




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 – Till Date**).
- **OSD, University Press, and Head, Graphic Art Centre,** University of Delhi, Delhi (**January 2011 - Till Date**).
- **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-Till Date**).
- **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

- **Stereochemistry**
- **Reactive intermediates (Reaction mechanism)**
- **Spectroscopy**
- **Chemistry of natural products**
- **Metal catalyzed reactions**
- **Name reactions**

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 Mamgain,** *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.*
17. **P. Linga Reddy**, *Title of Thesis: Design and application of nanomaterials for organic transformations and synthesis of medicinal hybrids.*

2. Supervision of Doctoral Thesis, under progress

- **Registered PhD students:** Rohit Kholiya, Shamseer K. Kandi, Shiv Shyam Maurya; Aparna Bahuguna, Upasana Gulati, Gunjan Purohit

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. Citations: Over 91.**
- 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:

2017

1. 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, 4672-4682.
2. 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.
3. Reddy PL, Tripathi M, Arundhathi M and **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.
4. Gupta A, Kholiya A, **Rawat DS***,(2017) Lewis acid mediated tetrahydrofuran synthesis via [3+2] cycloaddition reaction of 2-arylcyclopropyl ketones with aldehydes, **Asian J. Org. Chem.** Accepted .
5. 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.
6. 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.
7. Negi B, Kumar D, **Rawat DS***,(2017) Marine peptides as anticancer agents: A remedy to mankind by nature, **Curr. Protein Pept. Sci.** DOI: [10.2174/1389203717666160724200849](https://doi.org/10.2174/1389203717666160724200849).
8. 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.
9. Maurya SS, Khan SS, 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.
10. Gupta A, Kholiya R, **Rawat DS***, 2016, Lewis Acid mediated tetrahydrofuran synthesis via [3+2] cycloaddition reaction of 2-arylcyclopropyl ketones with aldehydes, **Asian J Org**

11. 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.
12. 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.
13. Rajesh UC, Pavan VS, **Rawat DS*** 2016, Copper supported hematite NPs as magnetically recoverable nanocatalysts for one-pot synthesis of aminioindolizines and pyrrolo[1,2-a]quinolines, **RSC Adv**, **6**, 2935 – 2943. **Highlighted in SYNFACTS 02016, 12(4), 0427.**
14. 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.
15. 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

16. 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.
17. 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.**
18. Negi B, Kumar D, **Rawat DS*** 2015,, Marine peptides as anticancer agents: A remedy to mankind by nature, **Curr. Protein Pept. Sci. Accepted.**
19. 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.
20. 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.
21. 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.
22. Kumar D, Negi B, **Rawat DS*** 2015 The Current Anti-TB Agents and the Challenges Ahead. **Fut. Med. Chem.** **7**, 1981 – 2003, **Invited article.**
23. 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.
24. 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.**
25. 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.

26. Tripathi M, Khan SI, Thakur A, Ponnann P, **Rawat DS* 2015**, 4-Aminoquinoline-pyrimidine-aminoalkanols: Synthesis, *in vitro* antimalarial activity, docking studies and ADME predictions, **New J. Chem.** 39, 3474 – 4383.
27. 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.
28. 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.
29. 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**].
30. 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).
31. Kumar D, Khan SI, Ponnann P, **Rawat DS* 2015** “4-Aminoquinoline-pyrimidine hybrids: Synthesis, antimalarial activity, heme binding and docking studies” **Eur. J. Med Chem.** 89, 490 - 502.
32. 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.
33. 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

34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. Manohar, S.; Tripathi, M.; **Rawat, D. S.***, 2014, 4-Aminoquinoline based molecular hybrids as antimalarials: An Overview, **Curr. Top. Med. Chem.** 14, 1706 - 1733.
40. 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.

