




Title	Prof.	First Name	Sunil	Last Name	Sharma	Photograph
Designation		Professor				
Department		Chemistry				
Address (Campus)		North Campus, University of Delhi, Delhi - 110007				
(Residence)						
Phone No (Campus)		91-11-2766 6646 Ext. 191				
Fax		-				
Email		sk.sharma90@gmail.com ; sksharma@chemistry.du.ac.in				
Web-Page		http://www.du.ac.in/du/uploads/Faculty%20Profiles/Chemistry/Chemistry_Sunil_Sharma.pdf				
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		Reader/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 platinum 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 glycochane synthesis		
Research Interests / Specialization						
Organic synthesis, Bio-catalysis, Chemistry of natural products, Nucleic acid chemistry, Polymer synthesis, and Nanotechnology						
Administrative Assignments						
July 2021 – July 2023: Special Invitee, Departmental Research Committee, Department of Chemistry, University of Delhi, Delhi April 2021 – March 2023: Provost, Jubilee Hall Hostel, University of Delhi, Delhi Dec. 2020 – Dec. 2022: VC Nominee, Departmental Research Committee, Department of Geology, University of Delhi, Delhi. Feb. 2020 – Feb. 2021: University Representative on the Governing Body of Rajdhani College, University of Delhi, Delhi. Feb. 2020 – Feb. 2021: University Representative on the Governing Body of Shyama Prasad Mukherji College, University of Delhi, Delhi. Feb. 2019 – Feb. 2020: Treasurer & University Representative on the Governing Body of Rajdhani College, University of Delhi, Delhi. Feb. 2019 – Feb. 2020: Treasurer & University Representative on the Governing Body of Shyama Prasad Mukherji College, University of Delhi, Delhi. March 2017 – Sep. 2018: Member, Departmental Research Committee, Department of Chemistry, University of Delhi, Delhi 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

- 2017** C.G. Merchant Memorial Award-2017 for contribution to Carbohydrate research.
- 2016** An article entitled 'Biomedical applications of dendritic polyglycerols' published in the journal *Advanced Materials* **22**, 190-218 (2010), has been listed among the top ten most cited articles from India in the 'International Comparative Performance of India's Research Base (2009-2014)', 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: Cumulative Impact= 637.698; Avg. Impact: 4.087; Citations: 4195; h-Index: 33; i10-Index: 109

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

Chem. Soc. Rev. [1, IF: 54.564]: **45**, 6855 (2016);

Advanced Materials [1, IF: 30.849]: **22**, 190 – 218 (2010);

J. Am. Chem. Soc. [3, IF: 15.419]: **126**, 70 – 71 (2004); **124**, 9658 – 9659 (2002); **117**, 11198-204 (1995);

Angew Chem. Int. Ed. [1, IF: 15.336]: **51**, 9572 - 9575 (2012);

Small [2, IF: 13.281]: **9**, 894 – 904 (2013); **14**, 1800796 (2018)

ChemSusChem [1, IF: 8.928]: **7**, 379 – 390 (2014);

J. Med. Chem. [1, IF: 7.446]: **54** (12), 4147 – 4159 (2011);

Int. J. Biological Macromol. [1, IF: 6.953]: **181**, 653 – 671 (2021)

The Chemical Record [1, IF: 6.771]: **16** (1), 73 – 83 (2016);

Eur. J. Med. Chem. [1, IF: 6.514]: **42**, 447-455 (2007);

Chem. Commun. [5, IF: 6.222]: **49**, 6803 – 05 (2013); **48**, 10916 – 18 (2012); 2616 – 2617 (2007); 2689 – 2691 (2004); 27 – 29 (1993);

Org. Lett. [1, IF: 6.005]: **15**, 1874 – 77 (2013);

Int. J. Pharmaceutics [1, IF: 5.875]: **580**, 119212 (2020);

Applied Catalysis A: General [1, IF: 5.706]: **601**, 117529 (2020);

Polymer Chem. [2, IF: 5.582]: **7** (4), 887 – 898 (2016); DOI: 10.1039/D0PY01040E (2020);

Microbiol. Res. [1, IF: 5.415]: **166**(8), 662 – 672 (2011);

