




Faculty Details proforma for DU Web-site

Title	Professor	Diwan	S	Rawat	Photograph
Designation	Professor				
Address	Department of Chemistry, University of Delhi, Delhi-110007				
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Web-Page	http://www.du.ac.in/faculty_member_details.htm?id=1799 www.diwansrawat.webs.com				
Educational Qualifications					
Degree	Institution				Year
Ph.D.	Central Drug Research Institute, Lucknow, UP/Kumaun University, Nainital, UK				1998
M.Phil. / M.Tech.	NA				
PG	Kumaun University, Nainital, UK				1993 (First Position in the University)
UG	Kumaun University, Nainital, UK				1991
Any other qualification					
Career Profile					
<ul style="list-style-type: none"> • Professor, Department of Chemistry, University of Delhi, Delhi, 110007, India (March 2010-Till Date). • Associate Professor, Department of Chemistry, University of Delhi, Delhi, 110007, India (July 2006-March 2010). • Reader, Department of Chemistry, University of Delhi, Delhi, 110007, India (July 2003-July 2006). • Assistant Professor, Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research (NIPER), Mohali, Punjab, India (Nov 2002-July 2003). • National Institute of Health (NIH) Postdoctoral Fellow, Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University, West Lafayette, IN, USA (Sept 2001-Nov 2002). • American Cancer Society (ACS) Postdoctoral Fellow, Department of Chemistry, Indiana University, Bloomington, IN, USA, (Nov 1999-Sept 2001). • Scientist, R & D Department, Lupin Laboratories Ltd. Mandideep, M.P., India (Sept 1998-Nov 1999). Involved in the process and development of Lisinopril, quinalapril based antihypertensive drugs, and handled reaction on 50 kg scale. 					

- R & D Executive, **Panchsheel Org. Ltd. MP, India.** (Aug 1997-Sept 1998). Process and development of Loperamide hydrochloride, promethazine hydrochloride, and triclosan. Handled reaction on 50 kg scale.
- Research Fellow, **Central Drug Research Institute, Lucknow, India,** (April 1994-Aug 1997).

Administrative Assignments

- **Coordinator, M. Tech.** (Chemical Synthesis and Process Technologies), Department of Chemistry, University of Delhi (**December 2010 – June 2016**).
- **Provost, Jubilee Hall,** University of Delhi, Delhi (**May 2012 – January 2019**).
- **OSD, University Press, and Head, Graphic Art Centre,** University of Delhi, Delhi (**January 2011 – May 2017**).
- **Chairman, Governing Body,** Deeny Dayal Upadhyay College, University of Delhi, Delhi (**2019- Till Date**).
- **Treasurer, Governing Body,** Sir Aurvindo College, University of Delhi, Delhi (**2018-2019**).
- **Chairman, Governing Body,** Shaheed Rajguru College, University of Delhi, Delhi (**2011-2012**).
- **Treasurer, Governing Body,** Swami Shraddhanand College, University of Delhi, Delhi (**2011-2012**).
- **Treasurer, Delhi University Students Union (DUSU),** University of Delhi, Delhi (**2012-May 2017**).
- **Warden, Jubilee Hall,** University of Delhi (**September 2003 – May 2012**).

Areas of Interest / Specialization

Organic Synthesis, Medicinal Chemistry (synthesis of biologically active compounds: anticancer, antiviral, antibacterial, antifungal, and antimalarial), Natural and Marine Natural Products (bioactivity guided isolation of natural/marine natural products). Process development of drugs/drug intermediates.

Subjects Taught

- **MSc (University of Delhi, 2003 onwards)**
 1. Paper 102A: Organic Stereochemistry
 2. Paper 102B; Study of reactive intermediates
 3. Paper 202A: Spectroscopy
 4. Paper 202B: Methods in Organic Synthesis
 5. Paper 3201B: Heterocyclic Chemistry
 6. Paper 4203A: Terpens and Stereiods
 7. Paper 4203B: Alkaloids and Polyphenols
- **M.Tech-CSPT (University of Delhi)**
 1. Paper 102B: Name Reaction in Organic Synthesis
 2. Paper 201A: Reagents in Organic Synthesis
 3. Paper 201B: Newer Synthetic Reactions and Methodologies
- **M. Pharm (NIPER Mohali, 2002-2003)**
 1. Metals in organic synthesis
- **PhD (University of Delhi, 2003 onwards)**

1. Unit-XXV: Medicinal Chemistry
2. Unit XXXVI: Spectroscopy: Applications for Organic Chemist

Research Guidance

1. Supervision of awarded Doctoral Thesis

1. **Dr. Mukesh C. Joshi**, Title of thesis: "Synthesis and Biological Evaluation of Cyclic and Acyclic Eneidyne" Degree awarded: **2008**.
2. **Dr. Gopal S. Bisht**, Title of thesis: Designing, synthesis and characterization of antimicrobial peptides and study of their biological activity. Degree awarded: **2008**.
3. **Dr. Penny Josh**, Title of thesis: Synthesis of Phidolopin and Cyanuric Acid Analogues as Biodyanmic Agents. Degree awarded: **2008**
4. **Dr. Ritu Mangain**, Title of thesis: Synthesis and antimicrobial activity evaluation of substituted coumarins and coumarin-triazole conjugates. Degree awarded: **2009**.
5. **Dr. Himanshu Aethaya**, Title of thesis: Design, synthesis and characterization of modified tetraoxanes and tetraoxane-aminoquinolines as antimalarial agents, Degree awarded: **2009**.
6. **Dr. Mukul Sharma**, Title of thesis: Synthesis and characterization of biologically relevant natural product analogues and nitrogen heterocycles, Degree awarded: **2010**.
7. **Dr. Nitin Kumar**, Title of thesis: **Synthesis and biological evaluation of tetraoxane and curcumin analogues**, Degree awarded: **2011**.
8. **Dr. Beena Negi**, Title of thesis: Synthesis and Biological Activity Evaluation of Cyclohexane-1,2-diamine, Metronidazole, Curcumin and Thymol Derivatives, Degree awarded: **2012**.
9. **Dr. Sunny Manohar**: Title of thesis: Design, Synthesis and Biological Activity Evaluation of hybrid molecules based on 4-Aminoquinoline, Curcumin, Chalcon and Cyclohexyldiamine, Degree awarded: **2013**.
10. **Dr. Seema Joshi**: Title of thesis: Antimicrobial Peptides and peptidomimetics: Design, synthesis and Biological evaluation, Degree awarded: **2013**.
11. **Dr. Rini Joshi**: Title of thesis: Studies on protein acetyltransferase function of calreticulin, Degree awarded: **2013**.
12. **Dr. Deepak Kumar**, Title of thesis: A Library of aryls, alkyl aryls and heteroaryls as biodynamic agents. Degree awarded: **2014**.
13. **Dr Anuj Thakur**, Title of thesis: Design, facile synthesis and development of novel molecular hybrids as therapeutic agents. Degree awarded: **2016**
14. **Dr U. Chinna Rajesh**, Title of thesis: Design and Development of Nanocatalysts for Green and sustainable synthesis of Biologically active heterocycles. Degree awarded: **2016**
15. **V Satya Pavan**, Title of thesis: Facile and green synthesis of Biologically relevant heterocycles. **2017**.
16. **Mohit Tripathi**, Title of thesis: Rational Strategies for Facile synthesis of medicinally relevant and molecules and their Biological activity evaluation. **2017**.
17. **P. Linga Reddy**, Title of Thesis: Design and application of nanomaterials for organic transformations and synthesis of medicinal hybrids. **2017**.
18. **Rohit Kholiya**, Title of Thesis: Design and application of nanomaterials for organic transformations and synthesis of medicinal hybrids. **2018**.
19. **Shiv Shyam Maurya**, Title of Thesis: Design and synthesis of N, O & S containing heterocyclic molecular hybrids as biodynamic agents. (**Submitted 2019**).

2. Supervision of Doctoral Thesis, under progress

- **Registered PhD students:** Shamseer K. Kandi, Aparna Bahuguna, Upasana Gulati, Gunjan Purohit, Srishti Rawat, Manish Rawat, Gagandeep Sandhu,

3. Supervision of awarded M. Phil, M. Tech, M. Pharm and M.Sc. dissertations

- Nisha Agarwal (M. Phil); Sunny Manohar (M.Phil); Monika (M. Pharm); Shamsheer K. Kandi (M.Tech); Divya (M.Sc.)

Publications Profile

Books/Monographs (Authored/Edited)

- **Bioactive Marine Natural Products:** Dewan S. Bhakuni and **Diwan S. Rawat**, ISBN: 1-4020-3472-5 (2005), **Publishers: Springer, New York, USA, and Anamaya Publisher, New Delhi, India.**
- Book was forwarded by **Sir Derek Barton**, Noble Laureate.
- Book was reviewed by *Journal of American Chemical Society*, and comments were published in *J. Am. Chem. Soc.* 128, 4494 (2006).
- Book chapter entitled “**Organometallic and Organosulphur Compounds**” e-book on “Organic Chemistry” published by **National Science Digital Library**, [http://nsdl.niscair.res.in/dspace/handle/123456789/179/items-by-author?author=Rawat%2C+Diwan+S], 2008.
- Book chapter entitled “**Synthetic and Clinical Status of Marine Derived Anticancer Peptides**” in a book series Compendium of Bioactive Natural Products, Volume 7, Chapter 1, **M/S. Studium Press LLC , USA; Authros: Diwan S.Rawat,* Ram Singh, Nitin Kumar, Mukul Sharma, and M. S. M. Rawat P. 1-28 (2010).**
- **Science and Life:** Foundation Course under FYUP, University of Delhi (Co-Author, 2013).
- Book chapter entitled “Marine Natural Alkaloids as Anti-Cancer Agents” on **Opportunity, Challenge and Scope of Natural Products in Medicinal Chemistry’** Authors: Deepak Kumar, and **Diwan S Rawat***, PP 213-268 (2011); ISBN: 978-81-308-0448-4 (<http://www.trnres.com/ebookcontents.php?id=95>).
- Reviewed a book entitled “**Natural Products Chemistry**” to be published by Elsevier (**June 2007**).
- Reviewed a book entitled “**Organic Reaction Mechanism**” to be published by Macmillan India Ltd (**June 2008**).
- **Edited** especial issues of Anti-Cancer Agents in Medicinal Chemistry (*Published by Bentham*).