41. 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.
42. 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>.
43. 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.
44. 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.
45. 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.
46. Tripathi, M.; Reddy, P. L.; **Rawat, D. S.***, 2014, Noscipine and its analogues as anti-cancer agents, **Chem Biol Interface** 4, 1 - 22.
47. Mamgain, 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*).
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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

56. 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.
57. **Rawat, D. S.***, Singh, R.; 2013, Plant derived secondary metabolites as anti-cancer agents. **Anti-Cancer Agents-Med. Chem.** 13, 1551.
58. Thakur, A.; Tripathi, M.; Rajesh, U. C.; **Rawat, D. S.***, 2013, Ethylenediammonium-diformate (EDDF) in PEG₆₀₀: An efficient ambiphilic novel catalytic system for the one-pot synthesis of 4*H*-pyrans via Knoevenagel condensation. **RSC Adv.** 3, 18142 – 18148.
59. Kumar, N.; Kapoor, E.; Singh, R.; Kidwai, S.; Kumbukgolla, W.; Bhagat, S.; **Rawat, D. S.***, 2013, Synthesis and antibacterial/antitubercular activity evaluation of symmetrical *trans*-cyclohexane-1,4-diamine derivatives. **Ind. J. Chem. Sect B.** 52, 1441 – 1450.
60. Joshi, R.; Kumar, A.; Manral, S.; Sinha, R.; Arora, S.; Goel, S.; Kalra, N.; Chatterji, S.; Dwarakanath, B. S.; **Rawat, D. S.***; Saluja, D.; Parmar, V. S.; Prasad, A. K.; Raj, H. G.; 2013, Calreticulin transacetylase mediated upregulation of thioredoxin by 7,8-diacetoxy-4-methylcoumarin enhances the antioxidant potential and the expression of vascular endothelial growth factor in peripheral blood mono nuclear cells, **Chemico-Biological Interactions**, 206, 327–336.
61. Manohar, S.; Khan, S. I.; Kandi, S. K.; Raj, K. K.; Sun, G.; Yang, X.; Molina, A. D. C.; Ni, N.; Wang, B.; **Rawat, D. S.***, 2013, Synthesis and cytotoxic potential of new monocarbonyl analogues of Curcumin. **Bioorg. Med. Chem. Lett.** 23, 112-116.
62. Sharma, M.; Rajesh, U. C. **Rawat, D. S.***, 2013, Improved synthesis of natural ester Sintenin and its analogues via Wittig reaction. **J. Ind. Chem. Soc.** 90, 1853–1860.
63. Beena, **Rawat, D. S.***, 2013, “Antituberculosis drug research: A critical overview” **Med. Res. Rev.** 33, 693–764 (**ranked #1 among the medicinal chemistry journals**).
64. Kumar, N.; Sun, G.; Ni, N.; Chen, W.; Molina, A. D. C.; Wang, B.; **Rawat, D. S.***, 2013, “Synthesis and cytotoxicity evaluation of C5-curcuminoids” **Chem. Biol. Interface**, 3, 164-186.
65. Manohar, S.; Khan, S. I.; **Rawat, D. S.***, 2013, 4-Aminoquinoline-triazine based hybrids with improved *in-vitro* antimalarial activity against CQ-sensitive and CQ-resistant strains of *P. falciparum*. **Chem. Biol. Drug Des.** 81, 625-630.
66. Beena, Kumar, D.; **Rawat, D. S.***, 2013, Synthesis and antioxidant activity of thymol and carvacrol based Schiff bases, **Bioorg. Med. Chem. Lett.** 23, 641-645.
67. Kumar, D.; Raj, K. K.; Bailey, M. A.; Alling, T.; Parish, T.; **Rawat, D. S.***, 2013, Antimycobacterial activity evaluation and time-kill kinetic and 3D QSAR study of C-(3-aminomethyl-cyclohexyl)-methylamine derivatives, **Bioorg. Med. Chem. Lett.** 23, 1365-1369.

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68. Manohar, S.; Rajesh, U. C.; Khan, S. I.; Babu, L. T.; **Rawat, D. S.*** 2012. Novel 4-aminoquinoline-pyrimidine based hybrids with improved *in vitro* and *in vivo* antimalarial activity. **ACS Med. Chem. Lett.** 3, 555-559.
69. Arya, K.; Rajesh, U. C.; **Rawat, D. S.*** 2012. Proline confined FAU zeolite: Hybrid heterogeneous catalyst for one pot synthesis of spiroheterocycles via mannich type reaction. **Green Chem.** 14, 3344-3351.
70. Joshi, S.; Bisht, G. S.; **Rawat, D. S.***; Maiti, S.; Pasha, S. 2012. Comparative mode of action of novel hybrid peptide CS-1a and its rearranged amphipathic analog CS-2a. **FEBS Journal.** 279, 3776 – 3790.
71. Joshi, S.; Dewangan, R. P.; Yadav, S.; **Rawat, D. S.***; Pasha, S. 2012. Synthesis, antibacterial activity and mode of action of novel linoleic acid-dipeptide-spermidine conjugates. **Org.**

Biomol. Chem. 10, 8326-8335.

