazepin-6-ones via a post-Ugi copper-catalyzed intramolecular Ullmann coupling. *Tetrahedron Letters* **55**, 2070-74 (2014). IF: 2.193
  44. K Chand, S Prasad, RK Tiwari, AN Shirazi, S Kumar, K Parang and SK Sharma. Synthesis and Evaluation of c-Src Kinase Inhibitory Activity of Pyridin-2(1H)-one Derivatives. *Bioorg. Chem.* **53**, 75-82 (2014). IF: 3.231
  45. Z Li, A Kumar, DD Vachhani, SK Sharma, VS Parmar, EV Van der Eycken. Regioselective Synthesis of Diversely Substituted Diazoninones via A Post-Ugi Gold-Catalyzed Intramolecular Hydroarylation Process. *Eur. J. Org. Chem.* 2084-2091 (2014). IF: 2.834
  46. A Kumar, DD Vachhani, SG Modha, SK Sharma, VS Parmar, EV Van der Eycken. Post-Ugi gold-catalyzed diastereoselective domino cyclization for the synthesis of diversely substituted spiroindolines. *Beilstein J. Org. Chem.* **9**, 2097-2102 (2013). IF: 2.337
  47. A Kumar, DD Vachhani, SG Modha, SK Sharma, VS Parmar, EV Van der Eycken. Post-Ugi gold (I)- and platinum (II) - catalyzed alkyne activation: Synthesis of diversely substituted fused azepinones and pyridinones. *Synthesis* **45**, 2571-82 (2013). IF: 2.65
  48. IN Kurniasih, H Liang, S Kumar, A Mohr, SK Sharma, JP Rabe, R Haag. A bifunctional nanocarrier based on amphiphilic hyperbranched polyglycerol derivatives. *J. Mat. Chem. B* **1**, 3569-3577 (2013). IF: 4.543
  49. A Kumar, Z Li, SK Sharma, VS Parmar, E Van der Eycken. Switching the regioselectivity via indium (III) and gold (I) catalysis: a post-Ugi intramolecular hydroarylation to azepino- and azocino-[cd]indolones. *Chem. Commun.* 6803-05 (2013). IF: 6.319
  50. A Kumar, Z Li, SK Sharma, VS Parmar, EV Van der Eycken. An Expedient route to imidazo[1,4]diazepin-7-ones via a Post-Ugi gold-catalyzed heteroannulation. *Org. Lett.* **15** (8), 1874-77 (2013). IF: 6.579
  51. K Chand, AN Shirazi, P Yadav, RK Tiwari, M Kumari, K Parang, SK Sharma. Synthesis, antiproliferative and c-Src kinase inhibitory activities of cinnamoyl- and pyranochromen-2-one derivatives. *Canadian J. Chem.* **91**, 741-754 (2013). IF: 1.066
  52. A Kumar, DD Vachhani, SG Modha, SK Sharma, VS Parmar, EV Van der Eycken. Gold(I)-catalyzed Post-Ugi hydroarylation: An efficient approach to pyrrolopyridines and azepinoindoles. *Eur. J. Org. Chem.* 2288-2292 (2013). IF: 2.834
  53. DD Vachhani, A Kumar, SG Modha, SK Sharma, VS Parmar, EV Van der Eycken. Diversely substituted triazolo[1,5-a][1,4]benzodiazepinones: A Post-Ugi copper-catalyzed tandem azide-alkyne cycloaddition/ullmann C-N coupling approach. *Eur. J. Org. Chem.* 1223-1227 (2013). IF: 2.834
  54. S Gupta, B Schade, S Kumar, C Böttcher, SK Sharma, R Haag. Dendronized multiamphiphilic polymers as non-ionic nanotransporters for biomedical applications: Synthesis, aggregation behavior and transport properties. *Small* **9** (6), 894-904 (2013). IF: 8.643
  55. SG Modha, A Kumar, DD Vachhani, SK Sharma, VS Parmar, EV Van der Eycken. Gold (I) and platinum (II) switch: A post-Ugi intramolecular hydroarylation to pyrrolopyridinones. *Chem. Commun.* **48**, 10916 – 10918 (2012). IF: 6.319
  56. SG Modha, A Kumar, DD Vachhani, J Jacobs, SK Sharma, VS Parmar, LV Meervelt and EV Van der Eycken. Diversity-oriented approach to spiroindolines: Post-Ugi gold-catalyzed diastereoselective domino cyclization. *Angew Chem. Int. Ed.* **51**, 9572 – 9575 (2012). IF: 11.994
  57. S Gupta, S Jalal, S Kumar, R Haag, SK Sharma. A simple and convenient chemoenzymatic approach for the synthesis of



- valuable triacylglycerol-based dendritic building blocks. *Indian J. Chem.* **51B**, 1376-1387 (2012). IF: 0.729
58. S Singh, S Gupta, B Singh, SK Sharma; VK Gupta, GL Sharma. Proteomic characterization of *Aspergillus fumigatus* treated with an antifungal coumarin for identification of novel target molecules of key pathways. *J. Prot. Res.* **11**, 3259-3268 (2012). IF: 4.268
  59. S Gupta, R Tyagi, VS Parmar, SK Sharma, R Haag. Polyether based amphiphiles for delivery of active components. *Polymer* **53**, 3053-3078 (2012). IF: 3.364
  60. S Kumar, CS Reddy L, Y Kumar, A Kumar, BK Singh, V Kumar, S Malhotra, MK Pandey, R Jain, R Thimmulappa, SK Sharma, AK Prasad, S Biswal, EV Van der Eycken, AL DePass, SV Malhotra, B Ghosh, VS Parmar. Arylalkyl ketones, benzophenones, desoxybenzoin and chalcones inhibit TNF- induced expression of ICAM-1: Structure-activity analysis. *Arch. der. Pharm.* **345**, 368-77 (2012). IF 1.994
  61. S Jalal, K Chand, A Kathuria, P Singh, N Priya, B Gupta, HG Raj, SK Sharma. Calreticulin transacetylase: A novel enzyme-mediated protein acetylation by acetoxy derivatives of 3-alkyl-4-methylcoumarins. *Bioorg. Chem.* **40**, 131-136 (2012). IF: 3.231
  62. A Kathuria, N Priya, K Chand, P Singh, A Gupta, S Jalal, S Gupta, HG Raj, SK Sharma. Calreticulin mediated transacetylase activity utilizing derivatives of coumarin and quinolone as a substrate: Investigations on antiplatelet function *Bioorg. Med. Chem.* **20**, 1624-1638 (2012). IF: 2.930
  63. S Gupta, S Singh, A Kathuria, M Kumar, S Sharma, R Kumar, VS Parmar, B Singh, A Gupta, EV Van der Eycken, G.L. Sharma, SK Sharma. Ammonium derivatives of chromenones and quinolinones as lead antimicrobial agents. *J. Chem. Sci.* **124**, 437-449 (2012). IF: 1.235
  64. SK Sharma, S Kumar, S Jalal. Glycerol and its Value-added products. *Trends Carb. Res.* **3** (4) 18-34 (2011). IF: 0.562
  65. V Kumar, S Kumar, M Hassan, H Wu, RK Thimmulappa, A Kumar, SK Sharma, VS Parmar, S Biswal, SV Malhotra. Novel chalcone derivatives as potent Nrf2 activators in mice and human lung epithelial cells. *J. Med. Chem.* **54**, 4147 – 4159 (2011). IF: 6.259
  66. A Kathuria, S Jalal, R Tiwari, AN Shirazi, S Gupta, S Kumar, K Parang, SK Sharma. Substituted coumarin derivatives: Synthesis and evaluation of antiproliferative and Src kinase inhibitory activities. *Chem. Biol. Interface* **1**, 279-296 (2011). IF: Not cited
  67. Poonam, Raunak, G Kumar, CS Reddy LR Jain, SK Sharma, AK Prasad, VS Parmar. Chemical constituents of the genus *Prunus* and their medicinal properties. *Curr. Med. Chem.* **18**, 3758 – 3824 (2011). IF: 3.249
  68. HG Raj, SK Sharma, VS Parmar. Protein acyltransferase function of purified calreticulin: The exclusive role of P-domain in mediating protein acylation utilizing acyloxycoumarins and acetyl CoA as the acyl group donors. *Prot. Pept. Lett.* **18**, 507-517 (2011). IF: 0.964
  69. AS Baghel, R Tandon, G Gupta, A Kumar, RK Sharma, N Aggarwal, A Kathuria, NK Saini, M Bose, AK Prasad, SK Sharma, M Nath, VS Parmar, HG Raj. Characterization of protein acyltransferase function of recombinant purified GlnA1 from *Mycobacterium tuberculosis*: A moon lighting property. *Microbiol. Res.* **166** (8), 662-672 (2011). IF: 3.037
  70. SK Sharma, S Kumar, K Chand, A Kathuria, A Gupta, R. Jain. An update on natural occurrence and biological activity of chromones. *Curr. Med. Chem.* **18**, 3825 – 3852 (2011). IF: 3.249
  71. S Kumar, A Mohr, A Kumar, SK Sharma, R Haag. Synthesis of biodegradable amphiphilic nanocarriers by chemo-enzymatic transformations for the solubilization of hydrophobic compounds. *Int. J. Art. Organ* **34**, 84 - 92 (2011). IF: 1.169
  72. V Kumar, B Gupta, A Khan, R Mosurkal, SK Sharma, VS Parmar, J Kumar, LA Samuelson, K Kumar, AC Watterson. Crosslinking of biocatalytically synthesized organosilicone copolymers for flame retardant applications. *J. Macromol. Sci., Pure and Applied Chem. Pt. A* **48**, 1055 - 1060 (2011). IF: 0.963
  73. M Calderon, MA Quadir, SK Sharma, R Haag. Biomedical applications of dendritic polyglycerols. *Advanced Materials* **22**, 190-218 (2010). IF: 18.96
  74. A Gupta, N Priya, S Jalal, K Chand, HG Raj, VS Parmar, AL DePass, SK Sharma. Specificities of calreticulin transacetylase to acetoxy derivatives of benzofurans: Effect on the activation of platelet nitric oxide synthase. *Biochimie* **92**, 1180-85 (2010). IF: 3.112
  75. N Priya, A Gupta, K Chand, P Singh, A Kathuria, HG Raj, VS Parmar, SK Sharma. Characterization of 4-methyl-2-oxo-1,2-dihydroquinolin-6-yl acetate as an effective antiplatelet agent. *Bioorg. Med. Chem.* **18**, 4085-94 (2010). IF: 2.930
  76. M Husain, V Kumar, R Kumar, NA Shakil, SK Sharma, AK Prasad, CE Olsen, SV Malhotra, EV Ven der Eckyen, K Levon, AL DePass, VS Parmar. Enantioselective biocatalytic reactions on (±)-aryl alkyl ketones by native and modified PPL. *Biotrans.* **28**, 172-84 (2010). IF 0.836
  77. VD Kancheva, L Saso, PV Boranova, A Khan, MK Saroj, MK Pandey, S Malhotra, JZ Nechev, SK Sharma, AK Prasad, MB Georgieva, C Joseph, AL DePass, RC Rastogi, VS Parmar. Structure - activity relationship of dihydroxy-4-methylcoumarins as powerful antioxidants: Correlation between experimental & theoretical data and synergistic effect. *Biochimie* **92**, 1089-1100 (2010). IF: 3.112
  78. R Kumari, S Bansal, G Gupta, S Arora, A Kumar, S Goel, P Singh, P Ponnann, N Priya, TK Tyagi, AS Baghel, S Manral, R Tandon, R Joshi, V Rohil, M Gaspari, E Kohli, YK Tyagi, BS Dwarakanath, D Saluja, S Chatterji, SK Sharma, AK Prasad, RC Rastogi, HG Raj, VS Parmar. Calreticulin transacylase: Genesis, mechanism of action and biological applications. *Biochimie* **92**, 1173-79 (2010). IF: 3.112
  79. S Gupta, MK Pandey, K Levon, R Haag, AC Watterson, VS Parmar, SK Sharma. Biocatalytic approach for the synthesis of glycerol-based nanomicellar self-assembly systems. *Macromol. Chem. Phys.* **211**, 239-244 (2010). IF: 2.495
  80. A Kathuria, A Gupta, N Priya, P Singh, HG Raj, AK Prasad, VS Parmar, and SK Sharma. Specificities of acetoxy derivatives of 3-alkyl-4-methylcoumarins for acetoxy drug: Protein transacetylase and their role in activation of nitric oxide synthase.