Research papers published in Refereed/Peer Reviewed Journals

PUBLICATIONS:

2019

1. Verma GM, Rawat M, **Rawat DS*** [Cp*Co(CO)I₂] Catalysed C–C bond formation and [2+2+2] annulation of 1,3-dicarbonyls to terminal alkynes, *Eur J Org Chem* <https://doi.org/10.1002/ejoc.201900725> (2019).
2. Tripathi M, Taylor D, Khan SI, Tekwani BL, Ponnann P, Velpandian T, Das U, **Rawat DS*** 2019, Hybridization of fluoro-amodiaquine (FAQ) with pyrimidines: Synthesis, *in vitro* and *in vivo* antimalarial potency of FAQ-pyrimidines, **ACS Med. Chem. Lett.** 10, 714–719 **Impact Factor: 3.84.**

3. Bahuguna A, **Rawat DS*** 2019, Recent trends and strategies for the anti-tubercular drug development, **Med. Res. Rev. Accepted**.
4. Rawat M, **Rawat DS*** 2019, CuI@Al₂O₃ catalyzed synthesis of 2-aminonicotinonitriles derivatives under solvent free condition, **Tetrahedron Lett.** **60**, 1153 – 1157 [**Highlighted in the Cover Page**], **Impact Factor: 2.379**.
5. Maurya SS, Bahuguna A, Khan SI, Kumar D, Kholiya R, **Rawat DS*** 2019, N-Substituted aminoquinoline-pyrimidine hybrids: Synthesis, *in vitro* antimalarial activity evaluation and docking studies. **Eur. J. Med. Chem.** **162**, 277 – 289 **Impact Factor: 4.816**.
6. Kumar P, Kandi SK, Manohar S, Mukhopadhyay K, **Rawat DS*** 2019, Monocarbonyl curcuminoids with improved stability as antibacterial agents against *Staphylococcus aureus* and their mechanistic studies, **ACS Omega**, **4**, 675 – 687.

2018

7. Negi B, Poonan P, Ansari MF, Kumar D, Aggarwal S, Singh R, Azam A, **Rawat DS*** 2018, Synthesis, antiamebic activity and docking studies of metronidazole-triazole-styryl hybrids. **Eur. J. Med. Chem.** **150**, 633 – 641, **Impact Factor: 4.816**.
8. Negi B, **Rawat DS*** 2018, Antituberculosis activity evaluation of thymol Schiff bases, **Chem. Biol. Interface.** **8**, 244-254.
9. Gulati U, Rajesh UC, **Rawat DS*** 2018, RGO@CuO Nanocomposites From A Renewable Copper Mineral Precursor: A Green Approach For Decarboxylative C(sp³)-H Activation Of Proline Amino Acid To Afford Value-Added Synthons. **ACS Sustainable Chem. Eng.** **6**, 10039–10051. **Impact Factor: 6.140**.
10. Rawat M, **Rawat DS*** 2018, Copper oxide nanoparticle catalysed synthesis of imidazo[1,2-a]pyrimidine derivatives, their optical properties and selective fluorescent sensor towards zinc ions. **Tetrahedron Lett.** **59**, 2341 – 2346. [**Highlighted in the Cover Page**], **Impact Factor: 2.379**. [**Highlighted by Synfacts 2018; 14(08): 0883**].

2017

11. Purohit G, Rajesh UC, **Rawat DS*** 2017, Hierarchically porous sphere-like copper oxide (HS-CuO) nanocatalyzed synthesis of benzofuran isomers with anomalous selectivity and their ideal green chemistry metrics. **ACS Sustainable Chem. Eng.** **5**, 6466 – 6477.
12. Tripathi M, Khan SI, Poonan P, Kholiya R, **Rawat DS*** 2017, Aminoquinoline-pyrimidine-modified anilines: Synthesis, *in vitro* antiplasmodial activity, cytotoxicity, mechanistic studies and ADME predictions, **ChemSelect**, **2**, 9074 – 9084 (2017).
13. Gulati U, Rajesh UC, Bunekar N, **Rawat DS*** 2017, Decarboxylative coupling strategy to afford N-heterocycles driven by silica nanosphere embedded copper oxide (Cu@SiO₂-NS). **ACS Sustainable Chem. Eng.** **5**, 4672 – 4682.
14. Reddy PL, Tripathi M, Arundhathi R, **Rawat DS*** 2017, Chemoselective hydrazine-mediated transfer hydrogenation of nitroarenes by Co₃O₄ nanoparticles immobilized on a Al/Si-mixed oxide support, **Chemistry - An Asian Journal**, **12**, 785 – 791.
15. Gulati U, Rawat S, Rajesh U, **Rawat DS*** 2017, CuO@Fe₂O₃ catalyzed C1-alkynylation of tetrahydroisoquinolines (THIQs) via A3 coupling and its decarboxylative strategies, **New J. Chem.** **41**, 8341-8346.
16. Gupta A, Kholiya R, **Rawat DS*** 2017, Lewis acid mediated tetrahydrofuran synthesis via [3+2] cycloaddition reaction of 2-arylcyclopropyl ketones with aldehydes, **Asian J. Org. Chem.** **6**, 993 – 997.

17. Reddy PL, Arundhathi R, Tripathi M, Chauhan P, Yan N, **Rawat DS*** 2017, Solvent free oxidative synthesis of 2-substituted benzimidazoles by immobilized cobalt oxide nanoparticles on alumina/silica support, **ChemSelect**, **2**, 3889 – 3895.
18. Reddy PL, Khan SI, Ponnann P, Tripathi M, **Rawat DS*** 2017, Design, synthesis and evaluation of 4-aminoquinoline-purine hybrids as potential antiplasmodial agents; **Eur. J. Med. Chem.** **126**, 675-686.
19. Negi B, Kumar D, **Rawat DS*** 2017, Marine peptides as anticancer agents: A remedy to mankind by nature, **Curr. Protein Pept. Sci.** **18**, 885-904.
20. Kholiya R, Khan SI, Bahuguna A, Tripathi M, **Rawat DS*** 2017, N-Piperonyl substitution on aminoquinoline-pyrimidine hybrids: Effect on the antiplasmodial potency; **Eur. J. Med. Chem.** **131**, 126 – 140.
21. Maurya SS, Khan SI, Kumar D, Bahuguna A, **Rawat DS*** 2017, Synthesis, antimalarial activity, heme binding and docking studies of N-substituted 4-aminoquinoline-pyrimidine molecular hybrids; **Eur. J. Med. Chem.** **129**, 175 – 185.
2016
22. Rajesh UC, Gulati U, **Rawat DS*** 2016, Cu(II)-Hydromagnesite catalyzed synthesis of tetrasubstituted propargylamines and pyrrolo[1,2-a]quinolines via KA2, A3 couplings and their decarboxylative versions, **ACS Sustainable Chem. Eng.** **4**, 3409 – 3419.
23. Reddy PL, Arundhathi R, Tripathi M, **Rawat DS*** 2016, CuI nanoparticles mediated expeditious synthesis of 2-substituted benzimidazoles using molecular oxygen as oxidant, **RSC Adv**, **6**, 53596 - 53601.
24. Rajesh UC, Pavan VS, **Rawat DS*** 2016, Copper supported hematite NPs as magnetically recoverable nanocatalysts for one-pot synthesis of aminoindolizines and pyrrolo[1,2-a]quinolines, **RSC Adv**, **6**, 2935 – 2943. **Highlighted in SYNFACTS 02016, 12(4), 0427.**
25. Negi B, Kumar D, Kumbukgolla W, Jayaweera S, Ponnann P, Singh R, Agarwal S, **Rawat DS*** 2016, Anti-methicillin resistant *Staphylococcus aureus* activity, synergism with oxacillin and molecular docking studies of metronidazole-triazole hybrids, **Eur. J. Med. Chem.** **115**, 426 – 437.
26. Anthwal A, Singh K, Rawat M.S.M., Tyagi AK, Haque A, Ali I, **Rawat DS*** 2016, Synthesis of 4-piperidone based curcuminoids with anti-inflammatory and anti-proliferation potential in human cancer cell lines, **Anti Cancer Agents Med Chem**, **16**, 841-851.
2015
27. Rajesh UC, Pavan VS, **Rawat DS*** 2015, Hydromagnesite rectangular thin sheets as efficient heterogeneous catalysts for the synthesis of novel 3-substituted indoles via Yonemitsu-type condensation in water, **ACS Sustainable Chem. Eng.** **3**, 1536 – 1543.
28. Reddy PL, Arundhathi R, **Rawat DS*** 2015, Cu(0)@Al₂O₃/SiO₂ NPs: Efficient Reusable Catalyst for the Cross Coupling Reactions of Aryl Chlorides with Amines and Anilines, **RSC Adv**, **5**, 92121-92127. **Highlighted in SYNFACTS 2016, 12(2), 0214.**
29. Negi B, Kumar D, **Rawat DS*** 2015,, Marine peptides as anticancer agents: A remedy to mankind by nature, **Curr. Protein Pept. Sci.** **Accepted.**
30. Joshi S, Dewangan RP, Yar MS, **Rawat DS**, Pasha S. 2015, N-Terminal aromatic tag induced self assembly of tryptophan-arginine rich ultra short sequences and their potent antibacterial activity, **RSC Adv**, **5**, 68610 – 68620.
31. Thakur A, Reddy PL, Tripathi M, **Rawat DS*** 2015, Facile construction of 3-indolochromenes and 3-indoloxanthenes via EDDF catalyzed one-pot three component reactions. **New J. Chem.** **39**, 6253 – 6260.