72. Beena.; Joshi, S.;Kumar, N.;Kidwai, S.;Sing, R.; **Rawat, D. S.* 2012.** Synthesis and antitubercular activity evaluation of novel unsymmetrical cyclohexane-1,2-diamine derivatives. **Arch. Pharm. Chem. Life Sci. 345, 896-901.**
73. Arya, K.; **Rawat, D. S.;** Dandia, A.; Sasai, S. **2012.** Zeolite supported Bronsted-acid ionic liquids: an eco approach for synthesis of spiro[indole-pyrido[3,2-e]thiazine] in water under ultrasonication. **Green Chem. 14, 1956-1963.**
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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 Vardhini, Kwang-Soo, and Chun-Hyung Kim, Amino-quinoline based hybrids and uses thereof. **US2015/0023930 A1 (2015)**.
3. **Diwan S Rawat***, Binghe Wang, Nitin Kumar, Sunny Manohar, Xiaochuan Yang, Guojing Sun, Curcumin analogues and methods of making and using thereof. **PCT/US2013/053216 (2014)**.
4. **Diwan S Rawat***, Sunny Manohar, Ummadisetty Chinna Rajesh, Deepak Kumar, Anuj Thakur, Mohit Tripathi, Panyala Linga Reddy, Shamseer Kulangara Kandi, Satyapavan Vardhini, Kwang-Soo, and Chun-Hyung Kim, Amino-quinoline based hybrids and uses thereof. **WO2013134047 A3, PCT/US2013/028329, PCT/US2013/028329 (2013)**.
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** special issues of Anti-Cancer Agents in Medicinal Chemistry (Published by Bentham).

Citations (June 25, 2016; Google Citation)

Citation indices

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<u>Citations</u>	2700	2056
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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**, “Nano-catalysis and Sustainable Synthesis” Indian Institute of Technology (ISM) Dhanbad, June 15, 2017.
- 2. Diwan S Rawat**, Organic Spectroscopy: Entertainment or Melancholy, Indian Institute of Technology (ISM) Dhanbad, June 15, 2017.
- 3. Diwan S Rawat**, “Why young minds should pursue chemistry” Hansraj College, April 10, 2017.
- 4. 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.
- 5. 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.
- 6. 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**).
- 7. Diwan S Rawat**, “Chemistry, human health and environment” INSPER-Mentor, GD Goenka University, Gurgaon, January 13, 2017.
- 8. Diwan S Rawat**, “How to make spectroscopy interesting?” Refresher course for college teachers, Jawaharlal Nehru University, Delhi, January 5, 2017.
- 9. Diwan S Rawat**, “Catalysis on the Nanoscale: Preparation and Application in Multi-component Organic Synthesis” Asian Network for Natural and Unnatural Materials (ANUM-IV, 2016), National University of Singapore, June 8 – 11, 2016.
- 10. 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**.
- 11. Diwan S Rawat**, “Nano materials and their application in organic conversions”, National Conference on Chemistry: Environment and Harmonious Development and Ecosystems, Shyam Lal College, Delhi, **April 7-8, 2016 (Plenary Lecture)**.
- 12. 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).**
13. **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).**
 14. **Diwan S Rawat**, "Antimalarial and anti-Parkinson potential of aminoquinoline based molecular hybrids, 52nd Annual Convention of Chemist 2015 and International Conference on Recent Advances in Chemical Sciences, JECRC University, Jaipur, **December 29-30, 2015.**
 15. **Diwan S Rawat**, "Hybrid drugs: An alternative method of designing new drug molecules" National seminar on chemistry and healthcare, Jamia Millia Islamia, Delhi, **December 17, 2015.**
 16. **Diwan S Rawat**, "Significance of chemical education" INSPIRE camp, SRM University, **December 16, 2015.**
 17. **Diwan S Rawat**, "Life of a chemist without spectroscopy" TEQUIP-II Sponsored Short Term Course on Recent Trends in Synthetic Chemistry and its Relevance, NIT, Jalandhar, **December 07 - 13, 2015.**
 18. **Diwan S Rawat**, "Spectroscopy: Introduction to structure determination" TEQUIP-II Sponsored Short Term Course on Recent Trends in Synthetic Chemistry and its Relevance, NIT, Patna, **December 10 - 11, 2015 (Chief Guest, Key Note Lecture).**
 19. **Diwan S Rawat**, "Molecular hybridization in drug discovery: A myth or reality" Current Challenges in Drug Discovery Research" MNIT, Jaipur, **November 23-25, 2015 (Plenary Lecture).**
 20. **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 Science and Technology, Japan, **November 10 - 12, 2015.**
 21. **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.**
 22. **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**
 23. **Diwan S Rawat**, "Molecular hybridization in drug discovery" National Conference on Science and Technology for Indigenous Development in India, Indian Science Congress Association: Haridwar Chapter, Gurukul Kangari University, Haridwar, **September 28 - 30, 2015.**
 24. **Diwan S Rawat**, "Challenges and new opportunities in drug discovery" Chem Fest, Hindu College, University of Delhi, **August 22, 2015.**
 25. **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.**
 26. **Diwan S Rawat**, "Molecular hybrids: An innovative approach in drug discovery" Drug Discovery and Therapy World Congress - 2015 (DDTWC 2015), Boston **July 22 - 25, 2015.**
 27. **Diwan S Rawat**, "Medicinal chemistry: Opportunities and challenges" McLean Hospital, Harvard University, Boston **July 20, 2015.**
 28. **Diwan S Rawat**, "Spectroscopic tools for organic chemist: An introduction" CPDHE Refresher