- Bioorg. Med. Chem.** **17**, 1550-1556 (2009). IF: 2.930
81. SK Sharma, S Kumar, R Tyagi, EF Barry, J Kumar, AC Watterson, DK Ryan, VS Parmar. Selective recognition of  $\text{Ca}^{2+}$  ions using novel polymeric phenols. **Microchem. J.** **90**, 89-92 (2008). IF: 3.583
  82. MK Pandey, R Tyagi, VB Tucci, V Kumar, B Gupta, SK Sharma, J Kumar, VS Parmar, AC Watterson. Novel nanotechnology platform: Design and synthesis. **Polymer Preprints** **49**(2), 1066-1067 (2008).
  83. AK Prasad, N Kalra, Y Yadav, SK Singh, SK Sharma, S Patkar, L Lange, CE Olsen, J Wengel, VS Parmar. Selective biocatalytic deacylation studies on furanose triesters: a novel and efficient approach towards bicyclonucleosides. **Org. Biomol. Chem.** **5**, 3524-3530 (2007). IF: 3.564
  84. AK Prasad, N Kalra, Y Yadav, R Kumar, SK Sharma, S Patkar, L Lange, J Wengel, VS Parmar. Deacylation studies on furanose triesters using an Immobilized lipase: Synthesis of a key precursor for bicyclonucleosides. **Chemical Communications** 2616-2617 (2007). IF: 6.319
  85. V Kumar, R Kumar, Raunak, Poonam, SK Sharma, AK Prasad, AL Cholli, CE Olsen, VS Parmar. Biocatalytic acylation studies on novel 3-aryl-3-hydroxymethyl-2,3-dihydro-4H-1-benzopyran -4-ones. **Indian J. Chem.** **46B**, 1501-1510 (2007). IF: 0.729
  86. A Kumar, BK Singh, NK Sharma, K Gyanda, SK Jain, YK Tyagi, AS Baghel, M Pandey, SK Sharma, AK Prasad, SC Jain, RC Rastogi, HG Raj, AC Watterson, VS Parmar. Specificities of acetoxy derivatives of coumarins, biscoumarins, flavones, isoflavones and xanthenes for acetoxy drug: protein transacetylase. **Eur. J. Med. Chem.** **42**, 447-455 (2007). IF: 4.519
  87. S Kumar, BK Singh, AK Panday, A Kumar, SK Sharma, HG Raj, AK Prasad, E Van der Eycken, VS Parmar, B Ghosh. A chromone analog inhibits TNF- $\alpha$  induced expression of cell adhesion molecules on human endothelial cells via blocking TNF- $\kappa$ B activation. **Bioorg. Med. Chem.** **15**, 2952-2962 (2007). IF: 2.930
  88. SV Slambrouck, VS Parmar, SK Sharma, B. De Bondt, F Fore, P Coopman, BW Vanhoecke, T Boterberg, HT Depypere, G Leclercq, ME Bracke. Tangeretin inhibits extracellular-signal-regulated kinase (ERK) phosphorylation. **FEBS Letters** **579**, 1665-1669 (2005). IF: 3.623
  89. SK Sharma, M Husain, R Kumar, LA Samuelson, J Kumar, AC Watterson, VS Parmar. Biocatalytic routes towards pharmaceutically important precursors and novel polymeric systems. **Pure and Applied Chemistry** **77**, 209-226 (2005). IF: 2.626
  90. MC Foti, SK Sharma, G Shakya, AK Prasad, G Nicolosi, P Bovicelli, B Ghosh, HG Raj, RC Rastogi, VS Parmar. Biopolyphenolics as antioxidants: Studies under an Indo-Italian CSIR-CNR project. **Pure and Applied Chemistry** **77**, 91-101 (2005). IF: 2.626
  91. A Kumar, BK Singh, R Tyagi, SK Jain, SK Sharma, AK Prasad, HG Raj, RC Rastogi, AC Watterson, VS Parmar. Mechanism of biochemical action of substituted 4-methylcoumarins. Part 11: Comparison of the specificities of acetoxy derivatives of 4-methylcoumarin and 4-phenylcoumarin to acetoxy coumarins: protein transacetylase. **Bioorg. Med. Chem.** **13**, 4300-4305 (2005). IF: 2.930
  92. AC Watterson, VS Parmar, R Kumar, SK Sharma, NA Shakil, R Tyagi, AK Sharma, LA Samuelson, J Kumar, R Nicolosi, T Shea. Indo-U.S. collaborative studies on biocatalytic generation of novel molecular architectures. **Pure and Applied Chemistry** **77**, 201-208 (2005). IF: 2.626
  93. BW Vanhoecke, HT Depypere, AD Beyter, SK Sharma, VS Parmar, DD Keukeleire, ME Bracke. New anti-invasive compounds: Results from the Indo-Belgian screening program. **Pure and Applied Chemistry** **77**, 65-74 (2005). IF: 2.626
  94. Raunak, V Kumar, S Mukherjee, Poonam, AK. Prasad, CE. Olsen, SJC Schäffer, SK Sharma, AC Watterson, W Errington, VS Parmar. Microwave Mediated Synthesis of Spiro-(indoline-isoxazolidines): Mechanistic Study and Biological Activity Evaluation. **Tetrahedron** **61**, 5687-5697 (2005). IF: 2.651
  95. SK Sharma, R Kumar, S Kumar, R Mosurkal, VS Parmar, LA Samuelson, AC Watterson, J Kumar. Influence of EDA- $\pi$  Interactions in drug encapsulation using nanospheres. **Chemical Communications** 2689-2691 (2004). IF: 6.319
  96. SK Sharma, AK Sharma, LA Samuelson, J Kumar, AC Watterson, VS Parmar. Synthesis of Amphiphilic Guanlylated Polymers as Potential Gene Delivery Carriers. **J. Macromol. Sci. (A), Pure & Applied Chemistry** **41**, 1459-1466 (2004). IF: 0.963
  97. SK Sharma, LW McLaughlin. Triplex Mediated Delivery of a Platinum Complex to a Specific DNA Target Site. **J. Inorg. Biochem.** **98**, 1570-1577 (2004). IF: 3.348
  98. D Chen, Meena, SK Sharma, LW McLaughlin. Formation and Stability of a Janus-Wedge Type of DNA Triplex. **J. Am. Chem. Soc.** **126**, 70-71 (2004). IF: 13.858
  99. E Kohli, M Gaspari, HG Raj, VS Parmar, SK Sharma, J van der Greef, R Kumari, G Gupta, Seema, P Khurana, YK Tyagi, AC Watterson and CE Olsen. Acetoxy drug: protein transacetylase of buffalo liver - characterization and mass spectrometry of the acetylated protein product. **Biochimica et Biophysica Acta** **1698**, 55 - 66 (2004). IF: 5.083
  100. VS Parmar, NK Sharma, M Husain, AC Watterson, J Kumar, LA Samuelson, AL Cholli, AK Prasad, A Kumar, S Malhotra, N Kumar, A Jha, A Singh, I Singh, Himanshu, A Vats, NA Shakil, S Trikha, S Mukherjee, SK Sharma, SK Singh, A Kumar, HN Jha, CE Olsen, CP Stove, ME Bracke, MM Mareel. Synthesis, characterization and in vitro anti-invasive activity screening of polyphenolic and heterocyclic compounds. **Bioorg. Med. Chem.** **11**, 913-929 (2003). IF: 2.930
  101. A Kumar, M Husain, AK Prasad, I Singh, A Vats, NK Sharma, SK Sharma, RK Gupta, CE Olsen, ME Bracke, RA Gross, VS Parmar. Synthesis of novel heterocyclic compounds: Routes to pyrazolyl 1,2,3-triazoles and their biological activity evaluation. **Indian J. Chem.** **42B**, 1950-1957 (2003). IF: 0.729
  102. SK Sharma, AK Sharma, R Kumar, VS Parmar, LA Samuelson, J Kumar, AC Watterson. Synthesis of amino functionalized amphiphilic copolymers as potential gene delivery carriers. **Polymer Preprints** **44**(2), 791-792 (2003).
  103. SK Sharma, LW McLaughlin. Oligonucleotide Directed Triplex Formation for the Delivery of a *cis*-Bifunctional Platinated Complex to Dinucleotide Targets. **J. Am. Chem. Soc.** **124**, 9658-9659 (2002). IF: 13.858
  104. A Kumar, S Malhotra, A Vats, Himanshu, SK Singh, SK Sharma, AK Prasad, W Errington, CE Olsen, SC Jain, VS Parmar.