32. Rajesh UC, Purohit G, **Rawat DS*** 2015 Facile one-pot synthesis of N-heterocycles using CuI/CSP composites as efficient recyclable nanocatalysts with anomalous selectivity under green conditions, **ACS Sustainable Chem. Eng.** 3, 2397 – 2404.
33. Kumar D, Negi B, **Rawat DS*** 2015 The Current Anti-TB Agents and the Challenges Ahead. **Fut. Med. Chem.** 7, 1981 – 2003, **Invited article.**
34. Manohar S, Pavan VS, Taylor D, Kumar D, Ponnann P, Wiesner L, **Rawat DS*** 2015, Highly active 4-aminoquinoline-pyrimidine based molecular hybrids as potential next generation antimalarial agents, **RSC Adv** 5, 28171 – 28186.
35. Joshi P, **Rawat DS*** 2015, Synthesis and characterization of theophylline-triazole and theophylline-triazole-coumarin based molecular hybrids, **Ind. J. Het. Chem.** 24, 411 – 418. **Invited article.**
36. Manohar S, Thakur A, Bhatia R, Walia S, Ponnann P, **Rawat DS*** 2015, Antibacterial and Antioxidant Activity Evaluation of Novel Symmetrical and Unsymmetrical C5-Curcuminoids, **Ind J. Chem Sec B**, 54B, 1235 – 1246.
37. Tripathi M, Khan SI, Thakur A, Ponnann P, **Rawat DS*** 2015, 4-Aminoquinoline-pyrimidine-aminoalkanol: Synthesis, *in vitro* antimalarial activity, docking studies and ADME predictions, **New J. Chem.** 39, 3474 – 4383.
38. Rajesh UC, Kholiya R, Thakur A, **Rawat DS*** 2015, [TBA][Gly] ionic liquid promoted multi-component synthesis of 3-substituted indoles and indolyl-4*H*-chromenes” **Tetrahedron Lett.** 56, 1790 - 1793.
39. Kumar D, Khare G, Beena, Kidwai S, Tyagi AK, Singh R, **Rawat DS*** 2015, Novel isoniazid-amidoether derivatives: Synthesis, characterization and antimycobacterial activity evaluation, **Med. Chem. Commun.** 6, 131 - 137.
40. Rajesh UC, Wang J, Prescott S, Tsuzuki T, **Rawat DS*** 2015, RGO/ZnO nanocomposite: An efficient sustainable heterogeneous amphiphilic catalyst for the synthesis of 3-substituted indoles in water. **ACS Sustainable Chem. Eng.** 3, 9 – 18 [**Highlighted in the Cover Page**].
41. Kandi SK, Manohar S, Vélez Gerena CE, Zayas B, Malhotra SV, **Rawat DS*** 2015; C5-curcuminoid-4-aminoquinoline based molecular hybrids: Design, synthesis and mechanistic investigation of anticancer activity, **New J. Chem.** 39, 224 - 234 (2015).
42. Kumar D, Khan SI, Poonann P, **Rawat DS*** 2015 “4-Aminoquinoline-pyrimidine hybrids: Synthesis, antimalarial activity, heme binding and docking studies” **Eur. J. Med Chem.** 89, 490 - 502.
43. Raj KK, Manohar S., Talluri VR , **Rawat DS*** 2015 Insights into activity enhancement of 4-aminoquinoline based hybrids using atom-based and field-based QSAR Studies, **Med. Chem. Res.** 24, 1136- 1154.
44. Joshi R., Rohil V., Arora S., **Rawat DS.**, Raj H. G. et al, 2015, The competence of 7, 8-diacetoxy-4-methylcoumarin and other polyphenolic acetates in mitigating the oxidative stress and their role in angiogenesis, **Curr. Topics Med. Chem.** 15, 179 – 186.

2014

45. Kumar, D.; Khan, S. I.; Ponnann, P.; **Rawat, D. S.***, 2014, Triazine-pyrimidine based molecular hybrids: Synthesis, docking studies and antimalarial activity evaluation, **New J. Chem.** 38, 5087-5095.
46. Kumar, D.; Khan, S. I.; Ponnann, P.; **Rawat, D. S.***, 2014, Synthesis, antimalarial activity, heme binding and docking studies of 4-aminoquinoline-pyrimidine based molecular hybrids, **RSC Adv** 4, 63655 – 63669.
47. Rajesh, U. C.; Divya; **Rawat, D. S.***, 2014, Functionalized superparamagnetic Fe₃O₄ as an

- efficient quasi-homogeneous catalyst for multi-component reactions, **RSC Adv** 4, 41323-41330.
48. Kumar, D.; Beena; Khare, G.; Kidwai, S.; Tyagi, A. K.; Singh, R.; **Rawat, D.S.***, 2014, Synthesis of novel 1,2,3-triazole derivatives of isoniazid and their *in vitro* and *in vivo* antimycobacterial activity evaluation, **Eur. J. Med Chem.** 81, 301 - 313.
49. Beena; Raj, K. K.; Siddiqui, S. M.; Ramachandran, D.; Azam, A.; **Diwan S. Rawat, D. S.***, 2014, Metronidazole-Triazole Hybrids as *Entamoeba histolytica* Thioredoxin Reductase Inhibitors and their *In Vitro* Antiamoebic Activity Evaluation. **Chem. Med. Chem.** 9, 2439 - 2444.
50. Manohar, S.; Tripathi, M.; **Rawat, D. S.***, 2014, 4-Aminoquinoline based molecular hybrids as antimalarials: An Overview, **Curr. Top. Med. Chem.** 14, 1706 - 1733.
51. Anthwal, A.; Singh, K.; Rawat, M. S. M.; Tyagi, A. K.; Aggarwal, B. B.; **Rawat, D. S.***, 2014, C5-curcuminoid-dithiocarbamate based molecular hybrids: Synthesis, anti-inflammatory and anti-cancer activity evaluation. **RSC Adv** 4, 28756 - 28764.
52. Anthwal, A.; Rajesh, U. C.; Rawat, M. S. M.; Kushwaha, B.; Maikhuri, J. P.; Sharma, V. L.; Gupta, G.; **Rawat, D. S.***, 2014, Novel metronidazole-chalcone conjugates with potential to counter drug resistance in *Trichomonas vaginalis*, **Eur. J. Med. Chem.** 79, 89 - 94.
53. Anthwal, A.; Thakur, B.; Rawat, M. S. M.; **Rawat, D. S.***; Tyagi, A. K.; Bharat B. Aggarwal, B. B. 2014, Synthesis, characterization and *in vitro* anticancer activity of C-5 curcumin analogues with potential to inhibit TNF- α -induced NF- κ B activation, **Biomed. Res. Int. Article ID 524161**, <http://dx.doi.org/10.1155/2014/524161>.
54. Thakur, A.; Manohar, S.; Vélez Gerena, C. E.; Zayas, B.; Kumar, V.; Sanjay V. Malhotra, S. V.; **Rawat, D. S.***, 2014, Novel 3,5-bis(arylidene)-4-piperidone based monocarbonylanalogs of curcumin: Anticancer activity evaluation and mode of action study, **Med. Chem. Commun.** 5, 576 - 586.
55. Anuj Thakur, Shabana I. Khan, **Diwan S. Rawat***, 2014, Synthesis of piperazine tethered 4-aminoquinoline-pyrimidine hybrids as potent antimalarial agents. **RSC Adv.** 4, 20729 - 20736.
56. Rajesh, U. C.; Kholiya, R.; Pavan, V. S.; **Rawat, D.S.***, 2014, Catalyst free, ethylene glycol promoted one-pot three component synthesis of 3-amino alkylated indoles *via* Mannich-type reaction, **Tetrahedron Letters**, 55, 2977 - 2981.
57. Tripathi, M.; Reddy, P. L.; **Rawat, D. S.***, 2014, Noscapiene and its analogues as anti-cancer agents, **Chem Biol Interface** 4, 1 - 22.
58. Mangain, R.; Atheaya, H.; Khan, S. I.; Manohar, S.; **Rawat, D. S.***, 2014, Synthesis of novel 1,2,3-triazole incorporated quinoline derivatives *via* click chemistry and evaluation of their antimalarial activity, **J. Ind. Chem Soc.** 91, 1443 - 1450, (*Invited article for Professor K. C. Joshi Birthday Commemoration Issue*).
59. Beena; Kumar, D.; Kumbukgolla, W.; Jayaweera, S.; Bailey, M.; Alling, T.; Ollinger, J.; Parish, T.; **Rawat, D. S.***, 2014, Antibacterial activity of adamantyl substituted cyclohexane diamine derivatives against methicillin resistant *Staphylococcus aureus* and *Mycobacterium tuberculosis*, **RSC Adv.** 4, 11962 - 11966.
60. Rajesh, U. C.; Gupta, A.; **Rawat, D. S.***, 2014, Approaches to the total synthesis of natural quinolizidine alkaloid (+)-epiquinamide and its isomers: An overview, **Curr. Org. Synth.** 11, 627 - 646.
61. Manohar, S.; Thakur, A.; Khan, S. I.; Ni, N.; Wang, B.; **Rawat, D. S.***, 2014, Synthesis of unsymmetrical C5-curcuminoids as potential anticancer and antimalarial agents. **Lett. Drug Des. Discov.** 11, 138 - 149.
62. Kumar, D.; Raj, K. K.; Malhotra, S. V.; **Rawat, D. S.***, 2014, Synthesis and anticancer activity evaluation of resveratrol-chalcone conjugate. **Med. Chem. Commun.** 5, 528 - 535.

63. Manohar, S.; Pepe, A. Vélez Gerena, C. E.; Zayas, B.; Malhotra, S. V.; **Rawat, D.S.***, 2014, Anticancer activity of 4-aminoquinoline-triazine based molecular hybrids, **RSC Adv.** 4, 7062 - 7067.
64. Beena, Kumar, D.; Bailey, M. A.; Parish, T.; **Rawat, D.S.***, 2014, Synthesis and antituberculosis activity evaluation of cyclohexane-1,2-diamine derivatives, **Chem Biol Interface**, 4, 23-36.
65. Joshi, P.; Tripathi, M.; **Rawat, D. S. ***, 2014, Synthesis and characterization of novel 1,2,3-triazole-linked theophylline and coumarin s-triazines. **Ind. J. Chem.** 53B, 311 - 318.
66. Arya, K.; Tomar, R.; **Rawat, D.S.***, 2014, Greener synthesis and photo-antiproliferative activity of novel fluorinated benzothiazolo[2, 3-b]quinazolines. **Med. Chem. Res.** 23, 896 - 904 (2014).

