

University of Delhi

Title Prof.	First Na	ame	Sunil	Last Name	Sharma	Photograph	
Designation	Professo	r					
Department	Chemist	Chemistry					
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(Residence)							
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Email	sk.sharm	a90@g	mail.com; sksl	harma@chemistr	y.du.ac.in		
Web-Page	Prof. S	UNIL	KUMAR SH	IARMA (sama	arth.edu.ir	<u>1)</u>	
Education	I						
Subject		Instit	tution	Year	1	Details	
Ph. D.		Unive	rsity of Delhi	1992	1	Thesis topic: New Natural Products and their spectral studies	
M. Sc.		Unive	rsity of Delhi	1986	S	ubjects: Organic Chemistry (Spl.)	
B. Sc.		Unive	rsity of Delhi	1984	S	Subjects: Chemistry (Hons.)	
Career Profile							
Organization / Institution	on	Desi	gnation	Duratio	on F	Role	
University of Delhi		Profe	ssor	2010-pre	esent 1	eaching and research	
University of Delhi		Reade Profe	er/Associate ssor	2004-203	10 1	Teaching and research	
University of Massachusetts	s Lowell,	Resea	rch Scientist	2002 - 20	004 0	Carried research in the areas of	
USA					F	olymer Chemistry & Nanotechnology	
Boston College, Boston, USA	4	Scient	tist	2000-20	02 S	Synthesis of platinated oligo- nucleotides and peptide nucleic acid	
University of Delhi		Scient	tist 'B'	1997-20	00 E	iotransformations and synthesis of	
Copenhagen University &		Resea	rch Fellow	1996-199	97 5	Synthesis of carbohydrate modified	
University of Southern Den	mark	nesee		1550 15	r	nucleosides & phytochemical	
CSIC. Madrid. Spain		Post-	Doctoral Fello	w 1993-19	95 1	Molecular recognition and	
					8	glycophane synthesis	
Research Interests / Sp	ecializati	on					
Organic synthesis, Bio-cataly	vsis, Chemi	stry of	natural produc	cts, Nucleic acid c	hemistry, Pol	ymer synthesis, and Nanotechnology	
Administrative Assignm	nents						
April 2021 – March 2025: Pr	ovost, Jubi	lee Hal	l Hostel, Unive	ersity of Delhi, De	lhi.		
Sept. 2024 - Sept. 2025: Tre	easurer &	Univer	sity Represent	ative on the Gov	erning Body	of Shivaji College, University of Delhi,	
Delhi.							
Dec. 2022 – Dec. 2024: Univ	versity Rep	present	ative on the G	Governing Body o	of Janki Devi I	Memorial College, University of Delhi,	
Deini. July 2021 – July 2023: Specia	al Invitee T	Denartr	nental Researc	h Committee De	enartment of	Chemistry, University of Delhi, Delhi	
Dec. 2020 – Dec. 2022: VC N	Dec. 2020 – Dec. 2022: Special invitee, Departmental Research Committee, Department of Chemistry, 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,							
Feb. 2019 – Feb. 2020: Treasurer & University Representative on the Governing Body of Rajdhani College, University of 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							
or Deini 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 Superinte	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

2021 UGC Mid Career Award

- **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).
- Travel grant award by International Union of Pure and Applied Chemistry (IUPAC). 1999
- 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= 728.583; Avg. Impact: 4.3627; Citations: 5653; h-Index: 38; i10-Index: 133
Journal [No. of papers published, Impact factor]: Publication details
Chem. Soc. Rev. (Q1), [1, IF: 40.4]: 45, 6855 (2016);
Advanced Materials (Q1), [1, IF: 29.4]: 22, 190 – 218 (2010);
Angew Chem. Int. Ed. (Q1), [1, IF: 16.6]: 51, 9572 - 9575 (2012);
J. Am. Chem. Soc. (Q1), [3, IF: 15.0]: 126, 70 – 71 (2004); 124, 9658 – 9659 (2002); 117, 11198-204 (1995);
Small (Q1), [2, IF: 13.3]:9, 894 – 904 (2013); 14, 1800796 (2018)
Asian J. Pharm. Sci (Q1), [1, IF: 10.2]: 18 100855 (2023);
ChemSusChem (Q1), [1, IF: 8.4]: 7, 379 – 390 (2014);
Int. J. Biological Macromol. (Q1), [1, IF: 8.2]: 181, 653 – 671 (2021)
<i>J. Med. Chem.</i> (Q1), [1, IF: 7.3]: 54 (12), 4147 – 4159 (2011);
<i>J. Mat. Chem. B</i> (Q1), [1, IF 7.0]: 1, 3569 – 3577 (2013);
<i>Eur. J. Med. Chem.</i> (Q1), [1, IF: 6.7]: 42, 447-455 (2007);
<i>Microbiol. Res.</i> (Q2), [1, IF: 6.7]: 166(8), 662 – 672 (2011);
Eur. Polymer Journal (Q1), [4, IF: 6.00] 69, 416 – 428 (2015); 80,158 – 168 (2016); 109, 506 – 522 (2018); 213, 113127 (2024)
Int. J. Pharmaceutics(Q1), [1, IF: 5.8]: 580, 119212 (2020);
The FASEB Journal (Q1), [1, IF: 5.81]: 14, A1513 (2000);