- Chemical transformations on 6-aryl-3-cyano-4-methylthio-pyran-2(*H*)-ones: Synthetic and structural studies on novel N-phenylpyrazoles and N-phenylpyrazolylcoumarins. *Indian J. Chem.* **41B**, 360-367 (2002). IF: 0.729
105. A Bhattacharya, VS Parmar, SK Sharma, S Trikha, SK Singh, AK Prasad. Chemical constituents of *Cephalotaxus* species. *J. Indian Chem. Soc.* **79**, 787-795 (2002). IF: 0.145
  106. A Azim, SK Sharma, CE Olsen, VS Parmar. Lipase catalyzed synthesis of optically enriched  $\alpha$ -haloamides. *Bioorg. Med. Chem.* **9**, 1345-1348 (2001). IF: 2.930
  107. R Kumar, A Azim, V Kumar, SK Sharma, AK Prasad, OW Howarth, CE Olsen, SC Jain, VS Parmar. Lipase-catalysed chemo- and enantioselective acetylation of 2-alkyl/aryl-3-hydroxypropionophenones. *Bioorg. Med. Chem.* **9**, 2643-2652 (2001). IF: 2.930
  108. HG Raj, VS Parmar, SC Jain, S Goel, YK Tyagi, SK Sharma, CE Olsen, J Wengel. Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 6: Hydrolysis of 7,8-diacetoxy-4-methylcoumarin by a novel deacetylase in rat liver microsomes - a simple method for assay and characterisation. *Bioorg. Med. Chem.* **8**, 233-237 (2000). IF: 2.930
  109. HG Raj, VS Parmar, SC Jain, E Kohli, N Ahmad, S Goel, YK Tyagi, SK Sharma, J Wengel, CE Olsen. Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part-7: Assay and characterization of 7,8-diacetoxy-4-methylcoumarin: protein transacetylase from rat liver microsomes based on the irreversible inhibition of cytosolic glutathione S-transferase. *Bioorg. Med. Chem.* **8**, 1707-1712 (2000). IF: 2.930
  110. VS Parmar, SK Sharma, Poonam. Novel constituents of *Gardenia* species. *J. Sci. Ind. Res.* **59**, 893-903 (2000). IF: 0.500
  111. VS Parmar, SK Sharma, ME Bracke, M Mareel CE Olsen, J Wengel. Anti-invasive activity of novel phenolics against solid tumours. *The FASEB Journal* **14**, A1513 (2000). IF: 5.498
  112. SK Sharma, S Roy, R Kumar, VS Parmar. Novel diastereoselective acylation of 4-C-hydroxymethyl-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)- $\alpha$ -D-pentofuranose: effects of lipases and acylating agents on stereoselectivity. *Tetrahedron Letters* **40**, 9145-9146 (1999). IF: 2.193
  113. VS Parmar, SK Sharma, S Malhotra, A Jha, W Errington, OW Howarth, MS Puar. Biocatalytic resolution of racemic 6-acetyl-3,4-dihydro-3-hydroxy-7-methoxy-2,2-dimethyl-2*H*-1-benzopyran. *Indian J. Chem.* **38B**, 1231-1233 (1999). IF: 0.471
  114. HG Raj, VS Parmar, SC Jain, KI Priyadarsini, JP Mittal, S Goel, SK Das, SK Sharma, CE Olsen, J Wengel. Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 5: Pulse radiolysis studies on the antioxidant action of 7,8-diacetoxy-4-methylcoumarin. *Bioorg. Med. Chem.* **7**, 2091-2094 (1999). IF: 2.930
  115. HM Pfundheller, PN Jorgensen, US Sorensen, SK Sharma, M Grimstrup, C Stroch, P Nielsen, G Viswanadham, CE Olsen, J Wengel. Synthesis of novel 3'-C-branched 2'-deoxynucleosides. Incorporation of 3'-C-(3-hydroxypropyl)thymidine into oligodeoxynucleotides. *J. Chem. Soc., Perkin Trans. 1*, 1409-1422 (1998). 3.564
  116. VS Parmar, SC Jain, KS Bisht, NK Sharma, Himanshu, S Gupta, AK Prasad, A Jha, Poonam, S Malhotra, SK Sharma, ME Bracke, W Errington, CE Olsen, J Wengel. Synthesis and anti-invasive activity of novel 1,3-diphenylpropenones. *Indian J. Chem.* **37B**, 628-643 (1998). IF: 0.471
  117. SK Sharma, VS Parmar. Novel constituents of *Tamarix* species. *J. Sci. Ind. Res.* **57**, 873-890 (1998). IF: 0.500
  118. VS Parmar, A Kumar, KS Bisht, S Mukherjee, AK Prasad, SK Sharma, J Wengel, CE Olsen. Novel chemoselective de-esterification of esters of polyacetoxy aromatic acids by lipases. *Tetrahedron* **53**, 2163-2176 (1997). IF: 2.651
  119. VS Parmar, ME Bracke, J Phillippe, J Wengel, SC Jain, CE Olsen, KS Bisht, NK Sharma, A Courtens, SK Sharma, K Vennekeus, VV Marck, SK Singh, N Kumar, A Kumar, S Malhotra, R Kumar, VK Rajwanshi, R Jain and MM Mareel. Anti-invasive activity of alkaloids and polyphenolics *in vitro*. *Bioorg. Med. Chem.* **5**, 1609-1619 (1997). IF: 2.930
  120. E Junquera, J Laynez, M. Menendez, Sk Sharma, S Penades. Thermodynamics of  $\alpha$ -Cyclodextrin-*p*-nitrophenyl glycoside complexes. A simple system to understand the energetics of carbohydrate interactions in water. *J. Org. Chem.* **61**, 6790-6798 (1996). IF: 4.849
  121. VS Parmar, KS Bisht, R Jain, S Singh, SK Sharma, S Gupta, S Malhotra, OD Tyagi, A Vardhan, HN Pati, D Vanden Berghe, AJ Vlietinck. Synthesis, antimicrobial and antiviral activities of novel polyphenolic compounds. *Indian J. Chem.* **35B**, 220-232 (1996). IF: 0.471
  122. HG Raj, S Gupta, G Biswas, S Singh, A Singh, A Jha, KS Bisht, SK Sharma, SC Jain, VS Parmar. Chemoprevention of carcinogen-DNA binding: the relative role of different oxygenated substituents on 4-methylcoumarins in the inhibition of aflatoxin B1-DNA binding *in vitro*. *Bioorg. Med. Chem.* **4**, 2225-2228 (1996). IF: 2.930
  123. VS Parmar, HN Pati, SK Sharma, A Singh, S Malhotra, A Kumar, KS Bisht. Hydrolytic reactions on polyphenolic perpropanoates by porcine pancreatic lipase immobilized in microemulsion-based gels. *Bioorg. Med. Chem. Lett.* **6**, 2269-2274 (1996). IF: 2.454
  124. J Jimenez-Barbero, E Junquera, M Martin-Pastor, SK Sharma, C Vicent, S Penades. Molecular recognition of carbohydrates using a synthetic receptor. A model system to understand the stereoselectivity of a carbohydrate-carbohydrate interaction in water. *J. Am. Chem. Soc.* **117**, 11198-1204 (1995). IF: 13.858
  125. SK Sharma, G Corrales, S Penades. Single step stereoselective synthesis of unprotected 2,4-dinitrophenyl glycosides. *Tet. Lett.* **36**, 5627-30 (1995). IF: 2.193
  126. VS Parmar, SK Sharma, KS Bisht, A Singh, S Aggarwal, R Jain, A Vardhan. Synthetic and mass spectral studies on new 1,3-diphenylprop-2-enones of agrochemical interest. *Russian J. Org. Chem.* **31**, 1839-1848 (1995). IF: 0.603
  127. VS Parmar, A Vardhan, SK Sharma, NK Sharma, KS Bisht. Synthesis, biological activity and solvent-induced shifts in the  $^1\text{H}$  NMR spectra of 2,3-dihydro-4*H*-1-benzopyran-4-ones. *Indian J. Chem.* **33B**, 17-26 (1994). IF: 0.471
  128. VS Parmar, P Taneja, S Singh, R Jain, SK Sharma, PM Boll, J Moller. Novel 2-phenyl-4*H*-1-benzopyran-4-ones from *Tamarix dioica*. *Indian J. Chem.* **33B**, 305-308 (1994). IF: 0.471