2013

67. Rajesh, U. C.; Manohar, S.; **Rawat, D. S.***, 2013, Hydromagnesite as an efficient novel recyclable heterogeneous solid base catalyst for the synthesis of flavanones, flavanols and 1,4-dihydropyridines in water. **Adv. Synth. Catal.** 355, 3170-3178.
68. **Rawat, D. S.***, Singh, R.; 2013, Plant derived secondary metabolites as anti-cancer agents. **Anti-Cancer Agents-Med. Chem.** 13, 1551.
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1. Other publications (Patents, Book reviews, etc.)

Patents:

1. **Diwan S Rawat***, Binghe Wang, Nitin Kumar, Sunny Manohar, Xiaochuan Yang, Guojing Sun, Curcumin analogues and methods of making and using thereof. **US 2015/0152056A1, June 4, 2015**.
2. **Diwan S Rawat***, Sunny Manohar, Ummadisetty Chinna Rajesh, Deepak Kumar, Anuj Thakur, Mohit Tripathi, Panyala Linga Reddy, Shamseer Kulangara Kandi, Satyapavan Vardhineni, Kwang-Soo, and Chun-Hyung Kim, Amino-quinoline based hybrids and uses thereof. **US2015/0023930 A1 (2015)**.
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5. **Diwan S Rawat***, Sunny Manohar, U. Chinna Rajesh, Amino-quinoline based hybrids and uses thereof, **Indian Patent Application 661/DEL/2012**.
6. **Diwan S. Rawat*** Mukul Sharma, Nilanjan Roy, Rajesh K. Rohilla, Substituted cyclohexane-1,2-diamine derivatives and related compounds as antimicrobial agents. **Application No: 1462/DEL/2008**.
7. **Diwan S. Rawat***, Nitin Kumar, Mukul Sharma, Symmetrically and asymmetrically substituted tetraoxane compounds, methods of preparation and uses thereof. **Application No: 2103/DEL/2008**.
8. Jeffrey M. Zaleski; **Diwan Singh Rawat**, Eneidyne compounds and methods related thereto. **US Patent No: US 7,211,603 B1 (2007)**.
9. Jeffrey M. Zaleski; **Diwan Singh Rawat**, Compounds, compositions, and methods for photodynamic therapy. **US Patent No: US 6,828,439 B1 (2004)**.

Book review/editing:

- a. Review of the book was published in *Journal of American Chemical Society (J. Am. Chem. Soc.* 128, 4494, 2006).
- b. Reviewed a book entitled “**Natural Products Chemistry**” to be published by Elsevier (**June 2007**).
- c. Reviewed a book entitled “**Organic Reaction Mechanism**” to be published by Macmillan India Ltd (**June 2008**).
- d. **Edited** especial issues of Anti-Cancer Agents in Medicinal Chemistry (*Published by Bentham*).

Conference Organization/ Presentations (in the last three years)

List against each head(If applicable)

1. **Organization of a Conference**
2. **Participation as Paper/Poster Presenter**

1. **Diwan S Rawat** “NMR spectroscopy and its role in structure determination” Dolphin Institute, Dehradun, April 27, 2019.
2. **Diwan S Rawat** “Sustainable development via nano-catalysis” Global Conference on Control of Green House Gases at the Source by Physical and Chemical Technology, BBAU, Lucknow, April 22-24, 2019.
3. **Diwan S Rawat** “Development of organic chemistry and its impact on human health”, BITS, Pilani, April 18, 2019.
4. **Diwan S Rawat** “Chemistry, sustainable development and human health”, Hansraj College, University of Delhi, March 16, 2019.
5. **Diwan S Rawat** “Chemistry, sustainable development and human health”, Hansraj College, University of Delhi, March 16, 2019.
6. **Diwan S Rawat** “Road of drug discovery: from idea to bench to market”, National conference on chemistry and human health, Aurvindo College, March 8, 2019.
7. **Diwan S Rawat** “Organic spectroscopy and its role in structure determination”, ARSD College, Delhi, March 1, 2019.
8. **Diwan S Rawat** “NMR spectroscopy: basic introduction to structure determination”, Sriram Institute, Delhi, February 27, 2019.
9. **Diwan S Rawat** “NMR: Basic introduction to structure determination”, 3rd One day National Conference: New Horizons in Drug Discovery and Development, the Role of NMR, Jamia Hamdard, February 18, 2019.
10. **Diwan S Rawat** “Science of medicinal chemistry in the discovery of medicines: From ideas to trenches to market”, 11th NIPER (R) Symposium on Natural products based therapeutics in drug development: NIPER Raebarelli, February 14-15, 2019.
11. **Diwan S Rawat** “Lead identification *via* rational drug design”, 25th ISCB International Conference, Trends in chemical and biological sciences: Impact on health and environment, Lucknow, January 12-14, 2019.
12. **Diwan S Rawat**, “An art of drug discovery” HNB Central University, Srinagar. **April 27-28, 2018 [Key Note Speaker]**.
13. **Diwan S Rawat**, “Hybridization approach: An alternative of combination therapy in medicinal chemistry” DAV University, Indore, **March 24, 2018 (Key Note Speaker)**.
14. **Diwan S Rawat**, “Joy of drug discovery” Amity University, Manesar, **February 6, 2018**.
15. **Diwan S Rawat**, “Characterization of organic compounds by spectroscopic techniques” National Tobacco Research Laboratory, Noida, **January 30, 2018**.

16. **Diwan S Rawat**, "Systematic structural variation: The way of drug development" National conference on Chemical sciences: An interdisciplinary approach, Modern College of Arts, Science and Commerce, Pune, **January 18-20, 2018**.
17. **Diwan S Rawat**, "Aminoquinolines: Exploration of medicinal potential" Emerging trends in drug development and natural products, University of Delhi, **January 12-14, 2018**.
18. **Diwan S Rawat**, "Molecular hybridization a new approach drug discovery" School of Material Sciences, Japan Advanced Institute of Science and Technology, **October 5, 2017**.
19. **Diwan S Rawat**, "Molecular hybridization: Reality or myth" Toyama University, Toyama, **October 4, 2017**.
20. **Diwan S Rawat**, "Molecular hybridization and drug discovery" Almeno Pvt Ltd Hyderabad, **September 9, 2017**.
21. **Diwan S Rawat**, "Nano-catalysis and Sustainable Synthesis" Indian Institute of Technology (ISM) Dhanbad, **June 15, 2017**.
22. **Diwan S Rawat**, Organic Spectroscopy: Entertainment or Melancholy, Indian Institute of Technology (ISM) Dhanbad, **June 15, 2017**.
23. **Diwan S Rawat**, "Why young minds should persue chemistry" Hansraj College, **April 10, 2017**.
24. **Diwan S Rawat**, "Sustainable nanocatalysts for organic transformation" JAIST Japan-India Symposium on Materials Science 2017" Japan Advanced Institute of Science and Technology, **March 6 - 7, 2017**.
25. **Diwan S Rawat**, "Molecular hybrid based drug design: A lesson from the nature" 23rd ISCB International Conference (ISCBC - 2017) "Interface of Chemical Biology in Drug Research" SRM University, Chennai, **February 8 - 10, 2017**.
26. **Diwan S Rawat**, "Nano-catalysis and sustainable synthesis" National conference on innovation in chemical sciences, Shivaji University, Kolhapur, Kolhapur, **February 1 - 2, 2017 (Key Note Address)**.
27. **Diwan S Rawat**, "Chemistry, human health and environment" INSPER-Mentor, GD Goenka University, Gurgaon, **January 13, 2017**.
28. **Diwan S Rawat**, "How to make spectroscopy instresting?" Refresher course for college teachers, Jawaharlal Nehru University, Delhi, **January 5, 2017**.
29. **Diwan S Rawat**, "Catalysis on the Nanoscale: Preparation and Application in Multi-component Organic Synthesis" Asian Network for Natural and Unnatural Materials (ANNUM-IV, 2016), National University of Singapore, **June 8 - 11, 2016**.
30. **Diwan S Rawat**, "Molecular hybrid based drugs", International Conference on Frontiers at the Chemistry-Allied Sciences Interface, Department of Chemistry, University of Rajasthan, **April 25-26, 2016**.
31. **Diwan S Rawat**, "Nano materials and their application in organic conversions", National Conference on Chemistry: Environment and Harmonious Development and Ecosystems, Shyamlal College, Delhi, **April 7-8, 2016 (Plenary Lecture)**.
32. **Diwan S Rawat**, "Recent advances in the development of molecular hybrids based drug, National Conference on Chemistry and Ecosystems, Arya PG College, Panipat, **March 19, 2016 (Plenary Lecture)**.
33. **Diwan S Rawat**, "Aminoquinoline based molecular hybrids: From antimalarial to anti-Parkinson potential, 103rd Indian Science Congress, University of Mysore, Mysore, **January 3-**

7, 2016 (Prof RC Shah Memorial Award).