Bioorg. Chem. [2, IF: 5.275]: **40**, 131– 136 (2012); **53**, 75-82 (2014);

The FASEB Journal [1, IF: 5.191]: **14**, A1513 (2000);

J. Mat. Chem. B [1, IF 5.047]: **1**, 3569 – 3577 (2013);

Macromol. Bioscience [1, IF: 4.979] **18**, 1800019(2018),

Microchem. Journal [1, IF: 4.821]: **90**, 89 – 92 (2008);

J. Org. Chem. [1, IF: 4.745]: **61**, 6790 – 6798 (1996);

Eur. Polymer Journal [3, IF: 4.596] **69**, 416 – 428 (2015); **80**, 158 – 168 (2016); **109**, 506 – 522 (2018)

Chemistry – An Asian Journal [1, IF 4.568]: **12**, 1796 – 1806 (2017);

Curr. Med. Chem. [2, IF: 4.530]: **18**(25), 3758 – 3824 (2011); **18**(25), 3825 – 3852 (2011);

Polymers (MDPI) [1, IF: 4.430] **8**, 311 (2016); **12**, 1421 (2020)

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J. Photochem. Photobiol. A: Chemistry [1, IF: 4.291] **280**, 39 – 45 (2014);

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150. Stimuli-responsive Non-ionic Gemini Amphiphiles for Drug Delivery Applications Rashmi, Abhishek K. Singh, Katharina Achazi, Svenja Ehrmann, Christoph Böttcher, Rainer Haag and Sunil K. Sharma. *Polymer Chemistry*, ISSN: 1759 – 9954, 11, 6772-6782(2020), DOI: 10.1039/d0py01040e. IF: 5.582
149. Regioselective synthesis of arylsulfonyl heterocycles from bromoallyl sulfones via sequential formal vinylic substitution reaction and intramolecular Heck coupling reaction. Deepak Yadav, Krishna, Sunil K. Sharma, Rajeev Mennon. *Org. Biomol. Chem.*, ISSN: 1477 – 0520, 18, 7188 (2020), DOI: 10.1039/D0OB01623C. IF: 3.490
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146. Non-ionic PEG-Oligoglycerol Dendron Conjugated Nano-carriers for Transdermal Delivery. Rashmi,Fatemeh Zabihi, Abhishek K. Singh, Katharina Achazi, Boris Schade, Sarah Hedtrich, Rainer Haag, Sunil K. Sharma. *Int. J. Pharmaceutics*, ISSN: 0378-5173, 580, 119212 (2020) DOI: org/10.1016/j.ijpharm.2020.119212. (IF: 5.875)
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135. Aggregation behaviour of non-ionic twinned amphiphiles and their application asbiomedicalnanocarriers, Abhishek K Singh, BNS Thota, B Schade, K Achazi, Abdullah Khan, C Böttcher, S K Sharma, R Haag, *Chemistry – An Asian Journal*, ISSN:1861-471X, (2017),12, 1796-1806, DOI: 10.1002/asia.201700450R1. (IF: 4.568)
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125. Synthesis and Antibacterial Activity Screening of Quaternary Ammonium Derivatives of Triazolyl pyranochromenones, Preeti Yadav, B Kumar, H K Gautam, S K Sharma *J. Chem. Sci.*, ISSN: 0974-3626, (2017), 129 (2), 211-222, DOI 10.1007/s12039-016-1214-x. (IF: 1.573)
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 4. ¹³C Nuclear Magnetic Resonance studies on 3-methylbut-2-enylated 1,3-diphenylprop-2-enones, V S Parmar, S K Sharma, A Vardhan, S Gupta, S Malhotra, P M Boll, *Spectrochimica Acta*, ISSN: 1386-1425, (3.232),48A, 617-620, doi.org/10.1016/0584-8539(92)80054-Z. (IF: 4.098)
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Articles

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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:

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Research Guidance

Supervision of awarded / submitted Doctoral Thesis – 19

19. **Ms. Ayushi Mittal:** Fabrication of Lipase Mediated Nanocarriers for Biomedical Applications & Synthesis of Graphene based Heterogeneous Catalyst for Organic Transformations (Thesis submitted: July 2021)
18. **Ms. Rashmi:** Design and Synthesis of Non-ionic Amphiphilic Architectures as Nano-transporters (February 2021).
17. **Mr. Deepak Yadav:** Unsaturated sulfones as versatile building blocks for carbocyclic and heterocyclic construction (Thesis submitted in joint supervision: August 2020).
16. **Abhishek K. Singh:** Synthesis of Glycerol and Oligoglycerol Based Amphiphilic Architectures for Biomedical Applications, July 2018.
15. **Ms. Priyanka Manchanda:** Design and Synthesis of Kinase Inhibitors, Antimicrobial Agents, and Amphiphilic Architectures for Biomedical Applications, May 2018.
14. **Mr. Badri Parshad:** Chemo-enzymatic Synthesis of Polymeric and Dendritic Architectures for Biomedical Applications & Synthesis of Biologically Potent Heterocyclic Compounds, Thesis submitted, January 2018.
13. **Ms. Suchita Prasad:** Non-ionic Amphiphilic Architectures & Benzopyranone Derivatives: Study of Physico-chemical Properties and Biological Applications – July 2017.
12. **Ms. Preeti Yadav:** Benzopyranone and Quinolone Derivatives & Dendritic Architectures: Study of Photophysical and Biological Applications – August 2016
11. **Ms. Meena Kumari:** Synthesis of Biologically Potent Heterocyclic Compounds and PEG-Glycerol Based Amphiphilic Copolymers for Biomedical Applications - February 2016.
10. **Mr. Atul K. Sharma:** Synthesis of Benzoxazine, Pyridone, and Benzopyrone Derivatives and Evaluation of their Biological Activity. September 2015.
9. **Mr. Shiv Kumar:** Chemo-enzymatic Synthesis of Dendronized Polymeric Architectures for Biomedical Applications and Synthesis of Benzopyrones as Antimicrobial Agents. – August, 2015.
8. **Mr. Abdullah Khan:** Design and Synthesis of Novel Benzoxazine, Pyridone, and Quinolone Analogues and Their Biological Activity Evaluation- November 2014.
7. **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.
6. **Mr. Karam Chand:** Synthesis of novel pyridones, benzopyrones, and quinolones & SAR study of their anticancer and antiplatelet activities - January 2012.
5. **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
4. **Ms. Abha Kathuria:** Design and synthesis of oxygen and nitrogen containing heterocyclic compounds as potent anti-platelet and antimicrobial agents - December 2010
3. **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
2. **Ms. Anjali Gupta:** Synthesis of nucleic acid building blocks & analogs of naturally occurring bio-active compounds - November 2009
1. **Mr. Sumit Kumar:** Design and synthesis of 3-(3-chromonyl)acrylic acid derivatives & synthesis of PEG based amphiphilic polymers - April 2009

Supervision of awarded M.Phil. dissertations – 2

2. **Ms. Abha Kathuria:** Design and synthesis of novel C-3 substituted 4-methylcoumarins and evaluation of their biological activity - November 2007
1. **Mr. Anil Kumar Pandey:** Synthesis of novel benzopyran-4-ones (chromones) – November 2005

1. Supervision of Doctoral Thesis, under progress – 5

Mr. Parmanand, Mr. Anoop Kumar, Ms. Diksha Verma, Ms. Krishna, Ms. Aarti

Projects (Major Grants / Collaborations)

1. **Biotechnology Industry Research Assistance Council (BIRAC,** A PSE of Department of Biotechnology (DBT), Government of India): 2020-2021. Partially Hydrolysed Guar Gum Based Non-ionic Amphiphiles for Biomedical and Industrial Applications: A Cleaner and Greener Biocatalytic Approach.
2. **Department of Science & Technology (DST-DFG International Collaboration):** 2017- 2020. Chemo-enzymatic synthesis of multivalent dendritic architectures for the control of neurodegenerative disorders.
3. **Science & Engineering Research Board (SERB-DST):** January 2016 – July 2019 2018. “Design and Synthesis of Oligoglycerol and PEG based Nanocarriers for Biomedical Applications”.
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6. **Defence Research Development Organization (DRDO):** June 2011 – March 2015. “Design and Synthesis of Lead Antimicrobial Compounds for Defense Applications”.
7. **DU-DST Purse Grant:** 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