- *The Chemical Record* (Q1), [1, IF: 5.577]:16 (1), 73 83 (2016);
- Applied Catalysis A: General (Q2), [1, IF: 5.5]: 601, 117529 (2020);
- FEBS Letters(Q1), [1, IF: 5.4]: 579, 1665 1669 (2005);
- *Org. Lett.* (Q1) [1, IF: 5.2]: 15, 1874 77 (2013);
- *Bioorg. Chem.* (Q1), [2, IF: 5.1]: 40, 131–136 (2012); 53, 75-82 (2014);
- Archiv. der Pharm. (Q2), [3, IF 5.1]: 345, 368 77 (2012); 350, e1600390 (2017); 350, e1700076 (2017);
- *Eur. J. Org. Chem.* (Q1), [4, IF: 5.02]1223 27 & 2288 2292 (2013); 2084 2091 (2014); 6370 6374 (2020);
- ACS Applied Polymer Materials. (Q1),[1, IF;5.00] 4, 8269-8276 (2022).
- Chem. Commun. (Q1), [5, IF: 4.9]: 49, 6803 05 (2013); 48, 10916 18 (2012); 2616 2617 (2007); 2689 2691 (2004); 27 29 (1993);
- Molecules (Q1), [1, IF: 4.9]: 21, 1038 (2016);
- *Microchem. Journal* (Q1), [1, IF: 4.8]: 90, 89 92 (2008);
- *Polymer* (Elsevier) (Q1), [1, IF: 4.6: 53(15), 3053 3078 (2012);
- Macromol. Rapid Communications (Q1), [2, IF: 4.6]: 36, 254 261 (2015); 2100914 (2022);
- Polymer Chem. (Q1), [2, IF: 4.6]: 7 (4), 887 898 (2016); DOI: 10.1039/D0PY01040E (2020);

Macromol. Bioscience (Q1), [1, IF: 4.6] 18, 1800019(2018), Chemistry – An Asian Journal (Q1), [1, IF 4.568]: 12, 1796 – 1806 (2017); ACS Appl. Polym. Materials [1, IF: 4.5] (2025, under publication); Spectrochimica Acta (Q2), [1, IF: 4.4]: 48A, 617 – 620 (1992); J. Proteome Res. (Q1), [1, IF: 4.4] 11(6), 3259 – 3268 (2012); J. Photochem. Photobiol. A: Chemistry (Q2), [1, IF: 4.3] 280, 39 - 45 (2014); Polymers(Q1), (MDPI) [1, IF: 4.207] 8, 311 (2016); 12, 1421 (2020) *Curr. Med. Chem.* (Q1), [2, IF: 4.1]: 18(25), 3758 – 3824 (2011); 18(25), 3825 – 3852 (2011); Sensors (Q1), [1, IF: 4.1]: 15, 31987 – 98 (2015); J. Inorg. Biochem. (Q2) [1, IF: 3.9]: 98, 1570 - 1577 (2004); *Biochimie* (Q1), [3, IF: 3.9]: 92, 1173 – 79 (2010); 92, 1180-85 (2010); 92, 1089-1100 (2010); RSC Advances (Q1), [6, IF: 3.9] 5, 48301 - 310 (2015); 7, 22121 - 22132 (2017);7, 37534 - 37541 (2017);10, 37555 - 63 (2020); 10, 42098 - 42115 (2020); 12, 23566-23577 (2022); Catalysts (Q2), [1, IF: 3.9]: 7, 123 - (2017); Appl. Organomet. Chem.(Q2), [1, IF: 3.9]: e5362 (2019). https://doi.org/ 10.1002/aoc.5362 *Org. Biomol. Chem.* (Q2), [3, IF: 3.876]: 5, 3524 – 3530 (2007); 14, 4073 – 4076 (2019); 18, 7188 (2020) *Phytochemistry* (Q1), [1, IF: 3.8]: 36, 507 – 511 (1994); Journal of Molecular Structure (Q2), [1, IF: 3.8]; 1272, 134151 (2023); J. Chem. Soc., Perkin Trans.* [1, IF: 3.876]: 1, 1409 - 1422 (1998); J. Pharm. Sci. (Q2), [1, IF: 3.7]: 83, 1217-1221 (1994); J. Org. Chem. (Q1), [1, IF: 3.6]: 61, 6790 – 6798 (1996) Bioorg. Med. Chem. (Q2), [13, IF: 3.5]: 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); *Pharmaceutical Biology* (Q1), [1, IF: 3.503]: 54 (1), 105 – 110 (2015); *ChemMedChem* (Q1), [1, IF: 3.466]: 16, 1 – 11, (2021); Soft Matter (Q1), [1, IF: 3.4]: 20, 1282-92 (2024); *Biochimica et Biophysica Acta* (Q1), [1, IF: 3.4]: 1698,55 – 66 (2004); Polymer Adv. Tech. (Q2), [3, IF: 3.4]: 25, 1208 - 1215 (2014); 31, 1208 - 1217 (2020); 2601-2609 (2022); e6223 (2023); *New J. Chem.* (Q2), [1, IF: 3.3]: 43, 11984 – 11993 (2019); Pure and Applied Chemistry (Q2), [4, IF: 3.386]: 77, 209 – 226 (2005); 77, 91 – 101 (2005); 77, 201 – 208 (2005); 77, 65 – 74 (2005); *Int. J. Biometeorol.* (Q1), [1, IF: 3.2]:65, 601 – 615 (2021); *PLOS One* (Q1), [1, IF: 3.4]: 9, e103039(2014); *Current Topics Med. Chem.*(Q2), [1, IF: 3.295]: 14, 2552 – 2575 (2014); Synthesis [2, IF: 3.019]: 45, 2571 - 82 (2013); 47 (9), 1337 - 1347 (2015); Indian J. Microbiol. (Q1), [1, IF: 3.0]: 57 (4), 499 – 502 (2017); J. Mater, Sci.: Mater Electron (Q2), [1, IF: 2.8]: 33, 2643-2653 (2022); Catalysis Letters (Q2) [1, IF: 2.7]: 145 (3), 919 - 929 (2015); Beilstein J. Org. Chem. (Q2), [1, IF: 2.7]: 9, 2097 - 2102 (2013); *Bioorg. Med. Chem. Lett.* (Q2), [1, IF: 2.7]: 6, 2269 – 2274 (1996); Macromol. Chem. Phy. (Q2), [1, IF: 2.5]: 211, 239 – 244 (2010); Org. Mass Spectrom.# [1, IF: 2.415]: 28, 23 - 26 (1993); J. Het. Chem. (Q3), [2, IF: 2.4]: 52, 562 - 572 (2015); 53, 1264 - 75 (2016); *Adv. Poly. Tech.* (Q2), [2, IF: 2.389]: 1 – 9 (2017, DOI: 10.1002/adv.21839); Tetrahedron (Q3), [3] [IF: 2.1]: 71 (21), 3333 – 3342 (2015); 61, 5687 – 5697 (2005); 53, 2163 – 2176 (1997); ChemistrySelect (Q3), [2, IF: 2.10]: 4, 10828 - 37 (2019); under publication (2022); Med. Chem. Res. (Q2), [3, IF: 2.6]: 23, 4907 - 4914 (2014); 24, 2297 - 2313 (2015); 25 (6), 1057 - 1073 (2016) J. Macromol. Sci., Pt. A Pure and Applied Chemistry (Q2), [2, IF: 2.5]: 48 (2), 1055 - 1060 (2011); 41, 1459-66 (2004); Synth. Commun. (Q3), [1, IF: 2.1]: 47, 1854 - 1863 (2017); *Biol. Pharm. Bulletin* (Q2), [1, IF: 2.0]: *39* 1544 – 1548 (2016) *Biocat. Biotrans.*(Q3), [1, IF: 2.0]: 28, 172 – 84 (2010); *Tet. Lett.* (Q3), [3, IF: 1.8]: 40, 9145 - 9146 (1999); 36, 5627 - 30 (1995); 55, 2070 - 74 (2014); J. Chem. Sci.(Q3), [2, IF: 1.7]: 124 (2), 437 – 449 (2012); 129 (2), 211 – 222 (2017); Int. J. Art. Organ (Q3), [1, IF: 1.7]: 34, 84 – 92 (2011);