129. VS Parmar, KS Bisht, SK Sharma, R Jain, P Taneja, S Singh, O Simonsen, PM Boll. Highly oxygenated bioactive flavones from Tamarix. *Phytochemistry* **36**, 507-511(1994). IF: 3.205
130. VS Parmar, R Jain, SK Sharma, A Vardhan, A Jha, P Taneja, S Singh, BM Vyncke, ME Bracke, MM Mareel. Anti-invasive activity of 3,7-dimethoxyflavone *in vitro*. *J. Pharm. Sci.* **83**, 1217-1221 (1994). IF: 2.59
131. VS Parmar, S Gupta, R Sinha, SK Sharma. Synthesis of some commonly occurring 2-phenyl-4H-1-benzopyran-4-ones: revised structures for three natural products. *Indian J. Chem.* **32B**, 244-256 (1993). IF: 0.471
132. VS Parmar, SK Sharma, A Vardhan, RK Sharma, J Moller, PM Boll. New fragmentation pathways in the Electron Impact Mass Spectrometry of derivatized pyrano 1,3-diphenylprop-2-enones. *Org. Mass Spectrom. (now published as J. of Mass Spectrometry)* **28**, 23-26 (1993). IF: 2.379
133. VS Parmar, AK Prasad, NK Sharma, A Vardhan, HN Pati, SK Sharma, KS Bisht. Lipase-catalysed selective deacetylation of peracetylated benzopyranones. *Chemical Communications* 27-29(1993). IF: 6.319
134. VS Parmar, SK Sharma, A Vardhan, S Gupta, S Malhotra, PM Boll. <sup>13</sup>C Nuclear Magnetic Resonance studies on 3-methylbut-2-enylated 1,3-diphenylprop-2-enones. *Spectrochimica Acta* **48A**, 617-620 (1992). IF: 2.536
135. VS Parmar, SK Sharma, A Vardhan, RK Sharma, S Gupta, S Malhotra, PM Boll. <sup>13</sup>C Nuclear Magnetic Resonance studies on pyrano- and dihydropyrano-1,3-diphenylprop-2-enones. *Magn. Reson. Chem.* **30**, 560-563 (1992). IF: 1.601
136. VS Parmar, SK Sharma, JS Rathore, M Garg, S Gupta, S Malhotra, VK Sharma, S Singh, PM Boll. <sup>13</sup>C Nuclear Magnetic Resonance studies on 1,3-diphenylprop-2-enones. *Magn. Reson. Chem.* **28**, 470-474 (1990). IF: 1.601
137. VS Parmar, S Singh, SK Sharma and S Nauriyal. Solvent-induced chemical shifts by a combination of trifluoroacetic acid and benzene in the PMR spectra of 2H-1-benzopyran-2-ones. *J. Indian Chem. Soc.* **67**, 207-209 (1990). IF: 0.145

#### Articles

1. IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications. *Natural Product Radiance* Vol 3(4), 273-277, July – August 2004.
2. S Gupta, B Schade, S Kumar, M Kumari, S Kumar, C Böttcher, R Haag, S K Sharma. Non-ionic dendronized multi-amphiphilic polymers as nanocarriers for biomedical applications. *NSTI-Nanotech 2013: TechConnect World 2013 Proceedings, Vol. 3*, 308-311 (2013).
3. S Satapathi, P Yadav, M Kumari, L Li, LA Samuelson, J Kumar, SK Sharma. Two-photon active coumarins for high contrast imaging of cancer cells. *Abstracts of Papers, 245th ACS National Meeting & Exposition*, New Orleans, LA, United States, April 7-11, 2013 (2013).

#### Patents:

1. VS Parmar, AK Prasad, HG Raj, M Bose, SK Sharma, R Tandon, A Baghel, A Kathuria, G Gupta, N Aggarwal. "Coumarin compounds for the treatment of mycobacterial infections". *International PCT Application No. PCT/IN2012/000242 dt.* April 04, 2012.

#### Research Guidance

1. **Supervision of awarded / submitted Doctoral Thesis – 15**  
**Mr. Sumit Kumar:** Design and synthesis of 3-(3-chromonyl)acrylic acid derivatives & synthesis of PEG based amphiphilic polymers - April 2009  
**Ms. Anjali Gupta:** Synthesis of nucleic acid building blocks & analogs of naturally occurring bio-active compounds - November 2009  
**Ms. Shilpi Gupta:** Design and synthesis of benzopyrones, guanidylated peptide nucleic acid building blocks, and chemoenzymatic synthesis of glycerol-based polymeric & dendritic architectures - May 2010  
**Ms. Abha Kathuria:** Design and synthesis of oxygen and nitrogen containing heterocyclic compounds as potent anti-platelet and antimicrobial agents - December 2010  
**Ms. Sarah Jalal:** Design & synthesis of novel pyridones & benzopyran-2-ones as potential bio-active compounds & synthesis of glycerol based mixed esters and dendrimer building blocks - March 2011  
**Mr. Karam Chand:** Synthesis of novel pyridones, benzopyrones, and quinolones & SAR study of their anticancer and antiplatelet activities - January 2012.  
**Mr. Amit Kumar:** Development of New Protocols for the Synthesis of Heterocyclic Frameworks Employing Metal-catalysis (Gold, Platinum and Indium) and Multicomponent Reactions – May 2014.  
**Mr. Abdullah Khan:** Design and Synthesis of Novel Benzoxazine, Pyridone, and Quinolone Analogues and Their Biological Activity Evaluation- November 2014.  
**Mr. Shiv Kumar:** Chemo-enzymatic Synthesis of Dendronized Polymeric Architectures for Biomedical Applications and Synthesis of Benzopyrones as Antimicrobial Agents. – August, 2015.  
**Mr. Atul K. Sharma:** Synthesis of Benzoxazine, Pyridone, and Benzopyrone Derivatives and Evaluation of their Biological Activity. September 2015.  
**Ms. Meena Kumari:** Synthesis of Biologically Potent Heterocyclic Compounds and PEG-Glycerol Based Amphiphilic Copolymers for Biomedical Applications - February 2016.  
**Ms. Preeti Yadav:** Benzopyranone and Quinolone Derivatives & Dendritic Architectures: Study of Photophysical and Biological Applications – August 2016  
**Ms. Suchita Prasad:** Non-ionic Amphiphilic Architectures & Benzopyranone Derivatives: Study of Physico-chemical Properties and Biological Applications – July 2017.