<p>recombinant clones of C, P and N domains of Calreticulin.</p> <p>8. Department of Biotechnology (DBT): December 2005 – December 2010. Design and Synthesis of Novel Peptide Nucleic Acids with Improved Cell Permeability.</p> <p>9. Defence Research Development Organization (DRDO): September 2007 – March 2010. Design and Synthesis of Glycerol Based Building Blocks for Flame Retardant Polymers”.</p> <p>10. Polytechnic University, New York, USA. 2006 – December 2009. Development of reactions and technologies in the generation of novel materials.</p>
<p>Organization of Conferences</p> <p>Course Coordinator: CPDHE Refresher course on Chemistry entitled “Advances in Chemical Science” conducted by the Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi during October 27 – November 10, 2020.</p> <p>Convener: Indo-German Workshop on ‘Multivalent Macromolecular Architectures for Biomedical Applications’, 5-6 April 2019, Department of Chemistry, University of Delhi.</p> <p>Convener: International Conference on Challenges in Carbohydrate Chemistry and Biology, CARBO-XXXI, 14-16 November 2016, Department of Chemistry, University of Delhi.</p> <p>Organizing Secretary: DU-JAIST Indo-Japan Symposium on ‘Chemistry of Functional Molecules/Materials’ on 26-27th February 2016 at Department of Chemistry, University of Delhi.</p> <p>Organizing Convener: 2nd Indo-German Workshop on ‘Supramolecular Chemistry’ on 30th March 2015 at Department of Chemistry, University of Delhi.</p> <p>Organizing Secretary: 20th ISCB International Conference on Chemistry and Medicinal plants in Translational Medicine for Healthcare organized by Department of Chemistry, University of Delhi, 1st – 4th March 2014.</p> <p>Organizing Convener: Indo-German Workshop on “New Perspectives for Nano Carriers in Biomedical Applications” on 14th January 2013 at Department of Chemistry, University of Delhi.</p> <p>Organizing Coordinator: 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>Organizing Coordinator: 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>Organizing Secretary: 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>Organizing Secretary: 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>Organizing Secretary: 3rd Indo – Italian Seminar on Green Chemistry. 9 December 2009 – organized by Department of Chemistry, University of Delhi and Embassy of Italy.</p> <p>Secretary: 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 Coordinator, DU Pre-entrance Summer School 1st - 14th June 2018. for the preparation of M.Sc. (Chemistry) DU entrance examination for the Economically Weaker Sections</p>
<p>Conference Participation: 108</p> <p>108. GVK Biosciences Private Limited, Hyderabad, 14 February 2020, Invited Talk “Bio catalytic synthesis of non-ionic Nano transporters for biomedical applications’.</p> <p>107. National Seminar on Applied Polymer Science and Technology (NSAPST-2020), 28 – 29 Jan., 2020, Sardar Patel University. Invited Talk: Chemo-enzymatic synthesis of amphiphilic polymers.</p> <p>106. DST 2nd -INSPIRE INTERNSHIP SCIENCE CAMP – 2020, 25th January 2020, Meerut Institute of Technology, Meerut, Invited as an Eminent Mentor: Biocatalysts: A Greener Approach in Organic Synthesis.</p> <p>105. International Conference (ICACSEM), 9-10 January, 2020, University of Madras, Chennai, Prof. Dr. T. Balakrishnan Endowment Lecture.</p> <p>104. DST 2nd -INSPIRE INTERNSHIP SCIENCE CAMP – 2019, 19th December 2019, Smriti College of Pharmaceutical Education, Indore. Invited as an Eminent Mentor: Chemo-enzymatic synthesis of amphiphilic polymeric and dendritic architectures for biomedical applications.</p> <p>103. International Conference on “Advances in Polymer Science and Rubber Technology” (APSRT), 24-27 September 2019, IIT Kharagpur. Invited Talk: Chemo-enzymatic synthesis of amphiphilic polymeric and dendritic architectures for biomedical applications.</p> <p>102. National Conference on ‘Recent Advances in Materials’ (RAM), 6-7 July 2019, Centurion University, Bhubaneswar. Invited Talk: Chemo-enzymatic synthesis of amphiphilic polymeric and dendritic architectures for biomedical applications.</p> <p>101. NIISER Bhubaneswar, 5 July 2019, Invited Talk: Chemo-enzymatic synthesis of amphiphilic polymeric and dendritic architectures for biomedical applications</p> <p>100. Indo-German Workshop on ‘Multivalent Macromolecular Architectures for Biomedical Applications’, 5-6th April 2019, Department of Chemistry, University of Delhi. Poster presentations by: i. Ms. Rashmi: Study of Self-Assembly and Nanotransport Behaviour of Non-ionic Bolaamphiphiles for Biomedical</p>