Prot. Pept. Lett. (Q3), [1, IF: 1.6]: 18, 507 – 517 (2011);

J. Indian Chem. Soc. (Q3), [2, IF: 1.3]: 79, 787 – 795 (2002); 67, 207 – 209 (1990);

Canadian J. Chem. (Q3), [1, IF: 1.0]: 91, 741 - 754 (2013);

Russian J. Org. Chem.(Q4), [1, IF: 0.8]: 31, 1839 - 1848 (1995);

J. Sci. Ind. Res. (Q3), [2, IF: 0.6]: 59, 893 - 903 (2000); 57, 873 - 890 (1998);

Indian J. Chem. Tech. (Q4), [1, IF: 0.57]; 30 (1), (2023)

Indian J. Chem.(Q4), [13, IF: 0.456]: 58B, 482 – 496 (2019); 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).

Med. Chem. (Q1), (OMICS International, Los Angeles) [1, IF: Not cited]: 6 (7), 506-514 (2016);

ACS Polym. Sci. Technol. [1, IF: Not cited]: 1, 144-154 (2025)

Trends Carb. Res.(Q2), [2, IF: Not cited] 3, 18-34 (2011); 8, 1-8 (2016);

Polymer Preprints (Q1),[2]: 49, 1066-1067 (2008); 44, 791-792 (2003);

Chem. Biol. Interface(Q1), [1, IF: Not cited] 1 (2), 279-296 (2011);

ACS Polymer Science & Technology (2025) in press (Manuscript No.: ps-2025-00004u)

NSTI-Nanotech 2013 [1]: Tech. Connect World Proceedings Vol. 3, 308-11 (2013);

*Now published as Org. Biomol. Chem.

[#]Now published as J. Mass. Spectrom.

Publication Details	Total: 170	Avg. Impact: 4.3	Citations: 6543	h-Index: 43	i10-Index: 126