<p><b>Mr. Badri Parshad:</b> Chemo-enzymatic Synthesis of Polymeric and Dendritic Architectures for Biomedical Applications &amp; Synthesis of Biologically Potent Heterocyclic Compounds, Thesis submitted, January 2018.</p> <p><b>Ms. Priyanka Manchanda:</b> Design and Synthesis of Kinase Inhibitors, Antimicrobial Agents, and Amphiphilic Architectures for Biomedical Applications, May 2018.</p> <p><b>2. Supervision of awarded M.Phil. dissertations – 2</b></p> <p><b>Mr. Anil Kumar Pandey:</b> Synthesis of novel benzopyran-4-ones (chromones) – November 2005</p> <p><b>Ms. Abha Kathuria:</b> Design and synthesis of novel C-3 substituted 4-methylcoumarins and evaluation of their biological activity - November 2007</p> <p><b>3. Supervision of Doctoral Thesis, under progress – 7</b></p> <p>Mr. Abhishek Kumar Singh, Ms. Rashmi, Ms. Ayushi Mittal, Mr. Parmanand, Mr. Anoop Kumar, Ms. Diksha Verma, Ms. Krishna</p>
<p><b>Projects (Major Grants / Collaborations)</b></p> <ol style="list-style-type: none"> <li><b>Department of Science &amp; Technology (DST-DfG International Collaboration):</b> 2017- 2020. Chemo-enzymatic synthesis of multivalent dendritic architectures for the control of neurodegenerative disorders.</li> <li><b>Science &amp; Engineering Research Board (SERB-DST):</b> January 2016 – December 2018. “Design and Synthesis of Oligoglycerol and PEG based Nanocarriers for Biomedical Applications”.</li> <li><b>Indo-German Science &amp; Technology Center (IGSTC):</b> April 2012 – December 2015. “Chemoenzymatic synthesis and development of biodegradable, structurally persistent core-shell nano-architectures for drug delivery applications”.</li> <li><b>Council of Scientific and Industrial Research (CSIR):</b> Jan. 2012- July. 2015. “Design and Synthesis of 3-(4-Oxo-4H-chromen-3-yl)acrylates as Anti-inflammatory Agents”.</li> <li><b>Defence Research Development Organization (DRDO):</b> June 2011 – March 2015. “Design and Synthesis of Lead Antimicrobial Compounds for Defense Applications”.</li> <li><b>DU-DST Purse Grant:</b> December 2009 – March 2012. Studies on the synthesis of acyloxy polyphenols, the substrates for calreticulin transacylase: Molecular mechanisms of acylation of functional proteins by acyloxy polyphenols utilizing recombinant clones of C, P and N domains of Calreticulin.</li> <li><b>Department of Biotechnology (DBT):</b> December 2005 – December 2010. Design and Synthesis of Novel Peptide Nucleic Acids With Improved Cell Permeability.</li> <li><b>Defence Research Development Organization (DRDO):</b> September 2007 – March 2010. Design and Synthesis of Glycerol Based Building Blocks for Flame Retardant Polymers”.</li> <li><b>Polytechnic University, New York, USA.</b> 2006 – December 2009. Development of reactions and technologies in the generation of novel materials.</li> </ol>
<p><b>Organization of Conferences</b></p> <p><b>Convener:</b> International Conference on Challenges in Carbohydrate Chemistry and Biology, CARBO-XXXI, 14-16 November 2016, Department of Chemistry, University of Delhi.</p> <p><b>Organizing Secretary:</b> DU-JAIST Indo-Japan Symposium on ‘Chemistry of Functional Molecules/Materials’ on 26-27<sup>th</sup> February 2016 at Department of Chemistry, University of Delhi.</p> <p><b>Organizing Convener:</b> 2<sup>nd</sup> Indo-German Workshop on ‘Supramolecular Chemistry’ on 30<sup>th</sup> March 2015 at Department of Chemistry, University of Delhi.</p> <p><b>Organizing Secretary:</b> 20<sup>th</sup> ISCB International Conference on Chemistry and Medicinal plants in Translational Medicine for Healthcare organized by Department of Chemistry, University of Delhi, 1<sup>st</sup> – 4<sup>th</sup> March 2014.</p> <p><b>Organizing Convener:</b> Indo-German Workshop on “New Perspectives for Nano Carriers in Biomedical Applications” on 14<sup>th</sup> January 2013 at Department of Chemistry, University of Delhi.</p> <p><b>Organizing Coordinator:</b> 7th Indo – Italian workshop on “Chemistry and Biology of Antioxidants”. 16th November 2010 – organized by Department of Chemistry, University of Delhi and Embassy of Italy.</p> <p><b>Organizing Coordinator:</b> 4th Indo – Italian Seminar on “Green Chemistry and Natural Products”. 17 November 2010 – organized by Department of Chemistry, University of Delhi and Embassy of Italy.</p> <p><b>Organizing Secretary:</b> International Symposium on trends in drug discovery and development (T3D – 2010). 5 – 8 January 2010, organized by Department of Chemistry, University of Delhi.</p> <p><b>Organizing Secretary:</b> 6th Indo – Italian workshop on “Chemistry and Biology of Antioxidants”. 10 - 11 December 2009 – Organized by Department of Chemistry, University of Delhi and Embassy of Italy.</p> <p><b>Organizing Secretary:</b> 3rd Indo – Italian Seminar on Green Chemistry. 9 December 2009 – organized by Department of Chemistry, University of Delhi and Embassy of Italy.</p> <p><b>Secretary:</b> IUPAC Sponsored Second International symposium on Green / Sustainable Chemistry on 10-13 January 2006 – organized by Department of Chemistry, University of Delhi and Embassy of Italy.</p> <p>Kinase Inhibitors: Promising candidates for cancer control</p>
<p><b>Conference Participation: 95</b></p>

1. **Fourth International Symposium on "Advances in Sustainable Polymers"**, 8-11 January 2018, IIT Guwahati.  
Invited talk: *Fabrication of nanostructures through self-assembly of non-ionic amphiphiles for biomedical applications*  
Poster presentation by
  - i. **Mr. Abhishek Kumar Singh**: Aggregation Behaviors of Non-Ionic Twinned Amphiphiles and Their Application as Biomedical Nanocarriers.
  - ii. **Ms. Rashmi**: Synthesis of Non-ionic Bolamphiphile and Study of its Self-assembly and Transport Behaviors for Drug Delivery Application Glucitol based self-assembling non-ionic amphiphilic architectures for encapsulation of non-polar drugs.**Participation:** Ms. Ayushi Mittal, Mr. Parmanand, Mr. Anoop Kumar, Ms. Diksha Verma, Ms. Krishna
2. **International Conference on Nanomaterials: Initiatives and Applications"**, 9-11 March, 2018, Jiwaji University, Gwalior.  
Self-assembly of non-ionic amphiphiles for biomedical applications.
3. **Symposium on the "Emerging Chemistry and Biology of Carbohydrates" CARBO-XXXII**, 18-20 December 2017, IIT Kharagpur.  
Invited talk: Carbohydrate Based Architectures for Biomedical Applications.
4. **8th Conference of Haridwar ISCA Chapter**, 14-15 October 2017, Nainital, Invited lecture: Kinase Inhibitors: Promising candidates for cancer control
5. **Refresher Course in Chemistry**, 14 June 2017, IIT-ISM Dhanbad, Delivered two lectures: i. Biocatalysts: Modern Tools of Organic Synthesis; ii. Chemo-enzymatic Synthesis of Biocompatible Polymeric and Dendritic Nano-architectures for Biomedical Applications.
6. **23rd ISCBC International Conference (ISCBC-2017)**, 8-10 February, 2017, SRM University, Chennai, Invited talk: Synthesis and Kinase Inhibition Study of Pyridylpyrimidinylaminophenyl Derivatives.
7. **Refresher Course in Chemistry**, 18 January 2017, UGC-Human Resource Development Centre, Jawaharlal Nehru University, Invited lecture: Challenges and Options for Drug Delivery.
8. **DST-INSPIRE Internship Science Camp**, 22<sup>nd</sup> Dec. 2016, SRM University, Delhi – NCR, Invited talk: Challenges in Drug Development.
9. **International Conference on Challenges in Carbohydrate Chemistry and Biology, CARBO-XXXI**, 14-16 November 2016, Department of Chemistry, University of Delhi.  
Poster presentation by Ms. Priyanka Manchanda: *Glucitol based self-assembling non-ionic amphiphilic architectures for encapsulation of non-polar drugs.*
10. **Departmental Seminar**, 26 September 2016, IIT-ISM Dhanbad: Amphiphilic Dendritic Architectures for Biomedical Applications.
11. **TEQIP-II sponsored Short term training Programme on "Recent Trends in Applied Chemical Sciences"** 19 October 2016 Department of Applied Chemistry, SVNIT, Surat.  
Invited talks: i. Chemo-enzymatic Synthesis of Functionalized Polymeric Architectures for Drug Delivery applications; ii. Design and Development of Kinase Inhibitors for Cancer Control
12. **Symposium on advances in sustainable polymers (ASP-16)**, 3-7 August 2016, Kyoto Institute of Technology, Kyoto, Japan, Invited talk: Chemo-enzymatic Synthesis of Perfluoroalkyl-functionalized Dendronized Polymers for Biomedical applications.
13. **DST-INSPIRE Internship Program**, 29th July 2016, Lal Bahadur Singh Samarak Mahavidyalaya, Gohawar (Bijnor, UP), Invited talk as a Mentor: Drug Development From Natural Sources.
14. **FUB-DU Joint Research Workshop on Supramolecular Chemistry and Nanoscale Systems, 8 – 10 June, 2016**, Institut für Chemie und Biochemie, Freie Universität Berlin. Invited talk: Chemo-enzymatic Synthesis of Perfluoroalkyl-functionalized Dendronized Polymers Biomedical applications.
15. **International Conference on Futuristic Materials & Emerging Trends in Chemical Sciences**, February 8-10, 2016 at DBS College, Kanpur University, Kanpur. Invited talk: Chemoenzymatic Synthesis of Dendronized Amphiphilic Polymers for Biomedical Applications.
16. **CABiomass-2016: Catalysis Applied to Biomass - Toward Sustainable Processes and Chemicals**, March 9-11, 2016, UTC, Compiègne, France. Plenary Lecture: Chemo-enzymatic Synthesis of Oligoglycerol Derivatives.
17. **30<sup>th</sup> Carbohydrate Conference (CARBO-XXX)**, December 29-31, 2015 at Pondicherry University, Puducherry. Invited talk: Carbohydrate based amphiphilic dendritic architectures for bio-medical and metal sensing applications.
18. **CPDHE Refresher Program**, 2-3 December 2015, Shimla University, Shimla. Invited talks: i. Glycerol Based Amphiphilic Architectures for Biomedical Applications; ii. Design and Development of Kinase Inhibitors For Cancer Control.
19. **Seminar Lecture**, 1<sup>st</sup> July 2015, Freie University Berlin, Germany. Title: Glycerol Based Value Added Products for Biomedical Applications.
20. **International Workshop on "Biochemistry, Physiology and Pharmacology of Oxidative Stress"**, 2-4 July, 2015 at Sapienza University of Rome, Italy. Invited talk: Chromenone and quinolinone derivatives as potent antioxidant agents.
21. **21<sup>st</sup> ISCBC International Conference on "Current Trends in Drug Discovery and Developments"** 25-28<sup>th</sup> February, 2015 at Central Drug Research Institute, Lucknow. Invited talk: Chemoenzymatic Synthesis of Amphiphilic Polymeric Architectures for Biomedical Applications.
22. **MACRO 2015, International Symposium on Polymer Science and Technology**, 23-26<sup>th</sup> January, 2015 at Indian Association for the Cultivation of Science, Jadavpur, Kolkata. Invited talk: **Non-ionic Dendronized Multiamphiphilic Polymers as Multivalent Nanocarriers for Drug Delivery Applications.**