34. **Diwan S Rawat**, "Antimalarial and anti-Parkinson potential of aminoquinoline based molecular hybrids, 52nd Annual Convention of Chemist2 1015 and International Conference on Recent Advances in Chemical Sciences, JECRC University, Jaipur, **December 29-30, 2015.**
35. **Diwan S Rawat**, "Hybrid durgs: An alternative method of designing new drug molecules" National seminar on chemistry and healthcare, Jamia Millia Islamia, Delhi, **December 17, 2015.**
36. **Diwan S Rawat**, "Significance of chemical education" INSPIRE camp, SRM University, **December 16, 2015.**
37. **Diwan S Rawat**, "Life of a chemist without spectroscopy" TEQUIP-II Sponsored Short Term Coruse on Recent Trends in Synthetic Chemistry and its Relevance, NIT, Jalandhar, **December 07 - 13, 2015.**
38. **Diwan S Rawat**, "Spectroscopy: Introduction to structure determination" TEQUIP-II Sponsored Short Term Coruse on Recent Trends in Synthetic Chemistry and its Relevance, NIT, Patna, **December 10 - 11, 2015 (Chief Guest, Key Note Lecture).**
39. **Diwan S Rawat**, "Moleculr hybridization in drug discovery: A myth or reality" Current Challenges in Drug Discovery Research" MNIT, Jaipur, **November 23-25, 2015 (Planary Lecture).**
40. **Diwan S Rawat**, "Catalysis at nano scale: One step towards green and sustainable processes" JAIST Symposium on Advanced Science and Technology, Japan Advanced Institute of Sceicne and Technology, Japan, **November 10 - 12, 2015.**
41. **Diwan S Rawat**, "Nanocatalysis for sustainable society" National Workshop on "Recent Trends in Environmental Science and Carbon Management"(RTCM-2015), Central University Himanchal, **November 19-20, 2015.**
42. **Diwan S Rawat**, "Hybrid drugs: A myth or reality" National Conference on Innovation, Advance Research in Biomedical and Environmental Dynamics, Dayal Singh College, Delhi University, **October 09 - 10, 2015**
43. **Diwan S Rawat**, "Molecular hybridization in drug discovery" National Conference on Science and Technology for Indegenous Development in India, Indian Science Congress Associattion: Haridwar Chapter, Gurukul Kangari University, Haridwar, **September 28 - 30, 2015.**
44. **Diwan S Rawat**, "Challenges and new opportunities in drug discovery" Chem Fest, Hindu College, University of Delhi, **August 22, 2015.**
45. **Diwan S Rawat**, "Medicinal chemistry: Challenges and new approaches" National Inter-Disciplinary Science Conference-2015, Recent Research Trends in Chemical and Environmental Sciences, Sri Pratap College, Srinagar, **August 18 - 19, 2015.**
46. **Diwan S Rawat**, "Molecular hybrids: An innovative approach in drug discovery" Drug Discovery and Therapy World Congree - 2015 (DDTWC 2015), Boston **July 22 - 25, 2015.**
47. **Diwan S Rawat**, "Medicinal chemistry: Opportunities and challenges" McLean Hospital, Harvard University, Boston **July 20, 2015.**
48. **Diwan S Rawat**, "Spectrosocpic tools for organic chemist: An introduction" CPDHE Refresher Course, **University of Delhi, June 30, 2015.**
49. **Diwan S Rawat**, "**Nanocatalysis: A Green and Sustainable Approach Towards Organic Synthesis**" National Conference on Science and Technology for Human Development, Gurukul Kangari University, Haridwar. **March 20-21, 2015.**

50. **Diwan S Rawat**, “**Nanocatalysis in Multicomponent Organic Synthesis: A Green and Sustainable Approach**” Indo-Japan Symposium of Material Sciences, Department of Material Sciences, Japan Advanced Institute of Science and Technology (JAIST), Japan. March 2-3, 2015.
51. **Diwan S Rawat**, “**Molecular hybridization: a useful tool in the design of new drug prototype**” 21st ISCB International Conference on Current trends in drug discovery and developments, Central Drug Research Institute, Lucknow. **February 25 to 28, 2015.**
52. **Diwan S Rawat**, “**Nano Materials as Heterogeneous Catalyst in Multicomponent Organic Synthesis: One Step Towards Green and Sustainable Processes**” International Conference on Green Initiatives in Science and Technology-GIST 2015, Department of Chemistry, Manav Rachana University, Faridabad. **January 15, 2015.**
53. **Diwan S Rawat**, “**Future of molecular hybridization in drug discovery**” National Seminar on Relevance of Medicinal Plants in 21st Century, Department of Botany, Ramjus College. **February 10 – 11, 2015.**
54. **Diwan S Rawat**, “**NMR Spectroscopy and its applications**” CPDHE Refresher Course, Delhi Technological University, Delhi, **21st December, 2014.**
55. **Diwan S Rawat**, “**Heterogeneous Catalysis in Multicomponent Organic Synthesis: One Step Towards Green Processes**”, Indian Council of Chemist 33rd Annual National Conference, Department of Applied Chemistry, Indian Institute of Mines, Dhanbad, **15th – 17th December 2014.**
56. **Diwan S Rawat**, “**Molecular Hybrids: An Innovative Approach in Drug Discovery Paradigm**” 4th Biennial International Conference on New Development in Drug Discovery from Natural Products and Traditional Medicines, Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), Mohali. **20th – 22nd November, 2014.**
57. **Diwan S Rawat**, “**Novel Drug Candidate Based on 4-Aminoquinoline and Pyrimidine Pharmacophore for the Treatment of Malaria**” National Seminar on Recent Advances in Medicinal Chemistry, Department of Chemistry, Lucknow Christian P. G. College, Lucknow. **7th – 9th November, 2014.**
58. **Diwan S Rawat**, “**Spectroscopy: Introduction to Structure Elucidation**” CPDHE Refresher Course, Jamia Millia Islamia University, Delhi, **25th October, 2014.**
59. **Diwan S Rawat**, “**Pros and cons of drug development**” KM College, University of Delhi, **24th September, 2014.**
60. **Diwan S Rawat**, “**Excitement and agony of a medicinal chemist!**” Deen Dayal Upadhaya College, University of Delhi, **26th August, 2014.**
61. **Diwan S Rawat**, “**Aminoquinoline pharmacophore: It’s impossible to abandon!**” Him Science Congress Association, 2nd Annual National Conference - Science: Emerging Scenario & Future Challenges, Shimla, **17-18 May, 2014.**
62. **Diwan S Rawat**, “**Discovery of lead antimalarial through rational drug design**” International conference on Drugs for Future: Infectious Diseases, **NIPER Hyderabad, March 27-28, 2014.**
63. **Diwan S Rawat**, “**NMR Spectroscopy and its Role in Structure Determination**” M.J.P ROHILKHAND UNIVERSITY, February 21, 2014.
64. **Diwan S Rawat**, “**Drug Discovery: Long Road with Complete Uncertainty**”, Gautam Budha University, Noida, *Science Day Celebration, February 28, 2014.*
65. **Diwan S Rawat**, “**History of chemical and nano sciences**” UGC-SAP National Symposium on recent trends in chemical and nano sciences. Shivaji University, Kolhapur, **January 17-18, 2014 (Address as a Chief Guest).**

66. **Diwan S Rawat**, "Aminoquinoline based molecular hybrids as potential antimalarials" UGC-SAP National Symposium on recent trends in chemical and nano sciences. Shivaji University, Kolhapur, **January 17-18, 2014 (Key Note Address)**.
67. **Diwan S Rawat**, "Identification of lead antimalarial through virtual screening" 8th Utrakhnad Science and Technology Congress" Doon University, Dehradun. **December 26-28, 2013 (Lead Lecture)**.
68. **Diwan S Rawat**, "Discovery of Aminoquinoline Based Hybrids as Potential Antimalarial" National Conference on Recent Trends in Chemistry Education" Department of Chemistry, Sir Sayyed College of Arts, Commerce and Science, Aurangabad. **December 13-14, 2013**.
69. **Diwan S Rawat**, "Recyclable catalysis in Organic Synthesis: One Step towards Green processes" Workhardt Research Centre, Aurangabad. **December 13, 2013**.
70. **Diwan S Rawat**, "Medicinal Chemistry: Basics to Drug Discovery-DST INSPIRE Camp, HNB Garhwal Central University, Srinagar **December 11, 2013**.
71. **Diwan S Rawat**, "Medicinal Chemistry: An Ever Green Area with Complete Uncertainty" **University Institute of Pharmaceutical Sciences, Punjab University, Chandigarh, November 18 - 21, 2013**.
72. **Diwan S Rawat**, "NMR Spectroscopy: Basic Introduction to Structure Determination" CPDHE Refresher Course, **Jamia Millia Islamia University, Delhi, November 26, 2013**.
73. **Diwan S Rawat**, "Heterogeneous catalysis in organic synthesis: One step towards green processes" International symposium on advanced materials, Japan Advanced Institute of Science and Technology (JAIST), **October 17-18, 2013**.
74. **Diwan S Rawat**, "Drug Discovery: Excitement and Agony, Alwar Institute of Engineering and Technology, Alwar-DST INSPIRE Camp, **August 8, 2013**.
75. **Diwan S Rawat**, "Antimalarial Lead Identification through Rational Drug Design" 5th NIPER (Rbl)-CDRI Symposium on Chemical and Biological Approaches in Drug Development and Delivery Strategies, CDRI, Lucknow, **March 21-23, 2013**.
76. **Diwan S Rawat**, "Antimalarial Drug Development From Simple in vitro Screening to Lead Identification" 19th ISCB International Conference (ISCB-2013), **Recent Advances and Current Trends in Chemical and Biological Sciences**, Department of Chemistry, Mohanlal Sukhadia University, Udaipur, Rajasthan, **March 2-5, 2013**.
77. **Diwan S Rawat**, "Development of Tetraoxane and Aminoquinoline Based Antimalarials through Rational Drug Design" **Emerging trends in the Development of Drugs and Devices**, Department of Chemistry, University of Delhi, Delhi-110007, **January 21-23, 2013**.
78. **Diwan S Rawat**, "Interesting story about aspirin and famous Indian scientist" **Centre for Environmental Management of Degraded Ecosystem**, University of Delhi, Delhi-110007, **January 12, 2013**.
79. **Diwan S Rawat**, Inspiring Young Minds: Biographies of Great Indian Scientist, **DST-INSPIRE Camp, Asian Institute, Patiala, January 5, 2013**.
80. **Diwan S Rawat**, Nuclear Magnetic Spectroscopy: Basic Principle to Structure Determination, **Centre for Professional Development in Higher Education**, University of Delhi, **January 3, 2013**.
81. **Diwan S Rawat**, Spectral Problems: A Puzzle!, Thiagarajar College, Madurai Kamraj University, Madurai, **26th December 2012**.
82. **Diwan S Rawat**, Malaria: How to take it?, Thiagarajar College, Madurai Kamraj University, Madurai, **26th December 2012**.
83. **Diwan S Rawat**, Nuclear Magnetic Resonance: Introduction to structure elucidation, National Workshop on Advance Analytical Techniques in Research and Development, **Amity Institute of Applied Sciences, Amity University, Noida, 20-21 December 2012**.
84. **Diwan S Rawat**, Catalysis in organic synthesis: Some trends and applications, "International Conference on Chemistry and Materials: Prospects & Perspectives" **Babasaheb Bhimrao**