- Fabrication of redox and hydrolase-responsive non-ionic bola-amphiphiles as efficient nano-transport systems for drug delivery. Aarti, Sudhanshu Vats, Bajrang Sharma, Saima Syeda, Anju Shrivastava, Sunil K. Sharma. *ACS Appl. Polym. Materials* (2025, accepted for publication). (IF: 4.5)
 Study on the Self-Assembly and Dual-Stimuli-Responsive Behavior of Multi-Amphiphilic Polymeric Architectures. B Parshad, Krishna, M Kumari, K Kaushik, Y Pan, K Achazi, C Böttcher, Rainer Haag, S K Sharma. *ACS Polym. Sci. Technol.*
- 1, 144-154 (2025). DOI:10.1021/polymscitech.5c00004.
 Stimuli-responsive azo-functionalized non-ionic amphiphiles for controlled drug delivery applications. Krishna, Saima Syeda, Badri Parshad, Jyoti Dhankhar, Antara Sharma, Anju Shrivastava, Sunil K. Sharma. *European Polymer Journal*, 213, 113127 (2024). doi.org/10.1016/j.eurpolymj.2024.113127. (IF: 5.8)
- 167. Synthesis of C₃-symmetric star shaped amphiphiles for drug delivery applications. Ayushi Mittal, Aarti, Sudhanshu Vats, Fatemeh Zabihi, Katharina Achazi, Fiorenza Rancan, Anika Vogt, Rainer Haag and S. K. Sharma. *Soft Matter* 20, 1282-92 (2024). DOI: 10.1039/d3sm01388j. (IF: 3.4), Q1
- 166. Synthesis and transport potential study of A2B type doublechain amphiphilic architectures. Aarti, Krishna, Saima Syeda, Rishima Chandel, Antara Sharma, Anju Shrivastava, Sunil K. Sharma. *Polym Adv. Technol.* e6223 (2023). DOI: 10.1002/pat.6223. (IF: 3.4), Q2
- Leveraging Immunoliposomes as Nanocarriers Against SARS-CoV-2 and Its Emerging Variants. Nur Dini Fatini Mohammad Faizal, Nur Najihah Izzati Mat Rani, Nur Adania Shaibie, Nurul Afina Ramli, Aarti, Pattaporn Poonsawas, Sunil K. Sharma, Mohd Cairul Iqbal Mohd Amin. *Asian J. Pharm. Sci.* 18, 100855 (2023. (IF: 10.2), Q1
- 164. Triazole-based C3-symmetric multivalent dendritic architecture as Cu(II) ion sensor. Preeti Yadav, Badri Parshad, Krishna, Antara Sharma, R Kakkar, Sunil K. Sharma. *Indian J. Chem. Tech.* **30** (1), 111-116 (2023). (IF: 0.57), Q4
- 163. Design and synthesis of anti-inflammatory 1,2,3-triazolylpyrrolobenzodiazepinone derivatives and impact of molecular structure on COX-2 selective targeting. Amit Kumar, M. Sarwar Alam, Hinna Hamid, Vaishali Chugh, Tanvi Tikla, Rajeev Kaul, Sunil K. Sharma, and Abhijeet Dhulap. *J. Mol. Str.* Accepted for publication 1272, 134151 (2023). DOI: 10.1016/j.molstruc.2022.134151 (IF: 3.8), Q2
- 162. Evaluation of Transport Potential of Alkylated and Fluoroalkylated Amphiphilic Hybrid Nano-architectures. Diksha Verma, Rashmi, Deepshikha Rathore, Katharina Achazi, Boris Schade, Rainer Haag, and Sunil K. Sharma. *ACS Applied Polymer Materials*. **4**, 8269-8276 (2022) <u>doi.org/10.1021/acsapm.2c01176</u>. (IF: 5.00), Q1
- 161. Fabrication of Hydrolase Responsive Diglycerol Based Gemini Amphiphiles for Dermal Drug Delivery Applications. Ayushi Mittal, Krishna, Fatemeh Zabihi, Fiorenza Rancan, Katharina Achazi, Chuanxiong Nie, Annika Vogt, Rainer Haag and Sunil K. Sharma. *RSC Advances*, ISSN: 2046 2069, **12**, 23566-23577 (2022). DOI: 10.1039/d2ra03090j. (IF: 3.245), Q1
- Self-Assembly and Transport Behaviour of Non-ionic Fluorinated and Alkylated Amphiphiles for Drug Delivery. Anoop Kumar, Krishna, Antara Sharma, J Dhankhar, S Syeda, A Shrivastava, Sunil K. Sharma. *ChemistrySelect*, 7, e202203274 (2022), ISSN: 2365-6549.; https://doi.org/10.1002/slct.202203274 (IF: 2.10), Q3
- 159. Constructing the nano mixture of guar-gum and Fe₃O₄ for photocatalytic degradation of dyes and heavy metal, Anoop Kumar, Shweta Kumari*, Parmanand, and Sunil K. Sharma*, *J. Mater, Sci.: Mater Electron* 33, 2643-2653 (2022). (IF: 2.8), Q1

- Synthesis of D-glucitol based Gemini amphiphilic nanotransporters. Diksha Verma, Rashmi, Katharina Achazi, Abhishek Kumar Singh, Boris Schade, Rainer Haag, Sunil K. Sharma. *Poly. Adv. Technol.* 2601-2609 (2022). DOI: 10.1002/pat.5716. (IF: 3.348), Q2
- 157. Supramolecular Engineering of Alkylated, Fluorinated, and Mixed Amphiphiles. Rashmi, Hooman Hasheminejad, Svenja Herziger, Alireza Mirzaalipour, Abhishek K Singh, Roland R. Netz, Christoph Bottcher, Hesam Makki, Sunil K Sharma, Rainer

Haag Macromol. Rapid Commun., 2100914 (2022). doi.org/10.1002/marc.202100914. (IF: 4.6), Q1

