

Professor Diwan S Rawat, FRSC, Cchem (London)

Department of Chemistry, University of Delhi

E. Mail: diwansrawat@gmail.com,

dsrawat@chemistry.du.ac.in

ORCID No: orcid.org/0000-0002-5473-7476

Web of Science ResearcherID: B-1150-2008

Scopus Author ID: 35498443400



Associate Editor:

- Nature Scientific Reports, Impact Factor : 4.122
- RSC Advances (Royal Society of Chemistry) Impact Factor : 3.049

Expertise : Development of small organic molecules as antimalarial, antimicrobial, anticancer and anti-Parkinson agents. Nanocatalysis

Total Publications: 148

Citations : 4660

H-index : 42

i10-index: 108

Patents : 8

PhD Supervision : 20

EDUCATION

Ph. D, Organic Chemistry, Central Drug Research Institute (CDRI), Lucknow, UP/ Kumaun University, Nainital, Uttrakhand, India, 1998.

M.Sc.*, Chemistry, Kumaun University, Nainital, Uttrakhand, India, 1993, First Position in the University.

AWARDS/HONORS

- **Sectional President (Chemical Sciences), Indian Science Congress Association (2019 – 2020).**
- **Brand Ambassador, Bentham Science Publishers (2017).**
- **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 (PhD Students)

- **Best poster award** in ACS on Campus India Roadshow-2018, University of Delhi, Delhi, December 9-10, 2018 [**Upasana Gulati**].
- **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 (ISCBC-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 14th ISCB 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).

EDITORIAL BOARD MEMBERSHIP

➤ Associate Editor

- **Scientific Report** (Nature Publisher) 2019 – 2021.
- **RSC Advances 2016 – 2019.**
- **Journal of the Indian Chemical Society** (Organic Section) **2011 – 2013.**

➤ Member International Editorial Board

- Anti-Cancer Agents in Medicinal Chemistry Published by Bentham, (2007-Till Date) **Impact Factor 3.14.**
- Marine Drugs [2005-2015] **Impact Factor 3.978.**

- Chemistry and Biology Interface, Published by ISCB (2011-Till Date).
- Indian Journal of Heterocyclic Chemistry (2013-Till Date)

GUEST EDITOR FOR SPECIAL JOURNAL ISSUES:

- **Current Protein and Peptide Science (Impact Factor 3.154; 2015);**
- **Anti-Cancer Agents in Medicinal Chemistry (Impact Factor 3.14; 2013);**
<http://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).**

AFFILIATIONS:

- Indian Chemical Society, India [Life member since 1996, F 4685].
- UP Association for the Advancement of Science and Technology, India [Life member since 2000].
- Chemical Research Society of India [Life member since 2008, LM 1109].
- Indian Society of Chemist and Biologist [Life member since 2009, LF 499/09].
- Association of Chemistry Teachers, India [Life member since 2013].
- Elected Life Member, The National Academy of Sciences, Allahabad **2007**.
- Indian Science Congress Association, India [Life member since 2013, L 23152].
- Indian Council of Chemist, India [Life Member since 2014, LF/1686].
- Association of Chemistry Teachers, India [Life member since 2013, LM 1301].

RESEARCH/TEACHING EXPERIENCE

ACADEMIC EXPERIENCE:

- **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 (**November 2002-July 2003**).

- **National Institute of Health (NIH) Postdoctoral Fellow**, Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University, West Lafayette, IN, USA (**September 2001-November 2002**).
- **American Cancer Society (ACS) Postdoctoral Fellow**, Department of Chemistry, Indiana University, Bloomington, IN, USA (**November 1999 - September 2001**).
- **Research Fellow**, Central Drug Research Institute, Lucknow, India (**April 1994 - August 1997**).

INDUSTRIAL EXPERIENCE:

- **Scientist, R & D Department, Lupin Laboratories Ltd. Mandideep, M.P., India (September 1998- November 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. (August 1997-September 1998)**. Process and development of Loperamide hydrochloride, promethazine hydrochloride, and triclosan. Handled reaction on 50 kg scale.