23. **Second Symposium on Advances in Sustainable Polymers (ASP-15)**, January 21-22, 2015, IIT Guwahati. Invited talk: **Chemoenzymatic Synthesis of Dendronized Amphiphilic Polymers for Biomedical Applications.**
24. **5<sup>th</sup> Asia Oceania Conference on "Green and Sustainable Chemistry"**, 15-17<sup>th</sup> January 2015 at India Habitat Center, Delhi. Invited talk: **Cleaner & Greener Chemo-enzymatic Synthesis of Glycerol Based Value Added Products for Biomedical Applications.**
25. **ISBOC-10, IUPAC's International Symposium on Bio-Organic Chemistry**, 11-15<sup>th</sup> January, 2015 at Indian Institute of Science Education and Research (IISER) Pune, INDIA
- Poster presentation by Mr. Badri Parshad: **Synthesis and Antimicrobial Activity Evaluation of Amides & Quaternary Ammonium Derivatives of Coumarin.**
26. **One Day Lecture Series**, January 9, 2015 at Department of Chemistry, University of Delhi, Delhi. Invited talk: **Chemoenzymatic Synthesis of Dendronized Amphiphilic Polymers for Biomedical Applications.**
27. **29<sup>th</sup> Carbohydrate Conference (CARBO-XXIX)**, December 29-31, 2014 at CIAB, Mohali, Panjab. Invited talk: **"Cleaner & Greener Chemo-enzymatic Synthesis of Glycerol Based Value Added Products for Biomedical Applications".**
28. **David A. Walsh '67 Arts & Science Seminar Series, March 31, 2014 at Clarkson University, Potsdam, NY, USA.** Invited Talk: **Glycerol Based Amphiphilic Polymeric and Dendritic Architectures for Biomedical Applications.**
29. **CABiomass-II: Catalysis Applied to Biomass Toward Sustainable Processes and Chemicals, March 27-28, 2014, UTC, Compiègne, France.** Oral Communication: **Cleaner & Greener Chemo-enzymatic Synthesis of Glycerol Based Value Added Products for Biomedical Applications.**
30. **20<sup>th</sup> ISCB International Conference on Chemistry and Medicinal plants in Translational Medicine for Healthcare**, organized by Department of Chemistry, University of Delhi, 1<sup>st</sup> – 4<sup>th</sup> March 2014.
- Session Chair: SK Sharma
- Poster Presentation:
- Meena Kumari: **Chemo-enzymatic Synthesis and Transport Potential Evaluation of Azido-glycerol Based Amphiphilic Polymeric Materials. (Best poster award).**
  - Preeti Yadav: **Synthesis of Two-Photon Active Cinnamoylcoumarins for High-Contrast Imaging of Cancer Cells.**
  - Suchita Parshad: **Synthesis of Ammonium and Amino Derivative of Pyranocoumarins and Coumarins and Evaluation of Their Antimicrobial activity.**
  - Badri Prashad: **Synthesis and Antioxidant Activity Evaluation of Chromenones.**
- Participation:** Mr. Abdullah Khan, Mr. Shiv Kumar, Mr. Atul K. Sharma, Mr. Amit Kumar, Ms. Priyanka Manchanda, Mr. Abhishek K. Singh
31. **International Conference on Harnessing Natural Resources for sustainable Development – Global Trends** organized by cotton college, Guwahati, Assam on 29-31<sup>st</sup> January 2014.
- Invited Talk:
- Cleaner & Greener Chemo-enzymatic Synthesis of Glycerol Based Polymeric and Dendritic Architectures for Biomedical Applications**
- Poster Presentation:
- Meena Kumari: **Non-ionic Dendronized Multiamphiphilic Polymers as Nanocarriers for Drug Delivery Applications.**
  - Preeti Yadav: **Chemo-enzymatic Synthesis of Glycerol and PEG Based Amphiphilic Dendritic Architectures for Various Biomedical Applications.**
- Participation: Ms. Suchita Prasad, Mr. Badri Parshad, Mr. Atul K. Sharma
32. **International Conference on Challenges in Chemistry and Biology of Carbohydrates CARBO-XXVIII** organized by Association of Carbohydrates Chemist & Technologists, Dehradun, India on 20-22<sup>nd</sup> January 2014
- Oral Presentations:
- Meena Kumari: **Chemo-enzymatic Synthesis and Transport Study of Glycerol Based Amphiphilic Polymeric Materials**
- Poster Presentation:
- Shiv Kumar: **Synthesis of Carbohydrate Conjugates of Pyranocoumarins and Evaluation of Their Antimicrobial Activity**
  - Abdullah Khan: **Abdullah Khan in Dehradun on "Design and Development of "Click" Approach for the Synthesis of Benzoxazine Glycoconjugates and Study of Their Antibacterial Potential"**
- Participation: Ms. preeti yadav, Suchita Prasad, Badri Parshad, Mr. Abhishek k. Singh, Ms. Priyanka Manchanda, Atul K. Sharma
33. **27<sup>th</sup> International Carbohydrate Symposium (ICS27)** organized by Indian Institute of Science, Bangalore, 12-17<sup>th</sup> January 2014.
- Poster Presentation:
- Mr. Shiv Kumar: **Dendronized Multiamphiphilic Nanocarriers for Drug Delivery Applications.**
- Participation: Abhishek K. Singh
34. **Emerging Trends in Glycoscience & Glycotechnology** "(A Satellite Symposium of ICS-27)" organized by Indian Institute of Technology Delhi in Delhi, India on 08-10<sup>th</sup> January 2014.
- Invited Talk: **Glycerol Based Amphiphilic Polymeric and Dendritic Architectures for Biomedical Applications.**
- Poster Presentation:
- Ms. Meena Kumari : **Chemo-Enzymatic Synthesis & Encapsulation Behavior of Amphiphilic Dendritic Polymers for Drug Delivery Applications**
- Participation: Abhishek K. Singh



35. **International Workshop on "Green Initiatives in Energy, Environment and Health"** jointly organized by Gautam Buddh University and University of Delhi at Delhi, India, 02-03 December 2013.  
Poster Presentation:
- Ms Meena Kumari: Cleaner & Greener Chemo-enzymatic Synthesis of Glycerol Based Polymeric & Dendritic Architectures for Drug Delivery Applications.
36. **Nanotech-2013**, National Harbor, Washington DC, USA, 12-16 May 2013.  
Invited Lecture: Non-ionic Dendronized Multiamphiphilic Polymers as Nanocarriers for Biomedical Applications.
37. **KHOJ 13 A National Conference on "Emerging Trends in Chemical Science"** organized by Bharat Institute of Technology (BIT), Meerut, India, 6<sup>th</sup> April 2013.  
Oral paper presentations:
- Mr. Shiv Kumar: Synthesis, Anti-proliferative, and c-Src Kinase Inhibitory Activities of Chromone Derivatives.
  - Mr. Abdullah Khan: Synthesis of Novel 2-Pyridone Derivatives and Evaluation of their Anti-proliferative Activity.
  - Mr. Abhishek K. Singh: Chemo-enzymatic Synthesis of Amphiphilic Dendritic Polymers for Biomedical Applications. **Awarded Best Presentation**
38. **19<sup>th</sup> ISCB International Conference (ISCB-2013)** on "Recent Advances and Current Trends in Chemical and Biological Sciences", jointly organized by Indian Society of Chemists and Biologists, Lucknow (UP) and Mohanlal Sukhadia University, Department of Chemistry, Udaipur (Rajasthan), 2-5<sup>th</sup> March 2013.  
Invited Talk: Bio-catalytic Synthesis of Amphiphilic Polymeric and Dendritic architectures for Biomedical Applications.  
Poster Presentations:
- Mr. Shiv Kumar and Ms. Meena Kumari: Synthesis, Anti-proliferative, and c-Src Kinase Inhibitory Activities of Chromone Derivatives.
  - Ms. Preeti Yadav and Ms. Suchita Prasad: Synthesis, Antiproliferative, and c-Src kinase Inhibitory Activities of Chromen-2-one Derivatives.
- Participation: Mr. Atul K. Sharma, Mr. Badri Parshad, Mr. Abhishek K. Singh
39. **"Emerging Trends in Development of Drugs and Devices"** jointly organized by Department of Chemistry, University of Delhi, Delhi and three National Science Academies of India, 21-23<sup>rd</sup> January 2013.  
Poster Presentations:
- Ms. Meena Kumari and Mr. Abdullah Khan: Synthesis of Novel 2-Pyridone Derivatives and Evaluation of their Anti-proliferative Activity.
  - Ms. Preeti Yadav: Two-photon active coumarin derivatives for high-contrast imaging of cancer cells.
  - Ms. Suchita Prasad and Ms. Preeti Yadav: Synthesis, Antiproliferative, and c-Src kinase Inhibitory Activities of Chromen-2-ones.
- Participation: Mr. Shiv Kumar, Mr. Atul K. Sharma, Mr. Badri Parshad, Ms. Priyanka Manchanda, Mr. Abhishek K. Singh
40. **Indo-German Workshop** on "New Perspectives for Nano-Carriers in Biomedical Applications" organized by Department of Chemistry, University of Delhi, Delhi on 14<sup>th</sup> January 2013.  
Poster presentation by:  
Mr. Shiv Kumar, Ms. Meena Kumari and Mr. Abhishek K. Singh: Chemo-Enzymatic Synthesis of Amphiphilic Polymeric and Dendritic Architectures for Biomedical Applications.  
Participation: Mr. Abdullah Khan, Mr. Atul K. Sharma, Mr. Badri Parshad, Ms Preeti Yadav, Ms Suchita Prasad, Ms Priyanka Manchanda
41. **National Carbohydrate Conference (CARBO-XXVII)** at CFTRI Mysore, Karnataka, 13-15 December 2012.  
Invited talk: Glycerol Based Polymeric and Dendritic Architectures for Biomedical Applications.
42. **2012 Sukant Tripathy Annual Memorial Symposium**. December 7, 2012 at the University of MA Lowell.  
Invited talk: Chemo-enzymatic Synthesis of Biocompatible Polymeric and Dendritic Architectures for Drug Delivery Applications.
43. **16<sup>th</sup> Sigma-Aldrich Organic Synthesis Meeting**, Spa, Belgium, 6-7<sup>th</sup> December 2012.  
Poster Presentation:  
Mr. Amit Kumar: A Diversity-Oriented Approach to Spiroindolines: Post-Ugi Gold-catalyzed Diastereoselective Domino Cyclization.
44. **Salzberg Chemistry Seminar**. The City College of New York, NY, USA, 12 November 2012.  
Invited lecture: Bio-catalytic Synthesis of Amphiphilic Polymeric and Dendritic Architectures for Biomedical Applications.
45. **University of Rhode Island (URI) College of Pharmacy's International Conference**, "Frontiers in Pharmaceutical Sciences: Global Perspectives," Friday through Sunday, September 28-30, 2012.  
Invited talk: Ammonium Derivatives of Chromenones and Quinolones as Lead Antimicrobial Agents.
46. **Organic Group Seminar**, University of Massachusetts Lowell, 14 September 2012.  
Invited lecture: Biocatalysts: Modern Tools of Organic Synthesis.
47. **13<sup>th</sup> Belgian Organic Synthesis Symposium (BOSS XIII)**, KU Leuven, Belgium 15-20<sup>th</sup> July 2012.  
Participation: Mr. Amit Kumar
48. **International Conference on Advances in Applied Chemical Sciences and Innovative Materials**. IIT, Delhi on 10-12 August 2011.  
Invited talk: "Novel Bio-catalytic Methods for the Synthesis of Biocompatible Polymeric / Dendritic Architectures".
49. **National Workshop on "Carbohydrate based Chemical Industry"**, in Hindi. At National Chemical Laboratory (NCL), Pune, on 17-18 August 2011.