- Ambedkar University** (A Central University), Lucknow, **14-16 December, 2012.**
85. **Diwan S Rawat**, Aspirin: From tree bark to Bayer's drug for the ages. Workshop on Microbial Biotechnology, **Ramjus College**, University of Delhi, Delhi, **December 10, 2012 (KEY NOTE ADDRESS).**
 86. **Diwan S Rawat**, "Aminoquinoline and tetraoxane based antimalarials: Lead identification through reversed genomics approach" 3rd Biennial International Conference on New Developments in Drug Discovery from Natural Products and Traditional Medicines, **NIPER, Mohali, November 22-24, 2012.**
 87. **Diwan S. Rawat**, "Library of small organic molecules and their medicinal potential" **Swami Shradhanand College**, University of Delhi, Delhi, **April 11, 2012.**
 88. **Diwan S. Rawat**, "Spectroscopy: Why it is so important" **Centre for Professional Development in Higher Education**, Banaras Hindu University, **March 23, 2012.**
 89. **Diwan S. Rawat**, "Spectrum to structures" **Centre for Professional Development in Higher Education**, Banaras Hindu University, **March 23, 2012.**
 90. **Diwan S Rawat**, "Is ¹H NMR spectroscopy is more important than other spectroscopic techniques" 150th Years celebration of Lucknow Christian College, Lucknow, **February 25, 2012.**
 91. **Diwan S Rawat**, "Nitrogen and oxygen heterocycles: Synthesis and antimalarial activity evaluations", 4th NIPER (Rbl)-CDRI Symposium on Medicinal Chemistry and Pharmaceutical Sciences, CDRI, Lucknow, **February 23-25, 2012.**
 92. **Diwan S Rawat**, "Cyclohexane diamine based small molecular library: Synthesis and biological evaluation", National Seminar on Recent Trends in Chemical and Biological Sciences" Holker Science College, Indore, **January 13-15, 2012.**
 93. **Diwan S Rawat**, "Tetraoxane and aminoquinoline scaffolds as antimalarials", Chemical Research Society of India, South Zonal Meeting, Pondicherry University Pondicherry, **December 16-17, 2011.**
 94. **Diwan S Rawat**, "Natural product inspired biologically active compounds: Synthesis and biological evaluation", National Symposium on Traditional Indian Medicinal Plants in the International Year of Chemistry, National Academy of Chemistry and Biology, Lucknow, NBRI, Lucknow, **December 17-18, 2011.**
 95. **Diwan S Rawat**, "Exploring structural diversity in tetraoxanes and amino-quinolines for the development of novel antimalarials, 48th Annual Convention of Chemist and Celebration of the International Year of Chemistry, Allahabad University, Allahabad, **December 3-7, 2011.**
 96. **Diwan S Rawat**, "Cyclohexane diamine based compounds: Synthesis and biological activity evaluation", Challenges in Drug Discovery and Development (CDDD-2011), Central Drug Research Institute, Lucknow, **December 9-10, 2011.**
 97. **Diwan S Rawat**, "Synthesis and anti-bacterial activity evaluation of cyclohexane diamine based compounds, National Conference on Chemistry-Biology Interface, Kumaun University, Nainital, **November 3-6, 2011.**
 98. **Diwan S Rawat**, Spectral data to molecular structure, **Centre for Professional Development in Higher Education**, University of Delhi, Delhi, **February 24, 2011.**
 99. **Diwan S. Rawat**, Synthesis and Biological Activity Evaluation of Cyclohexane Diamine Derivatives, International Conference on Advances in Applied Chemical Sciences and Innovative Materials, Indian Institute of Technology, Delhi, **August 10-12, 2011.**
 100. **Diwan S Rawat**, Synthesis and antimicrobial activity evaluation of cyclohexane-1,2-and 1,3-diamine derivatives and metronidazole-triazole conjugates, **15th ISCB International Conference (ISCB-2011), Chemical biology for discovery: Perspectives and challenges**, Saurashtra University, Rajkot, Gujrat, **February 4th – 7th 2011.**
 101. **Diwan S Rawat**, Tetraoxane and aminoquinoline based molecules as potential antimalarial agents, One day seminar on "Recent trends on chemical biology, **Central Institute of Aromatic**

and Medicinal Plants, Lucknow, UP, January 28, 2011.

102. **Diwan S Rawat**, "Tetraoxanes, and tetraoxane based hybrids as potential antimalarial agents" **14th National Organic Symposium Trust (NOST), Goa, December 4th - 8th, 2010.**
103. **Diwan S. Rawat**, "Natural products as a source of drug molecules" **Centre for Professional Development in Higher Education**, Kumaun University, Delhi, **December 17, 2010.**
104. **Diwan S. Rawat**, "Spectral data to molecules structure" **Centre for Professional Development in Higher Education**, Kumaun University, Delhi, **December 17, 2010.**
105. **Diwan S Rawat**, "Tetraoxanes, tetraoxane-aminoquinoline/triazine conjugates as potential antimalarial agents" **National Seminar of Recent Advances in Chemical Sciences**, Rewa University, Rewa, MP. **May 2010.**
106. **Diwan S Rawat**, "Synthesis and antimalarial activity evaluation of tetraoxanes, tetraoxane-aminoquinoline/triazine conjugates" **14th ISCB International Conference (ISCBC-2010), Chemical biology for discovery: Perspectives and challenges**, Central Drug Research Institute, Lucknow, Lucknow, **January 15th-18th, 2010 (Young scientist award lecture, News Published by Indian Express: http://www.expressindia.com/story_print.php?storyId=569055).**
107. **Diwan S. Rawat**, "Design, synthesis and antimalarial activity evaluation of oxygen and nitrogen heterocycles" **T3D International Symposium on Trends in Drug Discovery and Development**, University of Delhi, Delhi, **January 5th-8th 2010.**
108. **Diwan S. Rawat**, "Drug discovery: Excitement and agony" **KEME 2009**, Hans Raj College, University of Delhi, Delhi, **17th December 2009.**
109. **Diwan S. Rawat**, "Development of tetraoxane, aminoquinoline and triazine based antimalarials" **4th Uttrakhand State Science and Technology Congress 2009**, GB Pant University of Agriculture and Technology, Pantnagar **10-12 November 2009 (KEY NOTE ADDRESS).**
110. **Diwan S. Rawat**, "Natural product chemistry: Opportunities and challenges" **Centre for Professional Development in Higher Education**, Jamia Millia University, Delhi, **August 31, 2009.**
111. **Diwan S. Rawat**, "Bioprospecting for secondary metabolites" **Centre For Environmental Management of Degraded Ecosystem**, University of Delhi, Delhi-110007, **March 21, 2009.**
112. **Diwan S. Rawat**, "Endoperoxides: Synthesis and Antimalarial Activity Evaluations" **Indo-Denish Seminar on Bioorganic Chemistry**, University of Delhi, Delhi-110007, India; **2nd March 2009.**
113. **Diwan S. Rawat**, "Tetraoxanes as Artemisinin Mimics: Synthesis and Antimalarial Activity Evaluations" **13th ISCBC International Conference on Interplay of Chemical and Biological Sciences: Impact on Health and Environment**, University of Delhi, Delhi-110007, India; **26th-1st March 2009.**
114. **Diwan S. Rawat**, "Natural product and organic spectroscopy" **Centre for Professional Development in Higher Education**, University of Delhi, Delhi-110007, **January 27, 2009.**
115. **Diwan S. Rawat**, "Tetraoxanes and enediynes: Synthesis and biological activity evaluations" **Centre for Professional Development in Higher Education**, University of Delhi, Delhi-110007, **January 15, 2009.**
116. **Diwan S. Rawat**, Enediyne Reactivity: Chemical and Biological Significance. **"International Seminar on Recent Advances in Organic Chemistry"** Department of Chemistry, Andhra University, Visakhapatnam, **December 12-13, 2008.**
117. **Diwan S. Rawat**,* Nitin Kumar, S. I. Khan, Mukul Sharma, Ritu Mangain, Himanshu Atheaya, Symetrically and Asymmetrically Substituted Tetraoxanes: Synthesis Tetraoxanes as Artemisinin Mimics: Synthesis and Antimalarial Activity Evaluation, **"INDO-Italian Seminar on Green Chemistry and Natural Products**, Department of Chemistry, University of Delhi, **5-6**

December 2008.