ADMINISTRATIVE DUTIES:

- **Provost, Jubilee Hall**, University of Delhi, Delhi (**May 2012 - January 2019**).
- **Warden**, Jubilee Hall, University of Delhi (**September 2003 - May 2012**).
- **OSD, University Press, and Head, Graphic Art Centre**, University of Delhi, Delhi (**January 2011 - May 2017**).
- **Coordinator, M. Tech.** (Chemical Synthesis and Process Technologies), Department of Chemistry, University of Delhi (**December 2010 - July 2016**).
- **Chairman, Governing Body**, Shaheed Rajguru College, University of Delhi, Delhi (**2011- 2012**) and Deen Dayal Upadhyay College (**2019 - Till Date**).
- **Treasurer, Governing Body**, Swami Shradhanand College, University of Delhi, Delhi (**2011-2012**), SGTB Khalsa Colleges, University of Delhi, Delhi (**2014-2014**). Adity Mahavidyalaya, University of Delhi, Delhi (**2014-2015**). Delhi University Students Union (DUSU) (**2012-2017**). Sir Arvindo College, University of Delhi, Delhi (**2017**).
- **Chief Election Officer**, DUSU Election, University of Delhi (**2014-2015, 2015-2016, 2016-2017**).
- **Chief Returning Officer**, DUSU Election, University of Delhi (**2012-2013; 2013-2014**).
- **Returning Officer**, DUSU Election, University of Delhi (**2011-2012**).

PROFESSIONAL TRAINING:

- **Trained GLP Lead Inspector**, National GLP Compliance Monitoring Authority of India, Department of Science and Technology, Govt of India.
- **Trained on 400 MHz NMR**, JEOL Ltd, Tachikawa, Tokyo 190-0012, Japan.

MEMBERSHIP OF COMMITTEES

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 Narendra 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; Uttarakhand Public Service Commission, Mizoram Central University, Nagaland University, NEIST, Jorhat.

Expert-Funding Agencies:

- **Member, INSPIRE Fellowship NBHF/HOPE Committee, DST (2019 – 2022).**
- **Member, Subject Expert Committee, Women Scientist Scheme-A (WOSA), DST (2016 – 2019).**
- **Member Expert Committee, Technological Intervention for Addressing Societal Needs (TIASN), Department of Science & Technology (DST), New Delhi (2016 – 2019).**
- **Project Advisory Committee (PAC), International Cooperation Division (ICD), Department of Science & Technology (DST), New Delhi (2014 – 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).**
- **Member project evaluation committee, Uttarakhand State Council for**

Science and Technology (UCOST), Dehradun, Uttarakhand (2007 -2014).

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

- **Member, Board of Studies** (Chemistry), Central University, Mizoram (2018 - 2021).
- **Member, Institutional Advisory Board (IAB)/Departmental Advisory Board (DAB)**, National Council of Educational Research and Training (NCERT) (2017-2020).
- **Subject Expert, Faculty of Science**, Guru Nanak Dev University, Amritsar (2018 - 2020).
- **Visitors Nominee, Academic Council Member**, HNB Garhwal University, Srinagar, Srinagar (Garhwal), UA (2016-2018).
- **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**, Uttarakhand 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, 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 - Till Date).
- **Co-ordinator, CPDHE Refresher Course**, University of Delhi, (February 15th to March 9th, 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 - 2014**).
- **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 need based package for the orientation of master trainers in Science for Hr. Sec. Stage (Chemistry, NCERT), December 26-29, 2011
- 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, 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.

Conferences and Symposia:

- **Session Chairman**, JAIST Japan-India Symposium on Materials Science 2017, Japan Advanced Institute of Science and Technology, **June 7 – 7, 2017**.
- **Convener; CARBO-XXXI International Conference** on “New Frontiers in Carbohydrate Chemistry and Biology” University of Delhi, **November 14th – 16th, 2016**.
- **Session Chairman**, Assian Network for Natural and Unnatural Materials National University of Singapore, **June 8 – 11, 2016**.
- **Convener; DU-JAIST Indo-Japan Symposium** on Functional Molecules/Materials, University of Delhi, **February 26th – 27th, 2016**.
- **Session Chairman**, Drug Discovery and Therapy World Congree – 2015 (DDTWC 2015), Boston **July 22 – 25, 2015**.
- **Session Chairman**, Indo Japan Symposium on Material Science, Japan Advanced Institute of Science and Technology (JAIST), Japan. **March 2 – 3, 2015**.
- **Session Chairman**, 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. **November 20 – 22, 2014**.
- **Convener; 20th ISCB International Conference (ISCBC-2014)** on Chemistry and Medicinal Plants in Translational Medicine for Healthcare held at University of Delhi, **March 1st – 4th, 2014**.
- **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**, 20th ISCB International Conference (ISCBC-2014) on Chemistry and Medicinal Plants in Translational Medicine for Healthcare held at University of Delhi, **March 1st – 4th, 2014**.
- **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; Agra University, Jammu University, Jawaharlal Nehru Technological University, Hyderabad; University of Kwa Zulu-Natal, South Africa, Jawaharlal Nehru University; Calcutta University, National Chemical Laboratory, Pune. Indian Institute of Integrative Medicine, Jammu; Indian Institute of Technology, Delhi, Mizoram Central University.