- Applications.
- ii. Ms. **Rashmi**: Non-ionic PEG-Dendron Conjugates for Biomedical Applications.
 - iii. Ms. **Ayushi Mittal**: Selective Functionalization of Oligo-glycerol Derivatives to Develop a Novel Amphiphilic System for Biomedical Applications.
 - iv. Mr. **Parmanand**: Synthesis of diglycerol and mPEG based amphiphilic nanocarriers.
 - v. Mr. Anoop: Synthesis of Non-ionic Amphiphilic Architectures for Biomedical Applications.
 - vi. Ms. **Krishna**: Non-ionic A₂B₂ Monomer Based Amphiphiles: Self-assembly and Transport Study for Drug Delivery Applications.
99. **Workshop on "NMR as a tool for fingerprinting materials"**, 19th-20th February, 2019, Department of Physics, University of Delhi. Invited talk: NMR as a tool for characterizing organic compounds.
 98. **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
 97. **International Conference on Nanomaterials: Initiatives and Applications"**, 9-11 March, 2018, Jiwaji University, Gwalior. Self-assembly of non-ionic amphiphiles for biomedical applications.
 96. **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.
 95. **8th Conference of Haridwar ISCA Chapter**, 14-15 October 2017, Nainital, Invited lecture: Kinase Inhibitors: Promising candidates for cancer control
 94. **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.
 93. **23rd ISCBC International Conference (ISCBC-2017)**, 8-10 February, 2017, SRM University, Chennai, Invited talk: Synthesis and Kinase Inhibition Study of Pyridylpyrimidinylaminophenyl Derivatives.
 92. **Refresher Course in Chemistry**, 18 January 2017, UGC-Human Resource Development Centre, Jawaharlal Nehru University, Invited lecture: Challenges and Options for Drug Delivery.
 91. **DST-INSPIRE Internship Science Camp**, 22nd Dec. 2016, SRM University, Delhi – NCR, Invited talk: Challenges in Drug Development.
 90. **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.*
 89. **Departmental Seminar**, 26 September 2016, IIT-ISM Dhanbad: Amphiphilic Dendritic Architectures for Biomedical Applications.
 88. **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
 87. **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.
 86. **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.
 85. **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.
 84. **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.
 83. **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.*
 82. **30th 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.*
 81. **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.
80. **Seminar Lecture**, 1st July 2015, Freie University Berlin, Germany. Title: Glycerol Based Value Added Products for Biomedical Applications.
79. **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.
78. **21st ISCBC International Conference on "Current Trends in Drug Discovery and Developments"** 25-28th February, 2015 at Central Drug Research Institute, Lucknow. Invited talk: Chemoenzymatic Synthesis of Amphiphilic Polymeric Architectures for Biomedical Applications.
77. **MACRO 2015, International Symposium on Polymer Science and Technology**, 23-26th 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.**
76. **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.**
75. **5th Asia Oceania Conference on "Green and Sustainable Chemistry"**, 15-17th January 2015 at India Habitat Center, Delhi. Invited talk: Cleaner & Greener Chemo-enzymatic Synthesis of Glycerol Based Value Added Products for Biomedical Applications.
74. **ISBOC-10, IUPAC's International Symposium on Bio-Organic Chemistry**, 11-15th 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.
73. **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.
72. **29th 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".
71. **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.
70. **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.
69. **20th ISCB International Conference on Chemistry and Medicinal plants in Translational Medicine for Healthcare**, organized by Department of Chemistry, University of Delhi, 1st – 4th March 2014.
Session Chair: SK Sharma
Poster Presentation:
i. Meena Kumari: Chemo-enzymatic Synthesis and Transport Potential Evaluation of Azido-glycerol Based Amphiphilic Polymeric Materials. (**Best poster award**).
ii. Preeti Yadav: Synthesis of Two-Photon Active Cinnamoylcoumarins for High-Contrast Imaging of Cancer Cells.
iii. Suchita Parshad: Synthesis of Ammonium and Amino Derivative of Pyranocoumarins and Coumarins and Evaluation of Their Antimicrobial activity.
iv. Badri Prasad: 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
68. **International Conference on Harnessing Natural Resources for sustainable Development – Global Trends** organized by Cotton College, Guwahati, Assam on 29-31st January 2014.
Invited Talk:
Cleaner & Greener Chemo-enzymatic Synthesis of Glycerol Based Polymeric and Dendritic Architectures for Biomedical Applications
Poster Presentation:
i. Meena Kumari: Non-ionic Dendronized Multiamphiphilic Polymers as Nanocarriers for Drug Delivery Applications.
ii. 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
67. **International Conference on Challenges in Chemistry and Biology of Carbohydrates CARBO-XXVIII** organized by Association of Carbohydrates Chemist & Technologists, Dehradun, India on 20-22nd January 2014
Oral Presentations:
i. Meena Kumari: Chemo-enzymatic Synthesis and Transport Study of Glycerol Based Amphiphilic Polymeric Materials
Poster Presentation:
i. Shiv Kumar: Synthesis of Carbohydrate Conjugates of Pyranocoumarins and Evaluation of Their Antimicrobial Activity
ii. 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