118. **Diwan S. Rawat**, Natural Product Chemistry: Opportunity and Challenges. “**Eight National Convention of Chemistry Teachers NCCT-2008 and National Conference on Chemistry: Emerging Trends in Chemistry**” Department of Chemistry, HNB Garhwal University, Srinagar, Garhwal, Uttrakhand, **November 8-9, 2008**.
119. **Diwan S. Rawat**, Symetrically and Asymmetrically Substituted Tetraoxanes: Synthesis and Antimalarial Activity Evaluations, “**National Conference on Recent Advances in Chemical Sciences**”, PG Department of Chemistry, Government Dungar College, University of Bikaner, **October 3-5, 2008**.
120. **Diwan S. Rawat**, Natural Products and Natural Product Mimics: A Medicinal Chemistry Prospectives, “**National Conference on Increasing Production and Productivity of Medicinal and Aromatic Plants through Traditional Practices**, G. B. Pant University of Agriculture and Technology, Pantnagar, Uttrakhand, **September 18-20, 2008**.
121. **Diwan S. Rawat**, Himanshu Atheaya, Ritu Mamgain, S. I. Khan, Synthesis, characterization, thermal stability and antimalarial activity of symmetrically and asymmetrically substituted tetraoxanes, “**12th ISCB Conference, International Conference on the Interface of Chemistry-Biology in Biomedical Research**” BITS, Pillani, **February 22-24, 2008**.
122. **Diwan S. Rawat**, “Bioprospecting for natural products of therapeutic values: Opportunities and challenges” **Centre For Environmental Management of Degraded Ecosystem**, University of Delhi, Delhi-110007, **February 2, 2008**.
123. **D. S. Rawat**, “Target-directed enediynes: Chemical and biological significance” **44th Annual Convention of Chemists held at Mahatma Gandhi Institute of Applied Sciences, Jaipur, December 23-27 (2007) (Prof. D. P. Chakraborty 60th Birth Anniversary Commemoration Award Lecture)**.
124. **Diwan S. Rawat**, “Natural product chemistry: Opportunities and challenges”. **Centre for Professional Development in Higher Education**, University of Delhi, Delhi-110007. **December 29, 2007**.
125. **Diwan S. Rawat**, Mukesh Chandra Joshi and Penny Joshi “Synthesis, characterization and thermal reactivity of cyclic/acyclic enediynes” **93rd Indian Science Congress** Acharya N. G. Ranga Agricultural University Rajendranagar, Hyderabad A P, **January 3rd to 7th 2006**.
126. **Diwan S. Rawat** “Bergman cyclization: Old reaction-New developments” G. B. Pant University of Agriculture and Technology, Pant Nagar, UA. **December 23, 2005**.
127. **Diwan S. Rawat** “Synthesis and Biological Significance of Natural Product Analogues”. **National Seminar on Chemistry-Industry Interface**, ARSD College, University of Delhi, **8-9 December 2005**.
128. **Diwan S. Rawat** “Attended Eleventh NOST Symposium” Goa, **October 25-29, 2005**.
129. **Diwan S. Rawat** “Metal Induced Bergman Cyclization: A New Approach for the Development of Enediyne Based Anticancer Agents” Ranbaxy Laboratories Limited, Gurgaon. **13 August, 2004**.
130. **Diwan S. Rawat**, and Richard A Gibbs, “Design and Syntheses of Substituted Farnesyl Pyrophosphates: A New Class of Anticancer Agents”. **IUPAC Conference on Biodiversity and Natural Products: Chemistry and Medical Applications**. Department of Chemistry, University of Delhi, Delhi. **26-31 January 2004**.
131. **Diwan S. Rawat**, “Enediynes: Reactivity Modulation by the use of Metals”. Central Drug Research Institute, Lucknow, India **February 25, 2003**.
132. **Diwan S. Rawat**, “Design and Synthesis of Genotoxic Enediynes. **Centre for Professional Development in Higher Education**, University of Delhi, Delhi-110007. **September 11, 2003**.
133. **Diwan S. Rawat**, Jeffrey M. Zaleski and Richard A. Gibbs, “Design, Synthesis, and Biological Evaluation of Genotoxic and Non-genotoxic agents”. Department of Chemistry, Kumaun

University, Nainital, India. **November, 2002.**

134. **Diwan S. Rawat** and Richard A. Gibbs, "Synthesis and Biological Evaluation of Farnesyl Transferase Inhibitors". Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University, West Lafayette, IN, USA, **September, 2002.**
135. **Diwan S. Rawat** and Jeffrey M. Zaleski, "Design, Synthesis and DNA Cleavage Activity of Metalloenediynes". Department of Chemistry, Indiana University, Bloomington, IN, USA., **July, 2001.**
136. **Diwan S. Rawat** and Jeffrey M. Zaleski, "Ligand Field Control of Thermal Bergman Cyclization Reactions, Department of Chemistry, Kumaun University, Nainital, India. **September, 2001.**

Research Projects (Major Grants/Research Collaboration)

1. Electronic control of thermal Bergman cyclization reactions: A new approach towards the development of novel enediyne anticancer molecules; **Department of Science and Technology (DST) New Delhi, Duration: 2004-2007.**
2. Design and synthesis of Tetraoxanes and Tetraoxane based modular molecules as potential antimalarial agents, **Council of Scientific and Industrial Research (CSIR), New Delhi, Duration: 2004-2008.**
3. Syntheses and Biological Evaluation of Phidolopin Analogues, **University Grants Commission (UGC), New Delhi, Duration: 2007-2010.**
4. Synthesis of substituted tetraoxanes and tetraoxane-aminoquinoline/amine conjugates as potential antimalarial agents, **Department of Science and Technology (DST) New Delhi, Duration: 2009-2012.**
5. Synthesis, anticancer activity, QSAR, and mechanistic studies of curcumin derivatives, **DUPURSE Grant, University of Delhi, Duration: 2012-2013.**
6. Design and Syntheses of Novel 4-Aminoquinoline-triazine/triazole and 4-Aminoquinoline-Curcumin Conjugates as Potential Antimalarial Agents, **University Grants Commission (UGC), New Delhi, Duration: 2012-2015.**
7. Synthesis and anti-cancer activity evaluation of C5-curcuminoids and C5-curcuminoid-hybrids, **Council of Scientific and Industrial Research (CSIR), New Delhi, Duration: 2012-2015.**
8. Synthetic Nurr1 ligand as novel neuroprotective therapeutics to treat Parkinson's disease, **The Michael J. Fox Foundation, USA, Duration 2014 - 2016.**
9. Aminoquinoline-pyrimidine based molecular hybrids: Synthesis, antimalarial activity, docking and heme binding studies" **SERB- Govt of India (File Number: EMR/2014/001127) 2015 - 2018.**
10. Development of nanocatalysts for the sustainable synthesis of novel C5-curcuminoid-indolizine/quinoline/benzofuran hybrids as anticancer agents" **DST- Govt of India (File Number: DST/INT/JSPS/P-214/2016). 2016 - 2018.**

Research Collaboration:

- ❖ **Dr. Shabana Khan**, University of Mississippi, USA
- ❖ **Prof. N. Roy**, National Institute of Pharmaceutical Education and Research, Mohali
- ❖ **Prof. Tanya Parish**, Infectious Disease Research Institute, 1124 Columbia Street, Suite 400, Seattle, Washington, USA
- ❖ **Prof. Binge Wang**, Georgia State University, Athens, USA
- ❖ **Prof. AK Tyagi**, University of Delhi
- ❖ **Prof. Kwang-Soo Kim**, Molecular Neurobiology Laboratory MRC216, McLean Hospital/Harvard Medical School, Boston, USA.

- ❖ **Dr. Ramandeep Singh**, *Translational Health Science and Technology Institute Vaccine and Infectious Disease Research Centre Gurgaon, Haryana.*
- ❖ **Dr. Anthony Addlagatta**, *Indian Institute of Chemical Technology, Hyderabad.*
- ❖ **Professor Peter J Smith**, *Division of Pharmacology, University of Cape Town, South Africa.*
- ❖ **Professor Lube Wiesner**, *Division of Pharmacology, University of Cape Town, South Africa.*

Awards and Distinctions

- **Brand Ambassador**, Bentham Science Publishers (2017).
- **Associate Editor**, Scientific Reports-Nature (2019 – 2021, Impact Factor 4.87).
- **President**-Chemical Sciences, Indian Science Congress (2019 – 2020).
- **Associate Editor**, RSC Advances (2016, Impact Factor 3.84).
- **Fellow**, Royal Society of Chemistry (FRSC, 2016).
- **CChem**, Royal Society of Chemistry (London, 2016)
- **Professor SP Hiremath Memorial Award**, Indian Council of Chemist, 2016.
- **Professor RC Shah Memorial Lecture Award**, Indian Science Congress, 2015 – 16.
- **Visiting Professor**, Japan Advanced Institute of Science and Technology (JAIST), Japan.
- **Gold Badge and Diploma**, International Scientific Partnership Foundation, Russia (2015).
- **Executive Member**: Indian Society of Chemist and Biologist (2013-2015).
- **VC's Pratik Chinha Samman**, Kumaun University Nainital, November, 2011.
- **Young Scientist Award, Indian Society of Chemist and Biologist (ISCB), 2010.**
- **Elected Life Member**, The National Academy of Sciences, Allahabad **2007.**
- **Prof. D. P. Chakraborty 60th Birth Anniversary Commemoration Award 2007** (Awarded by Indian Chemical Society).
- **Young Researcher Award, Chemical Research Society of India (CRSI) 2007.**
- **Merit Certificate (MSc Topper)**, Kumaun University, Nainital, UK, India, **1993.**

Awards/Honors (Students):

- **Best poster award** in ACS on Campus India Roadshow-2018, University of Delhi, Delhi, February 5, 2018 [Dr Archana Gupta].
- **Best oral presentation award** in RSC Workshop on Chemistry for Tomorrow's World, New Delhi, India, 2-3rd December, 2015 (Upasana Gulati).
- **International Best Research Scholar Award-2014** from **International Science Congress Association (ISCA)**, Indore, India **December 8, 2014 (U. Chinna Rajesh).**
- **Young Researcher Award-2015** received from **Prof. Robert Huber (Nobel Laureate in Chemistry, 1988)** during NANO-15 International Conference, K. S. R. College of Technology, Tiruchengode, India (U. Chinna Rajesh).
- **Best Poster Award in 3rd International Conference and Exhibition on Materials Science & Engineering**, San Antonio, USA, **October 6-8, 2014 (U. Chinna Rajesh).**
- **Poster-Walkway of Discovery recognition** received from **Bharat Ratna Prof. C. N. R Rao**, in **7th Bangalore India Nano International Conference, Product & Technology Exhibition**, Bangalore, India, **December 5-6, 2014 (U. Chinna Rajesh).**
- **Young Researchers Forum Award** from **Material Science and Engineering, OMICS Group**, San Antonio, USA, **October 6-8, 2014 (U. Chinna Rajesh).**
- **Young Scientist Award** for best oral presentation in **4th International Science Congress Pacific University**, Udaipur, India, **December 8-9, 2014 (U. Chinna Rajesh).**
- **Best poster award in 19th ISCB International Conference (ISCB-2013), Recent Advances and Current Trends in Chemical and Biological Sciences**, Mohanlal Sukhadia

University, Udaipur, India, **March 2-5, 2013 (U. Chinna Rajesh)**.