- 156. Recent advances in guar gum based drug delivery systems and their administrative routes, Diksha Verma, Sunil K. Sharma *Int. J. Biological Macromol.*, ISSN: 0141 – 8130, 181, 653-671 (2021)doi.org/10.1016/j.ijbiomac.2021.03.087. IF: 8.2), Q1
- 155. Newer Non-ionic A2B2-Type Enzyme-Responsive Amphiphiles for Drug Delivery. Krishna, Badri Parshad, Katharina Achazi, Christoph Böttcher, Rainer Haag, Sunil K. Sharma. *ChemMedChem*, ISSN: 1860 - 7179 16, 1–11, (2021) doi.org/10.1002/cmdc.202100031154. (IF: 3.466), Q1
- 154.High-altitude hypoxia induced reactive oxygen species generation, signaling, and mitigation approaches. Priya Gaur, Suchita Prasad, Bhuvnesh Kumar, Sunil K Sharma, Praveen Vats. *Int. J. Biometeorol.*, ISSN: 0020-7128, **65**, 601-615 (2021) DOI: 10.1007/s00484-020-02037-1. (IF: 3.2), Q1
- 153. Non-ionic small amphiphile based nanostructures for biomedical applications. Badri Parshad; Suchita Prasad; Sumati Bhatia; Ayushi Mittal; Yuanwei Pan; Prashant Mishra; Sunil K. Sharma; Ljiljana Fruk. *RSC Advances*, ISSN: 2046 2069, 10, 42098-42115 (2020). DOI: 10.1039/d0ra08092f. (IF: 3.245), Q1
- Regioselective Synthesis of Arylsulfonyl Benzophenones via Aerobic Oxidative [3+3] Benzannulation Reactions. Deepak Yadav, Prabhakar R. Joshi, Sunil K. Sharma and Rajeev S. Menon. *Eur. J. Org. Chem.*, ISSN: 1099 - 0690, 6370–6374 (2020). DOI: org/10.1002/ejoc.202000931. (IF: 5.02), Q2
- 151. Oligo-glycerol based non-ionic amphiphilic nanocarriers for lipase mediated controlled drug release. Parmanand, Ayushi Mittal, Abhishek K. Singh, Aarti, Katharina Achazi, Chuanxiong Nie, Rainer Haag and Sunil K. Sharma. *RSC Advances*, ISSN: 2046 - 2069, **10**,37555-63(2020), DOI: 10.1039/d0ra07392j. (IF: 3.245), Q1
- 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: 4.6), Q1
- 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: 3.876), Q2
- Cu (II) Schiff base complex grafted guar gum: Catalyst for benzophenone derivatives synthesis. Krishna, Shweta Kumari, Deepak Yadav, Sunil K. Sharma. *Applied Catalysis A: General*, ISSN: 0926-860X, 601, 117529 (2020), DOI: <u>10.1016/j.apcata.2020.117529</u>). (IF: 5.5), Q2
- Chemoenzymatic Synthesis of D-Glucitol-Based Non-Ionic Amphiphilic Architectures as Nanocarriers. Priyanka Manchanda, Katharina Achazi, Diksha Verma, Christoph Böttcher, Rainer Haag, Sunil K. Sharma. *Polymers*, ISSN: 0032-3861 (MDPI) 12, 1421 (2020); DOI:10.3390/polym12061421. (IF: 4.207), Q1
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- 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: 4.4) Q2
- ¹³C Nuclear Magnetic Resonance studies on pyrano- and dihydropyrano-1,3-diphenylprop-2-enones, V S Parmar, S K Sharma, A Vardhan, R K Sharma, S Gupta, S Malhotra, P M Boll. *Magn. Reson. Chem.*, ISSN 1097-458X, (1992), 30, 560-563. (IF: 2.3) Q2
- ¹³C Nuclear Magnetic Resonance studies on 1,3-diphenylprop-2-enones, V S Parmar, SK Sharma, J S Rathore, M Garg, S Gupta, S Malhotra, V K Sharma, S Singh, P M Boll, *Magn. Reson. Chem.*, ISSN 1097-458X, (1990), 28, 470-474, DOI: 10.1002/mrc.1260280516 (IF: 2.3) Q2
- Solvent-induced chemical shifts by a combination of trifluoroacetic acid and benzene in the PMR spectra of 2H-1benzopyran-2-ones, V S Parmar, S Singh, S K Sharma and S Nauriyal, J. Indian Chem. Soc., ISSN: 0019-4522, (1990), 67, 207-209. (IF: 1.3) Q3

Articles

- IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications. Natural Product Radiance Vol 3(4), 273-277, July – August 2004.
- S Gupta, B Schade, S Kumar, M Kumari, S Kumar, C Böttcher, R Haag, S K Sharma. Non-ionic dendronized multiamphiphilic polymers as nanocarriers for biomedical applications. *NSTI-Nanotech 2013: TechConnect World 2013 Proceedings*, Vol. 3, 308-311 (2013).
- 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

Supervision of awarded / submitted Doctoral Thesis - 24

24. Ms. Aarti: Design and Development of Stimuli Responsive Amphiphiles for Biomedical Applications. (February 2025)

23. **Mr. Anoop Kumar**: Fabrication of Non-ionic Amphiphilic Nanocarriers for Biomedical Applications & Guar Gum Based Metallic Nanoparticles for Heterogeneous Catalysis (February 2023).