Invited talk: Biocatalytic Synthesis of Glycerol Based Novel Amphiphilic Polymers and Dendritic Architectures.

50. **Second International Conference on Holistic Medicine (ICHM-2011)**, Institute for Holistic Medical Sciences, Kottayam, Kerala, India on 10-13 September 2011.

Invited Talk: Synthesis and evaluation of anticancer and Src kinase inhibitory activities of platinated nucleic acids and heterocyclic compounds.

51. **One day National Workshop on Recent Trends in Chemistry - 2011 (RTC-2011)**, Department of Chemistry, Deenbandhu Chhotu Ram University of Science and Technology, Murthal (Haryana) on 29th September 2011.

Invited talk: "Biocatalysts: Modern Tools of Organic Synthesis".

52. **CPDHE Refresher Course, Department of Chemistry, University of Delhi, December 1 - 22, 2011.** *Recent Advances in Methods of DNA Synthesis and Gene Modification.*

53. **"Conclave of Scientists"** Organized by Zaheer Science Foundation, Delhi, on 26-29 November 2010.

Invited talk: Biocatalytic Synthesis of Polymeric Materials for Drug & Gene Delivery Applications.

54. **JAIST, Komatsu Japan**, 9<sup>th</sup> March 2010.

Invited talk: Design and Synthesis of Polymeric and Dendritic Architectures for Drug Delivery Applications.

55. **CARBO XXV- Silver Jubilee Conference of Association of Carbohydrate Chemists and Technologists, India.** Organized by ACCTI and Himachal Pradesh University, Shimla on 11-13 November 2010.

Invited lecture: Novel Bio-catalytic Methods for the Synthesis of Biocompatible Polymeric / Dendritic Architectures.

56. **Topics in Supramolecular Chemistry.** Organized by Katholieke Universiteit Leuven, Belgium on 23-27 June 2010.

Invited lecture: Design and development of novel biocatalytic method for the synthesis of polymeric/ dendrimeric architectures.

57. **UGC-SAP sponsored 'National Conference on Nanomaterials & Coordination Chemistry'.** Organized by Department of Chemistry, Manipur University, Canchipur, Imphal on 26-27 March 2010.

Invited lecture: Biocatalytic synthesis of polymeric materials for drug delivery applications.

58. **International Seminar on current trends in pharmaceutical research: focus on orphan diseases.** Organized in Patna by NIPER, Hajipur C/o Rmrims, Patna in collaboration with Department of Chemistry, University of Delhi on 10 January 2010.

Invited lecture: Design and synthesis of polymeric materials for drug delivery Applications.

59. **T3D -2010** International Symposium on trends in drug discovery and development. Organized by Department of Chemistry, University of Delhi, on 5-8 January 2010.

Poster Presentations:

i. Ms. Anjali Gupta: Specificities of Calreticulin Transacetylase to acetoxy derivatives of benzofurans. **Awarded Best Poster**

ii. Mr. Karam Chand: Characterization of acetoxy quinolones as an effective antiplatelet agent.

iii. Ms. Abha Kathuria: Chromen-2-ones, quinolin-2-ones and chromen-4-ones as lead antimicrobial compounds.

iv. Ms. Shilpi Gupta: Biocatalytic synthesis of PEG based conjugated polymer dendrimer architectures for drug delivery applications.

v. Ms. Sarah Jalal: Chemoenzymatic approach for the synthesis of valuable triacyl glycerol based dendritic blocks.

60. **University of Rhode Island, USA 5<sup>th</sup> May 2009.**

Invited lecture: DNA Targeting to Control Abnormal Gene Activity.

61. **6<sup>th</sup> Indo -Italian workshop on "Chemistry and Biology of Antioxidants".** Organized by Department of Chemistry, University of Delhi and Embassy of Italy on 10-11 December 2009.

Poster Presentations:

i. Ms. Anjali Gupta: Specificities of Calreticulin Transacetylase to acetoxy derivatives of benzofurans.

ii. Mr. Karam Chand: Characterization of acetoxy quinolones as an effective antiplatelet agent.

62. **3<sup>rd</sup> Indo - Italian Seminar on Green Chemistry.** Organized by Department of Chemistry, University of Delhi and Embassy of Italy on 9th December 2009.

Poster presentation:

Ms. Shilpi Gupta: Chemo-enzymatic method for the synthesis of polymer - dendrimer conjugates.

63. **5<sup>th</sup> International Conference on Biopesticides: Stakeholders Perspectives.** Organized by society for promotion and innovation of biopesticides and The Energy and Resource Institute, New Delhi on 26-30 April 2009.

64. **Indo-French Symposium on "Biomolecular Chemistry".** Organized by Department of Chemistry, University of Delhi on 4 March 2009.

Poster Presentation:

Ms. Abha Kathuria: Specificities of acetoxy derivatives of 3-alkyl-4-methyl coumarin for acetoxy drug: Protein transacetylase and their role in activation of Nitric Oxide Synthase.

65. **Indo - German Symposium on "Supramolecular Chemistry".** Organized by Department of Chemistry, University of Delhi on 3<sup>rd</sup> March 2009.

Invited Lecture: Biocatalytic synthesis of glycerol based novel amphiphilic polymers.

Poster Presentations:

1. Mr. Sumit Kumar: Polyglycerol - PEG based dendritic architectures for drug delivery applications.

2. Ms. Sarah Jalal: A novel synthesis of aliphatic monomers having ester/ ether linkage for the synthesis of dendritic polyglycerol. A new versatile biocompatible material, for industrial and biomedical application.
66. **Indo - Danish symposium on "Bioorganic Chemistry"**. Organized by Department of Chemistry, University of Delhi on 2nd March 2009.
67. **DU - NERI (AU) workshop on Atmospheric Science and Climate change**. Organized by Department of Chemistry, University of Delhi on 27-28 February 2009.
68. **ISCB - 2009**, 13<sup>th</sup> ISCB International Conference on Interplay of Chemical and Biological Sciences: Impact on health and Environment. Organized by Department of Chemistry, University of Delhi on 26 February - 1 March 2009.  
Poster presentations:
  1. Ms. Sarah Jalal: Design and synthesis of novel coumarin-3-carboxamide as potential bioactive compounds.
  2. Ms. Anjali Gupta: Synthesis of novel quinolin-2-ones and evaluating their activity for acetoxy drug: Protein transacetylase and their role in activation of NOS platelet aggregation activity.
  3. Ms. Abha Kathuria: Specificities of acetoxy derivatives of 3-alkyl-4-methyl coumarin for acetoxy drug: Protein transacetylase and their role in activation of Nitric Oxide Synthase.
  4. Mr. Karam Chand: Synthesis of novel quinolin-2-ones as potential bioactive compounds.
69. **Indo-Japanese Seminar on Polymeric Advanced materials**. Organized by Department of Chemistry, University of Delhi on 26 February 2009.
70. **National Seminar on "Open Source Drug Discovery"**. Organized by Department of Chemistry, University of Delhi and CSIR (India), on 26 February 2009.
71. **Indo-US Symposium on Trends in Chemical Biology**. Organized by Department of Chemistry, University of Delhi, on 25 February 2009.
72. **4<sup>th</sup> Indo-Italian workshop on Chemistry and Biology of Antioxidants**. Organized by Department of Chemistry, University of Delhi and Embassy of Italy on 7 December 2008.  
Invited lecture: Antioxidant activity profile of various classes of organic Compounds.  
Poster presentations:
  - i. Ms. Abha Kathuria: Specificities of acetoxy derivatives of 3-alkyl-4-methyl coumarin for acetoxy drug: Protein transacetylase and their role in activation of Nitric Oxide Synthase.
  - ii. Mr. Sumit Kumar Chemoenzymatic route to polyglycerol - PEG based dendritic structures for drug delivery applications.
  - iii. Ms. Anjali Gupta: Synthesis of novel quinolin-2-ones and evaluating their activity for acetoxy drug: Protein transacetylase and their role in activation of NOS platelet aggregation activity.
  - iv. Mr. Karam Chand Synthesis of novel quinolin-2-ones as potential bioactive compounds.
73. **Indo-Italian Seminar on Green Chemistry and Natural Products**. Organized by Department of Chemistry, University of Delhi and Embassy of Italy, on 5-6 December 2008.  
Poster presentation:
 