Course, **University of Delhi, June 30, 2015.**

29. **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.
30. **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.
31. **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.**
32. **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.**
33. **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.**
34. **Diwan S Rawat, "NMR Spectroscopy and its applications"** CPDHE Refresher Course, Delhi Technological University, Delhi, **21st December, 2014.**
35. **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.**
36. **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.**
37. **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.**
38. **Diwan S Rawat, "Spectroscopy: Introduction to Structure Elucidation"** CPDHE Refresher Course, Jamia Millia Islamia University, Delhi, **25th October, 2014.**
39. **Diwan S Rawat, "Pros and cons of drug development"** KM College, University of Delhi, **24th September, 2014.**
40. **Diwan S Rawat, "Excitement and agony of a medicinal chemist!"** Deen Dayal Upadhaya College, University of Delhi, **26th August, 2014.**
41. **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.**
42. **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.**
43. **Diwan S Rawat, "NMR Spectroscopy and its Role in Structure Determination"** M.J.P ROHILKHAND UNIVERSITY, *February 21, 2014.*

44. **Diwan S Rawat**, "*Drug Discovery: Long Road with Complete Uncertainty*", Gautom Budha University, Noida, *Science Day Celebration, February 28, 2014*.
45. **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)**.
46. **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)**.
47. **Diwan S Rawat**, "Identification of lead antimalarial through virtual screening" 8th Uttarakhand Science and Technology Congress" Doon University, Dehradun. **December 26-28, 2013 (Lead Lecture)**.
48. **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**.
49. **Diwan S Rawat**, "Recyclable catalysis in Organic Synthesis: One Step towards Green processes" Workhardt Research Centre, Aurangabad. **December 13, 2013**.
50. **Diwan S Rawat**, "Medicinal Chemistry: Basics to Drug Discovery-DST INSPIRE Camp, HNB Garhwal Central University, Srinagar **December 11, 2013**.
51. **Diwan S Rawat**, "Medicinal Chemistry: An Ever Green Area with Complete Uncertainty" **University Institute of Pharmaceutical Sciences, Punjab University, Chandigarh, November 18 - 21, 2013**.
52. **Diwan S Rawat**, "NMR Spectroscopy: Basic Introduction to Structure Determination" CPDHE Refresher Course, **Jamia Millia Islamia University, Delhi, November 26, 2013**.
53. **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**.
54. **Diwan S Rawat**, "Drug Discovery: Excitement and Agony, Alwar Institute of Engineering and Technology, Alwar-DST INSPIRE Camp, **August 8, 2013**.
55. **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**.
56. **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**.
57. **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**.
58. **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**.
59. **Diwan S Rawat**, Inspiring Young Minds: Biographies of Great Indian Scientist, **DST-INSPIRE Camp, Asian Institute, Patiala, January 5, 2013**.
60. **Diwan S Rawat**, Nuclear Magnetic Spectroscopy: Basic Principle to Structure Determination, **Centre for Professional Development in Higher Education**, University of Delhi, **January 3, 2013**.
61. **Diwan S Rawat**, Spectral Problems: A Puzzle!, Thiagarajar College, Madurai Kamraj University, Madurai, **26th December 2012**.
62. **Diwan S Rawat**, Malaria: How to take it?, Thiagarajar College, Madurai Kamraj University, Madurai, **26th December 2012**.