- 22. **Ms. Diksha**: Synthesis of Non-ionic Amphiphilic Architectures & Fused Dipeptidomimetics for Biomedical Applications (February 2023).
- 21. **Ms. Krishna**: Synthesis of Non-ionic Amphiphilic Architectures for Biomedical Applications & Guar Gum Based Heterogeneous Catalyst (December 2022).
- 20. **Mr. Parmanand**: Fabrication of Non-ionic Amphiphilic Nanocarriers for Biomedical Applications & Synthesis of Heterogeneous Catalysts for Carbon-Carbon Cross-Coupling Reactions (February 2022).
- 19. **Ms. Ayushi Mittal**: Fabrication of Lipase Mediated Nanocarriers for Biomedical Applications & Synthesis of Graphene based Heterogeneous Catalyst for Organic Transformations (January 2022)
- 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 (Joint Supervision, October 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 (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 Quinolinone Derivatives & Dendritic Architectures: Study of Photophysical and Biologcal 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. AbhaKathuria**: Design and synthesis of oxygen and nitrogen containing heterocyclic compounds as potent antiplatelet and antimicrobial agents (December 2010).
- 3. **Ms. Shilpi Gupta**: Design and synthesis of benzopyrones, guanidinylated 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. Sudhanshu Vats, Mr. Kamal Kaushik, Mr. Bajrang Sharma, Ms. Shakira Khan, Ms. Saumya Shukla
Pro	piects (Major Grants / Collaborations)
1.	Department of Science and Technology (DST) supported 'ASEAN-India Collaborative R&D project: 2022-2024. Nanocarrier
	mediated targeting of viral proteins: Approach for combating Covid-19.
2.	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.
3.	Department of Science & Technology (DST-DFG International Collaboration): 2017- 2020. Chemo-enzymatic synthesis of
	multivalent dendritic architectures for the control of neurodegenerative disorders.
4.	Science & Engineering Research Board (SERB-DST): January 2016 – July 2019 2018. "Design and Synthesis of Oligoglycerol
	and PEG based Nanocarriers for Biomedical Applications".
5.	Indo-German Science & Technology Center (IGSTC): April 2012 – December 2015. "Chemoenzymatic synthesis and
	development of biodegradable, structurally persistent core-shell nano-architectures for drug delivery applications".
6.	Council of Scientific and Industrial Research (CSIR): Jan. 2012- July. 2015. "Design and Synthesis of 3-(4-Oxo-4H-chromen-
	3-yl)acrylates as Anti-inflammatory Agents".
7.	Defence Research Development Organization (DRDO): June 2011 – March 2015. "Design and Synthesis of Lead
	Antimicrobial Compounds for Defense Applications".
8.	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
	recombinant clones of C, P and N domains of Calreticulin.
9.	Department of Biotechnology (DBT): December 2005 – December 2010. Design and Synthesis of Novel Peptide Nucleic Acids
	with Improved Cell Permeability.
10.	Defence Research Development Organization (DRDO): September 2007 – March 2010. Design and Synthesis of Glycerol
	Based Building Blocks for Flame Retardant Polymers".
11.	Polytechnic University, New York, USA. 2006 – December 2009. Development of reactions and technologies in the
	generation of novel materials.
Or	ganization of Conferences
Cou	rse Coordinator: CPDHE Refresher course on Chemistry entitled "Advances in Chemical Science" conducted by the Centre for
Pro	fessional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi during October 27 – November 10, 2020.
Con	vener: Indo-German Workshop on 'Multivalent Macromolecular Architectures for Biomedical Applications', 5-6 April 2019,
Dep	artment of Chemistry, University of Delhi.
Con	vener: International Conference on Challenges in Carbohydrate Chemistry and Biology, CARBO-XXXI, 14-16 November 2016,
Dep	artment of Chemistry, University of Delhi.
Org	anizing Secretary: DU-JAIST Indo-Japan Symposium on 'Chemistry of Functional Molecules/Materials' on 26-27th February
201	6 at Department of Chemistry, University of Delhi.
Org	anizing Convener: 2 nd Indo-German Workshop on 'Supramolecular Chemistry' on 30 th March 2015 at Department of
Che	mistry, University of Delhi.
Org	anizing Secretary: 20th ISCB International Conference on Chemistry and Medicinal plants in Translational Medicine for
Hea	lthcare organized by Department of Chemistry, University of Delhi, 1 st – 4 th March 2014.
Org	anizing Convener: Indo-German Workshop on "New Perspectives for Nano Carriers in Biomedical Applications" on 14 th
Jan	uary 2013 at Department of Chemistry, University of Delhi.
Org	anizing Coordinator: 7th Indo – Italian workshop on "Chemistry and Biology of Antioxidants". 16th November 2010 –
org	anized by Department of Chemistry, University of Delhi and Embassy of Italy.
Org	anizing 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.
Org	anizing Secretary: International Symposium on trends in drug discovery and development (T3D – 2010). 5 – 8
Jan	uary 2010, organized by Department of Chemistry, University of Delhi.
Org	anizing Secretary: 6th Indo – Italian workshop on "Chemistry and Biology of Antioxidants". 10 - 11 December
200	9 – Organized by Department of Chemistry, University of Delhi and Embassy of Italy.
Org	anizing Secretary: 3rd Indo – Italian Seminar on Green Chemistry. 9 December 2009 – organized by Department of Chemistry,
Uni	versity of Deini and Embassy of Italy.

Secretary: IUPAC Sponsored Second International symposium on Green / Sustainable Chemistryon 10-13 January 2006 – organized by Department of Chemistry, University of Delhi and Embassy of Italy. 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