Ms. Shilpi Gupta and Mr. Sumit Kumar: Chemo - enzymatic synthesis of PEG - Glycerol based Amphiphilic Polymers.
74. **Recent advances in chemical sciences**. P.G. Department of Chemistry, Government Dungar College, University of Bikaner, Bikaner on 3-5 October 2008.  
Invited lecture: Recent Trends in targeting DNA and controlling abnormal Gene Delivery.  
Poster presentations:
  - i. Ms. Shilpi Gupta: Chemo - enzymatic synthesis of PEG - glycerol based amphiphilic polymers. – **Awarded Best Poster**
  - ii. Ms. Anjali Gupta: Synthesis of analogs of benzofuran-3-ones and their potential as antioxidants.
75. **3<sup>rd</sup> Indo -Italian workshop on Chemistry and Biology of antioxidants**. Organized by Department of Chemistry, University of Delhi, Embassy of Italy and CSIR (India) on 28 -30 November 2007.  
Poster presentations:
  - i. Mr. Karam Chand: Synthesis of novel thio coumarins.
  - ii. Ms. Anjali Gupta: Synthesis of analogs of benzofuran-3-ones and their potential as antioxidants.
  - iii. Ms. Abha Kathuria: Synthesis of novel C-3 substituted 4-methylcoumarins and evaluation of their Transacetylase activity.
76. **National Seminar on Green Chemistry and Natural Products**. Organized by Department of Chemistry, University of Delhi, on 26-27 Nov. 2007.  
Main lecture -Design and synthesis of polymers as drug delivery agents: A green approach.  
Poster presentations:
  - i. Mr. Sumit Kumar, Shilpi Gupta: Chemo -enzymatic synthesis of Peg -glycerol based amphiphilic polymers.
  - ii. Ms. Sarah Jalal: Synthesis of dendritic polyglycerol : A new versatile biocompatible material for industrial and biomedical application.
77. **International seminar on Frontiers in Polymer Science and Technology**. Organized by Jadavpur University, Kolkatta and Tezpur University, Assam (India), on (POLY-2007) on 1-3 November 2007.  
Oral Presentation -Design and development of polymer materials as drug delivery agents.
78. **National seminar on emerging trends in Supramolecular Research**. Organized by Department of Chemistry, Gujarat

University (Ahmedabad).

Invited Lecture: Novel approaches to molecular recognition, on 30-31 March 2007. Poster Presentations:

Biocatalytic synthesis of novel flame retardants silicone based supramolecules.

- i. Mr. Karam Chand: Design and synthesis of chromones and evaluation of their anti-inflammatory activity.
- ii. Ms. Sarah Jalal: Synthesis of Dendritic Polyglycerol : A new versatile Biocompatible material for Industrial and Biomedical application.

79. **International Conference on Advances in Drug Discovery Research.** Organized by CDRI and Department of Chemistry, Aurangabad on 24-26 February 2007.

Invited Lecture: Synthesis of some combinational heterocycles and their biological evaluation.

Poster Presentation:

Mr. Sumit Kumar: Design and synthesis of chromones and evaluation of their anti-inflammatory activity.

80. **International Symposium on Polymer Therapeutics (ISPT -2007).** Organized by Institute of Chemistry and Biochemistry Freie Universität, Berlin, on 19-20 February 2007.

81. **9<sup>th</sup> CRSI -National symposium in Chemistry (NSC-9).** Organized by Department of Chemistry, University of Delhi on 1-4 February 2007.

Poster presentations:

Mr. Sumit Kumar: Biocatalytic synthesis of novel copolymers and silicones - based advanced materials.

Microwave mediated synthesis spiro-(Indoline -Isooxazolidines) and their fluorinated analogs.

82. **Carbo XXI -Recent developments in Carbohydrate Chemistry.** Organized by Department of Chemistry, University of Delhi on 26-29 November 2006.

Poster presentations:

Ms. Sarah Jalal & Ms. Abha kathuria: Development of Biocatalytic routes towards efficient manipulation of hydroxyl groups in glycerol for commodity chemicals.

83. **SYRaCuSe Chemistry.** Organized by Department of Chemistry, Syracuse University, on 15 June 2006.

Invited Lecture: Triplex mediated delivery of Platinum complexes to specific DNA target site.

84. **IUPAC Sponsored Second International symposium on Green / sustainable Chemistry.** Organized by Department of Chemistry, University of Delhi, on 10-13 January 2006.

Poster Presentation:

Mr. Sumit Kumar: Development of synthetic methodology for the synthesis of N,N,N',N'-dimethyl dioctyl hexyl ethoxy malonamide: A promising extractant in fuel reprocessing.

85. **Indo-Italian workshop on chemistry and Biology of Antioxidants.** Organized by Department of Chemistry, Embassy of Italy and CSIR (India) on 8-9 January 2006.

86. **XIX Carbohydrate Conference.** Organized by Chemistry Division - Forest Research Institute, Dehradun and ACCT (India) on 1-3 December 2004.

Invited lecture: Novel Carbohydrate Architectures and Applications.

87. **Biomolecular Chemistry -ISBOC -7.** Organized by University of Sheffield, UK on 27 June - 1 July 2004.

Symposium: Biothermodynamics encapsulation of hydrophobic drugs using polymeric nanospheres.

88. **ICOB - 4 and ISCNP – 24.** IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications. Organized by Department of Chemistry, University of Delhi on 26-31 January 2004.

Invited lecture: Biocatalytic routes towards pharmaceutically important precursors and drug delivery agents.

89. **National Meeting and Exposition Program, 226<sup>th</sup> ACS National Meeting, New York.** Organized by American Chemical Society, New York, on 7-11 september 2003.

General Paper on Polymer synthesis and characterization: Synthesis of amino functionalized amphiphilic copolymers as potential gene delivery Carriers.

90. **Fifth IUPAC International symposium on Bio -organic chemistry. ISBOC - 5.** Organized by NCL, Pune, on 30 January - 4 February 2000.

Poster Presentation: Novel diastereoselective acylation of 4-(-hydroxy-methyl-1,2-o-(1-methyl ethylidene)-3-o-(phenyl methyl)- $\alpha$ -D-pentofuranose.

91. **International Symposium on trends in medicinal Chemistry and Biocatalysis.** Organized by Department of Chemistry, University of Delhi, on 26-29 January 2000.

Short Lecture: Lipase: Modern tools of selective organic synthesis.

92. **Indo - Russian ILTP seminar on trends in chemical sciences.** Organized by DST, Department of Chemistry, (University of Delhi) and Russian Academy of Sciences (Moscow), on 24-25 January 2000.

Lecture title: Facile lipase-catalysed diastereoselective acylation of bis -hydroxymethyl furano sugar in organic solvent.

93. **37<sup>th</sup> Iupac Congress -Frontiers in Chemistry: Molecular basis of the life Sciences.** 27<sup>th</sup> GDCH general meeting. Organized by Department of Chemistry, Berlin (Germany), on 14-19 August 1999.



<p>94. <b>First University - Industry interaction meet on Lipase research: needs and components.</b> Organized by Department of Microbiology, University of Delhi, South campus on 20-21 May 1999. Invited lecture: Lipase catalysed manipulation of hydroxyl groups of carbohydrates and synthesis of modified nucleosides.</p> <p>95. <b>First National Symposium on Green Chemistry.</b> Organized by Department of Chemistry, University of Delhi, on 11-13 January 1999.</p> <p>Poster presentations:</p> <p>a) Resolution of a novel (<math>\pm</math>)-4-(1-chloroethyl)-7-hydroxy coumarin: The Green way.</p> <p>b) Biocatalytic resolution of chroman-3-ols.</p> <p>c) A Facile lipase-catalysed regioselective acetylation of bis -hydroxy methyl furano sugar in organic synthesis.</p> <p>96. <b>XIII Carbohydrate conference.</b> Organized by Chemistry division -Forest Research Institute, Dehradun and ACCT (India) on 19-20 November 1998. Invited Lecture: Chemo -enzymatic manipulations of hydroxyl groups of pentoses and polyols and synthesis of modified nucleosides.</p> <p>97. <b>National seminar on perspective in Interfacial areas of Chemistry and Biology.</b> Organized by Department of Chemistry, University of Delhi on 20-22 January 1998,</p> <p>98. <b>International symposium on recognition processes.</b> Organized by RSC, University of Birmingham on 24-29 July 1994.</p>
<b>Total Publication Profile</b>
<p><b>In Indexed/ Peer Reviewed Journals</b></p> <p>Articles published: 121</p> <p>Review articles published: 14</p> <p>Patents: 1</p>
<b>Collaborators</b>
<p><b>Professor Rainer Haag</b>, Freie Universitat Berlin, Germany</p> <p><b>Professor Jayant Kumar</b>, University of Massachusetts, Lowell, USA</p> <p><b>Professor K. Parang</b>, Chapman University, Irvine, CA, USA</p> <p><b>Professor Hemant K. Gautam</b>, IGIB, Delhi, India</p> <p><b>Professor Luciano Sasso</b>, Institute of Pharmacology, Sapienza University, Rome, Italy</p> <p><b>Dr. Praveen Vats</b>, DRDO-DIPAS, New Delhi, India</p>
<b>Other Details</b>
<b>Member Reviewers committee of, Elsevier, Wiley, ScholarOne, and many other journals.</b>

(Professor Sunil K. Sharma)