63. **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.**
64. **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.**
65. **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).**
66. **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.**
67. **Diwan S. Rawat**, "Library of small organic molecules and their medicinal potential" **Swami Shradhanand College**, University of Delhi, Delhi, **April 11, 2012.**
68. **Diwan S. Rawat**, "Spectroscopy: Why it is so important" **Centre for Professional Development in Higher Education**, Banaras Hindu University, **March 23, 2012.**
69. **Diwan S. Rawat**, "Spectrum to structures" **Centre for Professional Development in Higher Education**, Banaras Hindu University, **March 23, 2012.**
70. **Diwan S Rawat**, "Is ¹H NMR spectroscopy is more important than other spectroscopic techniques" 150th Years celebration of Lucknow Christan College, Lucknow, **February 25, 2012.**
71. **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.**
72. **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.**
73. **Diwan S Rawat**, "Tetraoxane and aminoquinoline scaffolds as antimalarials", Chemical Research Society of India, South Zonal Meeting, Pondicherry University Pondicherry, **December 16-17, 2011.**
74. **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.**
75. **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.**
76. **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.**
77. **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.**
78. **Diwan S Rawat**, Spectral data to molecular structure, **Centre for Professional Development in Higher Education**, University of Delhi, Delhi, **February 24, 2011.**
79. **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.**
80. **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 (ISCBC-2011), Chemical biology for discovery: Perspectives and challenges**, Saurashtra University, Rajkot, Gujrat, **February 4th – 7th 2011**.

81. **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**.
82. **Diwan S Rawat**, “Tetraoxanes, and tetraoxane based hybrids as potential antimalarial agents” **14th National Organic Symposium Trust (NOST), Goa, December 4th - 8th, 2010**.
83. **Diwan S. Rawat**, “Natural products as a source of drug molecules” **Centre for Professional Development in Higher Education, Kumaun University, Delhi, December 17, 2010**.
84. **Diwan S. Rawat**, “Spectral data to molecules structure” **Centre for Professional Development in Higher Education, Kumaun University, Delhi, December 17, 2010**.
85. **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**.
86. **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)**.
87. **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**.
88. **Diwan S. Rawat**, “Drug discovery: Excitement and agony” **KEME 2009, Hans Raj College, University of Delhi, Delhi, 17th December 2009**.
89. **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)**.
90. **Diwan S. Rawat**, “Natural product chemistry: Opportunities and challenges” **Centre for Professional Development in Higher Education, Jamia Millia University, Delhi, August 31, 2009**.
91. **Diwan S. Rawat**, “Bioprospecting for secondary metabolites” **Centre For Environmental Management of Degraded Ecosystem, University of Delhi, Delhi-110007, March 21, 2009**.
92. **Diwan S. Rawat**, “Endoperoxides: Synthesis and Antimalarial Activity Evaluations” **Indo-Denish Seminar on Bioorganic Chemistry, University of Delhi, Delhi-110007, India; 2nd March 2009**.
93. **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**.
94. **Diwan S. Rawat**, “Natural product and organic spectroscopy” **Centre for Professional Development in Higher Education, University of Delhi, Delhi-110007, January 27, 2009**.
95. **Diwan S. Rawat**, “Tetraoxanes and enediyne: Synthesis and biological activity evaluations” **Centre for Professional Development in Higher Education, University of Delhi, Delhi-110007, January 15, 2009**.
96. **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.**