Conference Participation: 118

- 118. IVth National Conference on "Emerging Trends and Future Challenges in Chemical Sciences", 12-13 February 2024, Kirori Mal College, University of Delhi, Key Note Lecture "Targeted Drug Delivery: An Update".
- 117. 28th ISCB International Conference (ISCBC-2024), 8th 10th January, 2024, Marwadi University, Rajkot (Gujarat, India), Invited Lecture "Design and Development of Non-ionic Amphiphilic Architectures for Transdermal Drug Delivery Applications".
- 116. ASEAN-INDIA COLLABORATION POSTGRADUATE SEMINAR 2024, 7th February 2024, Universiti Kebangsaan Malaysia, Speaker "Design and synthesis of amphiphilic architectures for biomedical applications" (Online).
- 115. International Workshop on Polymeric Nano-architectures for Biomedical Applications, January 2023, Deenbandhu Chhotu Ram University of Science and Technology, Murthal (Sonepat), , Invited talk "Non-ionic Amphiphilic Nanotransporters for Biomedical Applications".
- 114. Special Summer School in Emerging Trends in Science and Technology, 11th August 2023, Mizoram University, "Recent updates in drug design and delivery".
- 113. **11th Asian Network for Natural and Unnatural Materials (ANNUM XI),** 3rd-7th July 2023, National Sun Yat-sen University in Kaohsiung, Taiwan, Invited Talk "Chemo-enzymatic synthesis of amphiphilic polymeric and dendritic architectures for biomedical applications".
- 112. Webinar on ' Novel Advances in Drug Delivery System', 27th April, 2023, Gujranwala Guru Nanak Khalsa College, Ludhiana.
- 111. International Conference, CARBOXXXVII: International Conference on Basic, Analytical and Allied Sciences at the Interface of Carbohydrates and Biomass Valorisation, November 30-December 02, 2023, Distinguished Speaker "Design and Development of Carbohydrate Based Nano-transporters and Catalysts for Oxidation and of Dye Degradation".
- 110. **17th International Conference on Polymer Science and Technology ("SPSI-MACRO-2023")**, 10-13 December, 2023. IIT Guwahati, Invited Talk "Design and Development of Non-ionic Amphiphilic Architectures for Transdermal Drug Delivery Applications".
- 109. International Conference on "Integrative Chemical Science for Health & Environment- 2023", 6th to 8th October, 2023, Deshbandhu College, University of Delhi, Invited Talk "Design and Development of Non-ionic Amphiphilic Nano-transporters for Biomedical Applications".
- 108. **GVK Biosciences Private Limited, Hyderabad**, 14 February 2020, Invited Talk "Bio catalytic synthesis of non-ionic Nano transporters for biomedical applications'.
- 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.
- 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.
- 105. International Conference (ICACSEM), 9-10 January, 2020, University of Madras, Chennai, Prof. Dr. T. Balakrishnan Endowment Lecture.
- 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.
- 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.
- **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.
- 101. NIISER Bhubaneswar, 5 July 2019, Invited Talk: Chemo-enzymatic synthesis of amphiphilic polymeric and dendritic architectures for biomedical applications
- 100. Indo-German Workshop on 'Multivalent Macromilecular 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 NanotransportBehaviour of Non-ionic Bolaamphiphiles for Biomedical 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.
- 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 Appllications.
- 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**, InstitutfürChemie und Biochemie, Freie Universität Berlin. Invited talk: Chemo-enzymatic Synthesis of Perfluoroalkylfunctionalized DendronizedPolymers 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, Compiegne, France. Plenary Lecture: Chemo-enzymatic Synthesis of Oligoglycerol Derivatives.
- 82. **30**th 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, Physiologyand Pharmacology of Oxidative Stress", 2-4 July, 2015 at SapienzaUniversity of Rome, Italy. Invited talk: Chromenone and quinolinone derivatives as potent antioxidant agents.
- 78. **21**st **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, Compiegne, France. Oral Communication: Cleaner & Greener Chemo-enzymatic Synthesis of Glycerol Based Value Added Products for Biomedical Applications.
- 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 Dester Presentation:
 - 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 Evalution of Their Antimicrobial activity.
 - iv. 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