66. **27th International Carbohydrate Symposium (ICS27)** organized by Indian Institute of Science, Bangalore, 12-17th January 2014.
Poster Presentation:
i. Mr. Shiv Kumar: Dendronized Multiamphiphilic Nanocarriers for Drug Delivery Applications.
Participation: Abhishek K. Singh
65. **Emerging Trends in Glycoscience & Glycotechnology** "(A Satellite Symposium of ICS-27)" organized by Indian Institute of Technology Delhi in Delhi, India on 08-10th January 2014.
Invited Talk: Glycerol Based Amphiphilic Polymeric and Dendritic Architectures for Biomedical Applications.
Poster Presentation:
i. Ms. Meena Kumari: Chemo-Enzymatic Synthesis & Encapsulation Behavior of Amphiphilic Dendritic Polymers for Drug Delivery Applications
Participation: Abhishek K. Singh
64. **International Workshop on "Green Initiatives in Energy, Environment and Health"** jointly organized by Gautam Buddha University and University of Delhi at Delhi, India, 02-03 December 2013.
Poster Presentation:
i. Ms. Meena Kumari: Cleaner & Greener Chemo-enzymatic Synthesis of Glycerol Based Polymeric & Dendritic Architectures for Drug Delivery Applications.
63. **Nanotech-2013**, National Harbor, Washington DC, USA, 12-16 May 2013.
Invited Lecture: Non-ionic Dendronized Multiamphiphilic Polymers as Nanocarriers for Biomedical Applications.
62. **KHOJ 13A National Conference on "Emerging Trends in Chemical Science"** organized by Bharat Institute of Technology (BIT), Meerut, India, 6th April 2013.
Oral paper presentations:
i. Mr. Shiv Kumar: Synthesis, Anti-proliferative, and c-Src Kinase Inhibitory Activities of Chromone Derivatives.
ii. Mr. Abdullah Khan: Synthesis of Novel 2-Pyridone Derivatives and Evaluation of their Anti-proliferative Activity.
iii. Mr. Abhishek K. Singh: Chemo-enzymatic Synthesis of Amphiphilic Dendritic Polymers for Biomedical Applications.
Awarded Best Presentation
61. **19th ISCB International Conference (ISCBC-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), 2-5th March 2013.
Invited Talk: Bio-catalytic Synthesis of Amphiphilic Polymeric and Dendritic Architectures for Biomedical Applications.
Poster Presentations:
i. Mr. Shiv Kumar and Ms. Meena Kumari: Synthesis, Anti-proliferative, and c-Src Kinase Inhibitory Activities of Chromone Derivatives.
ii. 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
60. **"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, 21-23rd January 2013.
Poster Presentations:
i. Ms. Meena Kumari and Mr. Abdullah Khan: Synthesis of Novel 2-Pyridone Derivatives and Evaluation of their Anti-proliferative Activity.
ii. Ms. Preeti Yadav: Two-photon active coumarin derivatives for high-contrast imaging of cancer cells.
iii. 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
59. **Indo-German Workshop** on "New Perspectives for Nano-Carriers in Biomedical Applications" organized by Department of Chemistry, University of Delhi, Delhi on 14th 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
58. **National Carbohydrate Conference (CARBO-XXVII)** at CFTRI Mysore, Karnataka, 13-15 December 2012.
Invited talk: Glycerol Based Polymeric and Dendritic Architectures for Biomedical Applications.
57. **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.
56. **16th Sigma-Aldrich Organic Synthesis Meeting**, Spa, Belgium, 6-7th December 2012.
Poster Presentation:
Mr. Amit Kumar: A Diversity-Oriented Approach to Spiroindolines: Post-Ugi Gold-catalyzed Diastereoselective Domino Cyclization.
55. **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.*
54. **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.
53. **Organic Group Seminar**, University of Massachusetts Lowell, 14 September 2012.
Invited lecture: Biocatalysts: Modern Tools of Organic Synthesis.
52. **13th Belgian Organic Synthesis Symposium (BOSS XIII)**, KU Leuven, Belgium 15-20th July 2012.
Participation: Mr. Amit Kumar
51. **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".
50. **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.
49. **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 platinumed nucleic acids and heterocyclic compounds.
48. **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".
47. **CPDHE Refresher Course, Department of Chemistry, University of Delhi, December 1 - 22, 2011**. *Recent Advances in Methods of DNA Synthesis and Gene Modification.*
46. **"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.
45. **JAIST, Komatsu Japan**, 9th March 2010.
Invited talk: Design and Synthesis of Polymeric and Dendritic Architectures for Drug Delivery Applications.
44. **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.
43. **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.
42. **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.
41. **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.
40. **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:
- Ms. Anjali Gupta: Specificities of Calreticulin Transacetylase to acetoxy derivatives of benzofurans. **Awarded Best Poster**
 - Mr. Karam Chand: Characterization of acetoxy quinolones as an effective antiplatelet agent.
 - Ms. Abha Kathuria: Chromen-2-ones, quinolin-2-ones and chromen-4-ones as lead antimicrobial compounds.
 - Ms. Shilpi Gupta: Biocatalytic synthesis of PEG based conjugated polymer dendrimer architectures for drug delivery applications.
 - Ms. Sarah Jalal: Chemoenzymatic approach for the synthesis of valuable triacyl glycerol based dendritic blocks.
39. **University of Rhode Island, USA 5th May 2009**.
Invited lecture: DNA Targeting to Control Abnormal Gene Activity.
38. **6th 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:
- Ms. Anjali Gupta: Specificities of Calreticulin Transacetylase to acetoxy derivatives of benzofurans.
 - Mr. Karam Chand: Characterization of acetoxy quinolones as an effective antiplatelet agent.
37. **3rd 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.
36. **5th 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.