97. **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.**
98. **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.**
99. **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.**
100. **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.**
101. **Diwan S. Rawat**, Himanshu Atheaya, Ritu Mangain, 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, **Feburary 22-24, 2008.**
102. **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, **Feburary 2, 2008.**
103. **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).**
104. **Diwan S. Rawat**, "Natural product chemistry: Opportunities and challenges". **Centre for Professional Development in Higher Education**, University of Delhi, Delhi-110007. **December 29, 2007.**
105. **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.**
106. **Diwan S. Rawat** "Bergman cyclization: Old reaction-New developments" G. B. Pant University of Agriculture and Technology, Pant Nagar, UA. **December 23, 2005.**
107. **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.**
108. **Diwan S. Rawat** "Attended Eleventh NOST Symposium" Goa, **October 25-29, 2005.**
109. **Diwan S. Rawat** "Metal Induced Bergman Cyclization: A New Approach for the Development of Eneidyne Based Anticancer Agents" Ranbaxy Laboratories Limited, Gurgaon. **13 August, 2004.**
110. **Diwan S. Rawat**, and Richard A Gibbs, "Design and Syntheses of Substituted Farnasyl Pyrrophosphates: 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.**
111. **Diwan S. Rawat**, "Enediynes: Reactivity Modulation by the use of Metals". Central Drug

Research Institute, Lucknow, India **February 25, 2003.**

112. **Diwan S. Rawat**, "Design and Synthesis of Genotoxic Eneidyne. **Centre for Professional Development in Higher Education**, University of Delhi, Delhi-110007. **September 11, 2003.**
113. **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.**
114. **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.**
115. **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.**
116. **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, **DU-PURSE 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.*
- ❖ *Prof. SV Malhotra, Laboratory of Synthetic Chemistry, SAIC, Frederick Inc, National Cancer Institute at Frederick, MD, USA.*
- ❖ *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

- Merit Certificate (**MSc Topper**), Kumaun University, Nainital, UK, India, **1993**.
- Chemical Research Society of India (**CRSI**) **Young Researcher Award 2007**.
- **Prof. D. P. Chakraborty 60th Birth Anniversary Commemoration Award 2007** (Awarded by Indian Chemical Society).
- **Elected Life Member**, The National Academy of Sciences, Allahabad **2007**.
- Indian Society of Chemist and Biologist (**ISCB**), **Young Scientist Award 2010**.
- **VC's Pratik Chinha Samman**, Kumaun University Nainital, **November, 2011**.
- **Executive Member**: Indian Society of Chemist and Biologist (2013-2015).
- Invited Speaker, **14th National Organic Symposium Trust (NOST), Goa, December 4th - 8th, 2010**.
- 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 (Best poster award)**.
- National Conference on Green and Sustainable Chemistry (NCGSC-2010), Chemistry Group, Birla Institute of Technology and Science, Pillani, Rajasthan, **February 19th-21st, 2010 (Best poster award)**.
- 14th ISCB International Conference (ISCB-2010), Chemical biology for discovery: Perspectives and challenges, Central Drug Research Institute, Lucknow, Lucknow, **January 15th-18th, 2010 (Best poster award)**.
- **21st National Symposium on Catalysis for Sustainable Development (CATSYMP-21)**, CSIR-IICT, Hyderabad, Andhra Pradesh, India, **February 11-13, 2013 (Best Poster Award)**.

- **19th ISCB International Conference (ISCBC-2013), Recent Advances and Current Trends in Chemical and Biological Sciences**, Mohanlal Sukhadia University, Udaipur, India, **March 2-5, 2013 (Best Poster Award)**.