COURSES 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 GRANTS FUNDED:

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.**

LIST OF PUBLICATIONS:

Total Publications: 148

Citations: 4650

H-index: 42

i10-index: 108

Key Publications:

American Chemical Society: J. Am. Chem. Soc. (IF = 14.357); ACS Chem. Biol. (IF = 4.952); Org. Lett. (IF = 6.492); ACS Sus. Chem. Engg. (IF = 6.140); J. Org. Chem. (IF = 4.805); Inorg. Chem. (IF = 4.70); ACS Med. Chem. Lett. (IF = 3.794); J. Agric. Food Chem. (IF = 3.412), ACS Omega.

Royal Society: Green Chem. (IF = 8.586); Chem. Commun. (IF = 6.29); RSC Adv (IF = 2.936); New J. Chem. (IF = 3.201); Org. Biomol. Chem. (IF = 3.562); Med. Chem. Commun. (IF = 2.722).

Elsevier Publication: Eur. J. Med. Chem. (IF = 4.816); BBA Biomembrane (IF = 4.647); Biorg. Med. Chem. (IF = 3.12); Biorg. Med. Chem. Lett. (IF = 2.65); Tetrahedron Lett (IF = 2.39).

Wiley Publication: Med. Res. Rev. (IF = 10.72); Adv. Synth. Catal. (IF = 6.453); Chemistry - An Asian Journal (IF: 3.692); FEBS J (IF = 4.25); Asian J. Org. Chem. (IF = 3.275); Chem. Biol. Drug. Des. (IF = 2.802).

Research work Highlighted in the Cover Page

- **Tetrahedron Letters** 59 (24), 13 June 2018
- **Tetrahedron Letters** 57 (4), 5 October 2016
- **ACS Sustainable Chemistry and Engineering** 3 (1), 2015

Research work Highlighted by Synfacts:

Tetrahedron Letters 59, 2341 (2018)	SYNFACTS 2018, 14(08): 0883
Chemistry - An Asian Journal 12, 785 (2017)	SYNFACTS 2017, 13(07), 0766
Tetrahedron Letters 57, 4468 (2016)	SYNFACTS 2016, 12(12), 1314
RSC Advances 6, 2935 (2016)	SYNFACTS 2016, 12(4), 0427
RSC Advances 5, 92121 (2015)	SYNFACTS 2016, 12(2), 0214

PUBLICATIONS

2020

1. Aparna Bahuguna, [Diwan S. Rawat*](#) Recent trends and strategies for the anti-tubercular drug development, **Med. Res. Rev.** **40**, 263-292 (2020). **Impact Factor: 9.791.**
2. Upasana Gulati, U. Chinna Rajesh, [Diwan S. Rawat*](#), JM Zaleski, MgO@Ag hybrid nanocatalysts for activation of CO₂ at ambient pressure to afford esters and lactones, **Green Chem.** <https://doi.org/10.1039/C9GC04040D> (2020). **Impact Factor: 9.405.**
3. Gunjan Purohit, Aneeta Kharkwal [Diwan S. Rawat*](#), CuIn-ethylxanthate a “versatile precursor” for photosensitization of graphene-quantum dots and nanocatalyzed synthesis of imidazopyridines with ideal green chemistry metrics. **ACS Sustainable Chem. Engg.** <http://dx.doi.org/10.1021/acssuschemeng.9b07371>. (2020). **Impact Factor: 6.94.**
4. Upasana Gulati, U. Chinna Rajesh, [Diwan S. Rawat*](#), Renewable RGO@CuI nanocomposites for redox triggered single electron transfer (SET) reaction under aerobic and anaerobic conditions, **ChemCatChem**, <https://doi.org/10.1002/cctc.202000314> (2020). **Impact Factor: 4.495.**
5. Garima Arora, Gagandeep, Assirbad Behura, Tannu Priya Gosain, R. P. Shaliwal, Saqib Kidwai, Padam Singh, Shamseer Kulangara Kandi, Rohan Dhiman, [Diwan S. Rawat](#) and Ramandeep Singh, NSC 18725, a pyrazole derivative inhibits growth of intracellular *Mycobacterium tuberculosis* by induction of autophagy **Front. Microbiol.** **10**, 3051 – 3063 (2020), **Impact Factor: 4.259.**
6. Gagandeep, Prince Kumar, Shamseer Kulangara Kandi, Kasturi Mukhopadhyay, [Diwan S. Rawat*](#), Synthesis of novel monocarbonyl curcuminoids, evaluation of their efficacy against MRSA, including ex vivo infection model and their mechanistic studies, **Eur. J. Med. Chem.** **Accepted (2020).** **Impact Factor: 4.816.**
7. Upasana Gulati, U. Chinna Rajesh, [Diwan S. Rawat*](#), Magnetically recoverable Ni@CuI hybrid nanocatalysts to afford spiropyrraline heterocycles from ketoximes and alkenes, **Asian J. Org. Chem.** <https://doi.org/10.1002/ajoc.202000145> (2020). **Impact Factor: 3.275.**
8. Gunjan Purohit, [Diwan S. Rawat*](#), Oliver Reiser, Palladium nanocatalysts encapsulated on porous silica@magnetic carbon-coated cobalt nanoparticles for sustainable hydrogenations of nitroarenes, alkenes and alkynes, **ChemCatChem**, **12**, 569 – 575 (2020). **Impact Factor: 4.495.**