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-XXVIIIorganized 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. preetiyadav, 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, Banglore, 12-17 th January
	2014.
	Poster Presentation:
	i. Mr. Shiv Kumar: DendronizedMultiamphiphilicNanocarriers 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 08-10 th 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 Buddh
	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, 6 th 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.	19 th ISCBInternational 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), 2-5 th March 2013.
	Invited Talk: Bio-catalytic Synthesis of Amphiphilic Polymeric and Dendritic rchitectures 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, 21-23 rd 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 Yaday: Two-photon active coumarin derivatives for high-contrast imaging of cancer cells.
	iii. Ms. Suchita Prasad and Ms. Preeti Yaday: Synthesis. Antiproliferative, and c-Src kinase Inhibitory Activities of
	Chromen-2-ones
	Participation: Mr. Shiv Kumar, Mr. Atul K. Sharma, Mr. Badri Parshad, Ms. Privanka Manchanda, Mr. Abhishek K. Sinah
59.	Indo-German Workshop on "New Perspectives for Nano-Carriers in Biomedical Applications" organized by Department of
	Chemistry University of Delhi Delhi on 14 th January 2013
	Poster presentation hv
	Mr. Shiy Kumar, Ms. Meena Kumari and Mr. Abhishek K. Sinah: Chemo-Enzymatic Synthesis of Amnhinhilic Polymeric and
	Dendritic Architectures for Biomedical Annlications
	Participation: Mr. Abdullah Khan, Mr. Atul K. Sharma, Mr. Badri Parshad, MsPreeti Yaday, MsSuchita Prasad, MsPriyanka
	Manchanda
58	National Carbohydrate Conference (CARBO-XXVIII) at CETRI Mysore Karnataka 13-15 December 2012
50.	Invited talk Gluceral Rased Polymeric and Dendritic Architectures for Riamedical Applications
57	2012 Sukant Tringthy Annual Memorial Symposium December 7, 2012 at the University of MA Lowell
57.	Invited talk: Chemo-enzymatic Synthesis of Riocomnatible Polymeric and Dendritic Architectures for Drug Delivery
	Annlications
56	Applications.
50.	Dester Presentation:
	rusici ricscilluliuii. Mr. Amit Kumari A Diversity Oriented Approach to Spirnindelines: Dest Uni Cold estabused Diseteroscolostics Destina
	ivir. Anni, Kumur. A Diversity-Orienteu Approuch to Spiroinuoines: Post-Ogi Gola-catalyzea Diastereoseiective Domino Cvelization
55	Cycliculiul. Salzhera Chemistry Seminar The City College of New York NY USA 12 November 2012
55.	Survery Chemistry Seminur. The City Concyc of New Tork, INT, USA, 12 NOVEITIDE 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 Quinolinones as Lead Antimicrobial Agents.
53.	Organic Group Seminar, University of Massachusetts Lowell, 14 September 2012.
F 2	12th Belging Organic Supposing (BOSS VIII) KULawan Belging 15, 20th July 2012
52.	13" Belgian Organic Synthesis Symposium (BOSS XIII), KO Leuven, Belgium 15-20" July 2012.
51	Purticipational Conference on Advances in Applied Chemical Sciences and Innovative Materials, JIT, Delhi on 10-12 August
51.	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 platinated nucleic acids and
	heterocyclic compounds.
48.	One day National Workshop on Recent Trends in Chemistry - 2011 (RTC-2011), Department of Chemistry,
	DeenbandhuChhotu 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.
45	Invited talk: Biocatalytic Synthesis of Polymeric Materials for Drug & Gene Delivery Applications.
45.	JAIST, Komatsu Japan, 9 ^{an} March 2010. Invited telly: Desire and Cysthesis of Polymonia and Dendritis Architectures for Drug Delivery. Applications
4.4	Invited talk: Design and Synthesis of Polymeric and Denaritic Architectures for Drug Delivery Applications.
44.	CARBO XXV- Silver Jubilee Conjerence of Association of Carbonyarate Chemists and Technologists, India. Organized by
	ACCTI unu Filinderiai Pradesii Oniversity, Silinia on 11-15 November 2010. Invited lecture: Novel Bio-catalytic Methods for the Synthesis of Biocompatible Polymeric / Dendritic Architectures
43	Tonics in Supramolecular Chemistry, Organized by Katholieke Universiteit Leuven, Belgium on 23-27 June 2010
45.	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 -2010International Symposium on trends in drug discovery and development. Organized by Department of Chemistry,
	University of Delhi, on 5-8 January 2010.
	Poster Presentations:
	Mis. Anjali Gupta: Specificities of Calreticulin Transacetylase to acetoxy derivatives of benzojurans. Awarded Best Poster
	ii. Mr. AbhaKathuria: Chanacterization of acetoxy quinoiones as an effective antipiatelet agent.
	iv. Ms. Shilai Gunta: Riocatalytic synthesis of PEG based conjugated polymer dendrimer architectures for drug delivery
	annlications
	v. Ms. Sarah Jalal: Chemoenzymatic approach for the synthesis of valuable triacyl alycerol based dendritic blocks.
39.	University of Rhode Island, USA5 th May 2009.
	Invited lecture:DNA Targeting to Control Abnormal Gene Activity.
38.	6 th 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.
37.	3 rd 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.	5 th 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
34	transacetylase and their role in activation of Nitric Oxide Synthase.
54.	3rd March 2009
	Invited Lecture: Biocatalytic synthesis of alycerol 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
22	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
32	Murch 2009.
52.	of Delhi on 27-28 February 2009
31.	ISCBC – 2009 ,13 th 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-aikyi-4-methyl coumarin for acetoxy drug: Protein
	irunsacelylase and their role in activation of Nitric Oxide Synthase.
30.	Indo-Japanese Seminar on Polymeric Advanced materials. Organized by Department of Chemistry. University of Delhi on
50.	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.	4 th Indo-Italian workshop on Chemistry and Biology of Antioxidants. Organized by Department of Chemistry, University of
	Delni and Embassy of Italy on 7 December 2008. Invited lecture: Antiovidant activitiv profile of various classes of organic Compounds
	Poster presentations:
	i. Ms. AbhaKathuria: Specificities of acetoxy derivatives of 3-alkyl-4-methyl coumarin for acetoxy drua: Protein
	transacetylase an 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
	ana Embassy oj Italy, on 5-6 December 2008. Poster precentation:
	Ms. Shilpi Gupta and Mr. Sumit Kumar: Chemo - enzymatic synthesis of PEG - Glycerol based Amnhinhillic Polymers
25.	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 amphiphillic polymers. – Awarded Best Poster
24	ii.Ms. Anjali Gupta: Synthesis of analogs of benzofuran-3-ones and their potential as antioxidants.
24.	5° Indo -Italian workshop on Chemistry and Biology of antioxidants. Organized by Department of Chemistry, University of Delhi, Embassy of Italy and CSIR (India) on 28–20 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.

i. Mr. Sumit Kumar, Shilpi Gupta: Chemo -enzymatic synthesis of Peg -glycerol based amphiphillic 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, 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. 21. 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. 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 -Isooxazilidines) 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 alycerol 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 amphiphillic 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 -hydroxylmethylfurano sugar in organic solvent.

6.	37thIupac Congress -Frontiers in Chemistry: Molecular basis of the life Sciences. 27 th GDCH general meeting. Organized by Department of Chemistry, Berlin (Germany), on 14-19 August 1999.					
5.	First University - Industry interaction meet on Lipase research: needs and components. Organized by Department of					
_	Microbioloay, 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.					
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 (±)-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.					
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					
2	nucleosides.					
Ζ.	National seminar on perspective in interfacial areas of Chemistry anabiology. Organized by Department of Chemistry,					
1						
1.	International symposium on recognition processes. Organized by RSC, University of Birmingham on 24-29 July 1994.					
То	tal Publication Profile					
In I	In Indexed/ Peer Reviewed Journals					
Art	Articles published: 155					
Rev	Review articles published: 15					
Pat						
Co	bilaborators					
Pr	ofessor Rainer Haag, FreieUniversitat Berlin, Germany					
Pr	rofessor Virinder S. Parmar, CUNY, USA					
Pr	ofessor Christophe LEN, Chimie ParisTech, France					
Pr	Professor Jayant Kumar, University of Massachusetts, Lowell, USA					
Pr	ofessor 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					
Ot	her Details					
Me	ember Reviewers committee of, Elsevier, Wiley, Scholar One, and many other journals.					
Sul	Subject expert/VC Nominee for promotion of Assistant and Associate Professors in colleges of Delhi University and other					
ins	titutes					

(Professor Sunil K. Sharma)

5 June 2025