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:

Selection Committees:

- **Member selection committees (Professor/Lecturers/Assistant Professor/Associate Professors/Scientist):** National Institute of Technology (NIT), Jalandhar; National Institute of Pharmaceutical Education and Research (NIPER), Rai Barielly; Sant Longwal Institute of Engineering and Technology (MHRD), Sangrur, Punjab; Kumaun University, Nainital; G. B. Pant Institute of Himalayan Environment and Development, Kosi Katarmal, Almora; Council for Scientific and Industrial Research (CSIR), New Delhi; Forest Research Institute, Dehradun; Kanahiya Lal DAVPG College, Roorkee; Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun; Central Council for Research in Ayurveda and Siddha, Janakapuri, Delhi; Hansh Raj College, University of Delhi; St. Stephens' College, University of Delhi; Zakir Hussain College; Acharya Narender Dev College, University of Delhi; Panipat Institute of Engineering Technology, Panipat; DAV University, Jalandhar; KM College, DU; All India Institute of Medical Sciences (AIIMS), New Delhi;

Expert-Funding Agencies:

- **Member project evaluation committee**, Uttarakhand State Council for Science and Technology (UCOST), Dehradun, Uttarakhand (2007 – on wards).
- **UGC-Nominee, SAP Programme**, Department of Chemistry, Shivaji University, Kolhapur (**2013 - 2018**).
- **UGC-Nominee, SAP Programme**, Department of Chemistry, GNDU, Amritsar (**2014 - 2019**).
- **Project Advisory Committee (PAC)**, International Cooperation Division (ICD), Department of Science & Technology (DST), New Delhi (**2014 - 2016**).

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

- **Member, Board of Studies (Chemistry)**, HNB Garhwal University, Srinagar, Srinagar (Garhwal), UA (**2012-2014; 2014 - 2016**).
- **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** Utrakhand 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 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, (July 2010 – Till Date).
- **Member Committee of Courses**, University of Delhi, Delhi, (March 2010 – Till Date).
- **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, Uttaranchal (2007 – on wards).

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-Till Date).
- 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).
- SGTB Khalsa Colleges, University of Delhi, Delhi, (July 2013 to Till Date).

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 - 2015**.
- 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**.

Examination:

- Lucknow University; Kumaun University; H. N. B. University, Garwal, Srinagar; G. B. Pant University of Agriculture and Technology, Pant Nagar; RML Avadh University Faizabad; Pune University; Jammu University; Jammia Millia Islamia University; Kanpur University; Rohilkhand University; Jamia Hamdard University; Banaras Hindu University; Allahabad University; Panjab University; Guru Nanak Dev University; Jawaharlal Nehru University; Indian Institute of Technology, Delhi; Periyar University, Selam; Rajasthan University; Central Drug Research Institute (CDRI), Lucknow; Kurukshetra University; National Institute of Pharmaceutical Education and Research (NIPER), Mohali; Periyar University, Salem.

Other Activities

MEMBER INTERNATIONAL EDITORIAL BOARD:

➤ Associate Editor

- ❖ Journal of the Indian Chemical Society (Organic Section) **2011 – 2013**.
- ❖ International Journal of Drug Discovery, Published by Bioinfo Publications, <http://www.bioinfo.in/contents.php?id=24&page=editorial> (**2010-Till Date**).

➤ 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 3.14**.
- ❖ Marine Drugs <http://www.mdpi.org/marinedrugs/editors.htm> [2005-Till Date] **Impact Factor 3.854**.
- ❖ Clinical Cancer Drugs, Published by Bentham, <http://www.benthamscience.com/ccand/EBM.htm> (**2012-Till Date**).
- ❖ Research and Reports in Medicinal Chemistry, Published by Dove Medical Press, <http://www.dovepress.com/honorary-editorial-board-research-and-reports-in-medicinal-chemistry-edboard133> (**2011-Till Date**).
- ❖ Journal of Pharmaceutics, <http://www.hindawi.com/39402737/> (**2012-Till Date**).
- ❖ The Open Catalysis Journal, Published by Bentham, <http://www.benthamscience.com/open/tocatj/EBM.htm> (**2009-Till Date**).
- ❖ International Journal of Biological and Chemical Sciences (**2007-Till Date**).
- ❖ Chemistry and Biology Interface, Published by ISCB (**2011-Till Date**).
- ❖ ARKIVOC http://www.arkatusa.org/ark/ARKIVOC/arkivoc_referees.aspx

Guest Editor for Special Journal Issues:

- Anti-Cancer Agents in Medicinal Chemistry (**Impact Factor 3.14; 2013**); <http://www.benthamscience.com/cmca/Special-Issues.htm>.
- Anti-Cancer Agents in Medicinal Chemistry (**Impact Factor 3.14; Two issues, 2008**).
- Indian Journal of Chemistry-Section B (**Impact Factor 0.66; 2009**).