35. **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.
34. **Indo - German Symposium on "Supramolecular Chemistry"**. Organized by Department of Chemistry, University of Delhi on 3rd March 2009.
Invited Lecture: Biocatalytic synthesis of glycerol based novel amphiphilic polymers.
Poster Presentations:
i. Mr. Sumit Kumar: Polyglycerol - PEG based dendritic architectures for drug delivery applications.
ii. 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.
33. **Indo - Danish symposium on "Bioorganic Chemistry"**. Organized by Department of Chemistry, University of Delhi on 2nd March 2009.
32. **DU - NERI (AU) workshop on Atmospheric Science and Climate change**. Organized by Department of Chemistry, University of Delhi on 27-28 February 2009.
31. **ISCBC – 2009**, 13th 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:
i. Ms. Sarah Jalal: Design and synthesis of novel coumarin-3-carboxamide as potential bioactive compounds.
ii. 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.
iii. Ms. AbhaKathuria: Specificities of acetoxy derivatives of 3-alkyl-4-methyl coumarin for acetoxy drug: Protein transacetylase and their role in activation of Nitric Oxide Synthase.
iv. Mr. Karam Chand: Synthesis of novel quinolin-2-ones as potential bioactive compounds.
30. **Indo-Japanese Seminar on Polymeric Advanced materials**. Organized by Department of Chemistry, University of Delhi on 26 February 2009.
29. **National Seminar on "Open Source Drug Discovery"**. Organized by Department of Chemistry, University of Delhi and CSIR (India), on 26 February 2009.
28. **Indo-US Symposium on Trends in Chemical Biology**. Organized by Department of Chemistry, University of Delhi, on 25 February 2009.
27. **4th 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. AbhaKathuria: 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.
26. **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.
25. **Recent advances in chemical sciences**. P.G. Department of Chemistry, Government Dugar 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.
24. **3rd 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. AbhaKathuria: Synthesis of novel C-3 substituted 4-methylcoumarins and evaluation of their Transacetylase activity.
23. **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.
22. **International seminar on Frontiers in Polymer Science and Technology.** Organized by Jadavpur University, Kolkata 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.
 21. **Nationalseminar 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.
 20. **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.
 19. **International Symposium on Polymer Therapeutics (ISPT -2007).** Organized by Institute of Chemistry and Biochemistry Freie Universität, Berlin, on 19-20 February 2007.
 18. **9th 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.
 17. **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. Abhakathuria: Development of Biocatalytic routes towards efficient manipulation of hydroxyl groups in glycerol for commodity chemicals.
 16. **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.
 15. **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.
 14. **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.
 13. **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.
 12. **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.
 11. **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.
 10. **National Meeting and Exposition Program, 226th 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.
 9. **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)- α -D-pentofuranose.
 8. **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.
 7. **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 -hydroxymethylfuranose sugar in organic solvent.
 6. **37th IUPAC Congress -Frontiers in Chemistry: Molecular basis of the life Sciences.** 27th GDCH general meeting. Organized by