- **Best poster award in 21st National Symposium on Catalysis for Sustainable Development (CATSYMP-21)**, CSIR-IICT, Hyderabad, India, **February 11-13, 2013 (U. Chinna Rajesh)**.
- **Best poster award** in National Conference on Green and Sustainable Chemistry (NCGSC-2010), Chemistry Group, Birla Institute of Technology and Science, Pillani, Rajasthan, **February 19th-21st, 2010 (Sunny Manohar)**.
- **Best poster award** in 14thISCB International Conference (ISCBC-2010), Chemical biology for discovery: Perspectives and challenges, Central Drug Research Institute, Lucknow, Lucknow, **January 15th-18th, 2010 (Nitin Kumar)**.
- **Best poster award** in 13th ISCB International Conference on Interplay of Chemical and Biological Sciences: Impact on Health and Environment. University of Delhi, Delhi, **26th February – 1st March 2009 (Nitin Kumar)**.

Association with Professional Bodies

1. **Editing:** Edited especial issues of Anti-Cancer Agents in Medicinal Chemistry, Published by Bentham (**2008, 2013**).
Indian Journal of Chemistry (Section B, **2009**).
2. **Reviewing:** Reviewer for ACS, Royal Society, Elsevier, Wiley, and many other international and national research journals.

Committees and Boards Memberships:

Expert-Funding Agencies:

- **Member**, NAAC Peer Team, University Grants Commission, Delhi (**2019 – Till Date**).
- **Member, Subject Expert Committee**, Women Scientist Scheme-A (WOS-A), DST (**2016 – 2019**).
- **Member Expert Committee**, Technological Intervention for Addressing Societal Needs (TIASN), Department of Science & Technology (DST), New Delhi (**2016 – 2019**).
- **UGC-Nominee, SAP Programme**, Department of Chemistry, Shivaji University, Kolhapur (**2013 - 2018**).
- **UGC-Nominee, SAP Programme**, Department of Chemistry, Guru Nanak Dev University, Amritsar (**2015 - 2020**).
- **Project Advisory Committee (PAC)**, International Cooperation Division (ICD), Department of Science & Technology (DST), New Delhi (**2014 – 2018**).
- **Member project evaluation committee**, Uttarakhand State Council for Science and Technology (UCOST), Dehradun, Uttrakhnad (**2007 –2014**).

Board of Higher Studies/Advisory Committee/ Committee of Courses:

- **Member, Institutional Advisory Board (IAB)/Departmental Advisory Board (DAB)**, National Council of Educational Research and Training (NCERT) (**2017-2020**).
- **Visitors Nominee, Academic Council Member**, HNB Garhwal University, Srinagar, Srinagar (Garhwal), UA (**2016-2018**).
- **Member, Board of Studies**, Central University, Mizoram (**2018-2020**).
- **Member, Board of Studies**, Amity University, Gurgaon, School of Applied Sciences (**2018-2020**).
- **Member, Board of Studies (Chemistry)**, HNB Garhwal University, Srinagar, Srinagar

(Garhwal), UA (2012-2014; 2014-2017; 2017-2019).

- **Member, Board of Studies** (Chemistry), SRM University, Sonapat, (2017 - 2019).
- **Member, Board of Studies** (Chemistry), Gautam Budha University, Noida (2016 - 2018).
- **Member, Board of Studies** (Chemistry), MJP Rohilkhand University, Bareilly (2013-2015).
- **Member, Board of Studies**, Amity University, School of Natural Sciences, Gurgaon (2014-2016).
- **Member, Board of Studies**, Amity University, Centre for Phytomedicine and Phytochemistry, Noida (2014-2016).
- **Member Board of Studies**, Uttrakhand Open University, Chemistry, Haldwani.
- **Member, Doctoral Committee**, Jamia Hamdard University, Department of Pharmaceutical Chemistry, Delhi (2013 - 2016).
- **Member, Board of Studies**, Kumaun University, Department of Chemistry, Nainital, UA (2012-2015).
- **Member, Faculty of Technology**, Kumaun University, Department of Chemistry, Nainital, UA (2016-2019).
- **Member Research Advisory Committee**, Department of Chemistry, HNB Garhwal University, Srinagar, Srinagar (Garhwal), UA (2005-2009).
- **Member Advisory Committee**, University Science Instrumentation Center-Central Instrument Facility (USIC-CIF), University of Delhi, (2010 - 2015).
- **Member Committee of Courses**, University of Delhi, Delhi, (March 2010 - April 2015).
- **Co-ordinator, CPDHE Refresher Course**, University of Delhi, (February 15th to March 9, 2010).
- **Member, Project Review Committee**, Department of Scientific and Industrial Research (DSIR), Delhi.
- **Jury Member** 3rd National Level Exhibition and Project Competition (NLEPC)- 2013 under INSPIRE Awards component of Department of Science and Technology, **October 2013**.
- **Jury Member** 2nd National Level Exhibition and Project Competition (NLEPC)- 2013 under INSPIRE Awards component of Department of Science and Technology, **2012**.
- **Member young scientist award committee**, Uttarakhand State Council for Science and Technology (UCOST), Dehradun, Uttranchal (2007 - 2014).

Member Governing Body/University Nominee:

- **Member Governing Body**, Hansraj College, University of Delhi, Delhi, (2010-2011; 2011-2012).
- **Member Governing Body**, Swami Shraddhanand College, University of Delhi, Delhi, (2011-2013).
- **University nominee, Governing Body**, Shaheed Rajguru College, University of Delhi, Delhi, (2010-2011; 2011-2012).
- **University nominee, Governing Body**, Ramjus College, University of Delhi, Delhi, (2012 - Till Date).
- **University nominee**, Higher Secondary School, Maurice Nagar, University of Delhi, Delhi, (2010-2011; 2011-2012).
- **University nominee, SGTB Khalsa Colleges**, University of Delhi, Delhi, (July 2013 to 2017).

- **University nominee, Aditya Mahavidyalaya, University of Delhi, Delhi, (July 2014 to 2017).**
- **University nominee, Sir Arvindo College, University of Delhi, Delhi, (2017).**

Development of Teaching Materials/Review of Text Books:

- Member, Development of In-service Teacher Training Material through Interactive Audio Visual Presentation in Chemistry for Hr. Sec. Stage (Chemistry, NCERT), November 24-28, 2008.
- Member, Development of need based package for the orientation of master trainers in Science for Hr. Sec. Stage (Chemistry, NCERT), December 26-29, 2011
- Member, Quick Review of NCERT Textbooks for Higher Secondary Stage (Chemistry-Practical), August-September 2007.
- Member, Quick Review of NCERT Textbooks for Higher Secondary Stage (Chemistry), August-September 2006.
- Member, Quick Review of NCERT Textbooks for Secondary Stage (Science and Technology), October 2004.
- Member curriculum development committee for BSc courses, M. Tech in Chemical Synthesis and Process Technologies, University of Delhi.
- Member, Bureau of Indian Standards, New Delhi.
- Member, various task force committees constituted by Vice-Chancellor, University of Delhi.

University Elections:

- Chief Election officer, DUSU Election, University of Delhi, **2014 - 2016.**
- Chief Returning officer, DUSU Election, University of Delhi, **2012 and 2013.**
- Returning officer, DUSU Election, University of Delhi, **2011-2012.**

Conferences and Symposia:

- **Joint Secretary**, Trends in Drug Discovery and Development, International conference held at University of Delhi, 2010.
- **Joint Secretary**, 13th ISCB International conference held at University of Delhi, 2009.
- **Session Chairman**, International Conference on Chemistry and Materials: Prospects & Perspectives” **Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, 14-16 December, 2012.**
- **Session Chairman**, 4th NIPER (Rbl)-CDRI Symposium on Medicinal Chemistry and Pharmaceutical Sciences, CDRI, Lucknow, **February 23-25, 2012**
- **Session Chairman**, National Seminar on Recent Trends in Chemical and Biological Sciences” Holker Science College, Indore, **January 13-15, 2012.**
- **Session Chairman**, 48th Annual Convention of Chemist and Celebration of the International Year of Chemistry, Allahabad University, Allahabad, **December 3-7, 2011.**
- **Session Chairman, T3D International Symposium on Trends in Drug Discovery and Development**, University of Delhi, Delhi, **January 5th-8th 2010.**

Other Activities

MEMBER INTERNATIONAL EDITORIAL BOARD:

➤ Associate Editor

- ❖ RSC Advances 2016 – 2019.
- ❖ Scientific Reports (Nature research Journal) 2019 – 2021.
- ❖ Journal of the Indian Chemical Society (Organic Section) 2011 – 2013.

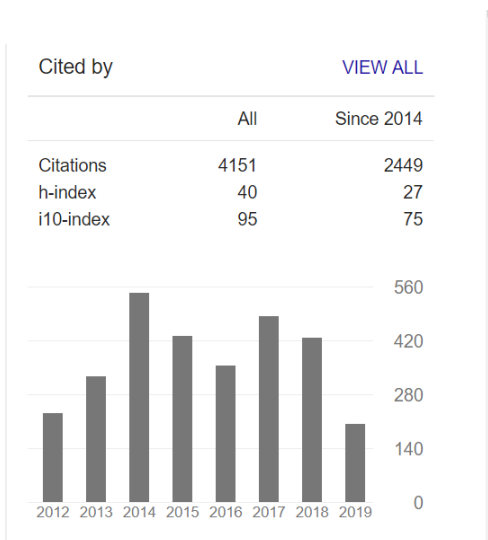
➤ Member International Editorial Board

- ❖ Anti-Cancer Agents in Medicinal Chemistry Published by Bentham, <http://www.benthamscience.com/cmca/EBM.htm> (2007-Till Date) **Impact Factor 2.556**.
- ❖ Marine Drugs <http://www.mdpi.org/marinedrugs/editors.htm> [2005-2015] **Impact Factor 4.379**
- ❖ Chemistry and Biology Interface, Published by ISCB (2011-Till Date).
- ❖ Indian Journal of Heterocyclic Chemistry (2013-Till Date)

Guest Editor for Special Journal Issues:

- Anti-Cancer Agents in Medicinal Chemistry (**Impact Factor 2.556; 2013**); <http://benthamscience.com/cmca/Special-Issues.htm>).
- Anti-Cancer Agents in Medicinal Chemistry (**Impact Factor 2.556; Two issues, 2008**).
- Indian Journal of Chemistry-Section B (**Impact Factor 0.66; 2009**).

Citation matrix (Google scholar, June 17, 2019):




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