<p>Department of Chemistry, Berlin (Germany), on 14-19 August 1999.</p> <p>5. First University - Industry interaction meet on Lipase research: needs and components. 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>4. First National Symposium on Green Chemistry. Organized by Department of Chemistry, University of Delhi, on 11-13 January 1999. Poster presentations: a) Resolution of a novel (\pm)-4-(1-chloroethyl)-7-hydroxy coumarin: The Green way. b) Biocatalytic resolution of chroman-3-ols. c) A Facile lipase-catalysed regioselective acetylation of bis -hydroxy methyl furano sugar in organic synthesis.</p> <p>3. XIII Carbohydrate conference. 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>2. National seminar on perspective in Interfacial areas of Chemistry and Biology. Organized by Department of Chemistry, University of Delhi on 20-22 January 1998,</p> <p>1. International symposium on recognition processes. Organized by RSC, University of Birmingham on 24-29 July 1994.</p>
Total Publication Profile
<p>In Indexed/ Peer Reviewed Journals Articles published: 141 Review articles published: 15 Patents: 1</p>
Collaborators
<p>Professor Rainer Haag, Freie Universitat Berlin, Germany Professor Jayant Kumar, University of Massachusetts, Lowell, USA Professor K. Parang, Chapman University, Irvine, CA, USA Professor Hemant K. Gautam, IGIB, Delhi, India Professor Luciano Sasso, Institute of Pharmacology, Sapienza University, Rome, Italy Dr. Praveen Vats, DRDO-DIPAS, New Delhi, India</p>
Other Details
<p>Member Reviewers committee of, Elsevier, Wiley, Scholar One, and many other journals. Subject expert/VC Nominee for promotion of Assistant and Associate Professors in colleges of Delhi University and other institutes.</p>

(Professor Sunil K. Sharma)

31st July 2021