9. Kamlesh Kumar, Prashant Kumar, Penny Joshi, [Diwan S Rawat*](#), IBX-TfOH mediated oxidation of alcohols to aldehydes and ketones under mild reaction conditions, **Tetrahedron Letters**, doi.org/10.1016/j.tetlet.2020.151749 (2020). **Impact Factor: 2.379.**

2019

10. Gunjan Purohit, [Diwan S. Rawat*](#), Hierarchically porous mixed oxide sheet like copper-aluminium (CuAl-MO) nanocatalyzed synthesis of 2-alkynyl-pyrrolidines/piperidines and their ideal green chemistry metrics. **ACS Sustainable Chem. Engg.** *7*, 19235–19245 (2019). **Impact Factor: 6.94.**
11. Mohit Tripathi, Dale Taylor, Shabana I. Khan, Babu L. Tekwani, Prija Ponnann, Thirumurthy Velpandian, Ujjalkumar Das, [Diwan S. Rawat*](#) 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 (2019). **Impact Factor: 3.84. AVERAGE IF = 469.485/128 = 3.668.**
12. Girjesh Kumar Verma, Manish Rawat, [Diwan S. Rawat*](#) [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.** 4101–4104 (2019). **Impact Factor: 3.029.**
13. Manish Rawat, [Diwan S Rawat](#), CuI@Al₂O₃ catalyzed synthesis of 2-aminonicotinonitriles derivatives under solvent free condition, **Tetrahedron Lett.** *60*, 1153 – 1157 (2019), [[Highlighted in the Cover Page](#)], **Impact Factor: 2.379.**
14. S. S. Maurya, A. Bahuguna, S. I. Khan, D. Kumar, R. Kholiya, [Diwan S. Rawat*](#), N-Substituted aminoquinoline-pyrimidine hybrids: Synthesis, *in vitro* antimalarial activity evaluation and docking studies. **Eur. J. Med. Chem.** *162*, 277 – 289 (2019), **Impact Factor: 4.816.**
15. Prince Kumar, S. K. Kandi, S. Manohar, K. Mukhopadhyay, [Diwan S. Rawat*](#), Monocarbonyl curcuminoids with improved stability as antibacterial agents against *Staphylococcus aureus* and their mechanistic studies, **ACS Omega**, *4*, 675 – 687 (2019), **Impact Factor: 2.584.**

2018

16. B. Negi, P. Poonan, M. F. Ansari, D. Kumar, S. Aggarwal, R. Singh, A. Azam, [Diwan S Rawat*](#) Synthesis, antiamoebic activity and docking studies of

- metronidazole-triazole-styryl hybrids. **Eur. J. Med. Chem.** 150, 633 – 641 (2018). **Impact Factor: 4.816.**
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3. [Diwan S Rawat*](#), Sunny Manohar, U. Chinna Rajesh, Amino-quinoline based hybrids and uses thereof, **IN 283657 (2017).**
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5. [Diwan S. Rawat,*](#) Mukul Sharma, Nilanjan Roy, Rajesh K. Rohilla, Preparation of Substituted cyclohexane-1,2-diamine derivatives and related compounds as antimicrobial agents. **IN 2008DE01462 A 20120914 (2012).**
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BOOK/BOOK CHAPTERS:

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- 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).
- **Science and Life:** Foundation Course under FYUP, University of Delhi (Co-Author, 2013).

- **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)**.
- **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 Paper *J. Am. Chem. Soc.* 123, 9675-9676 **(2001)** has been mentioned in the book entitled “Strategic Applications of Named Reactions in Organic Synthesis” Publisher: Elsevier, ISBN: 0-12-429785-4, p 56.
- Developed on line tutorial on spectroscopy for MSc/PhD students (www.du.ac.in/du/dsrawat-spectroscopy-tutorial.pdf).

INVITED TECTURES:

1. **Diwan S Rawat**, “Sustainable organic synthesis via nanocatalysis” International Conference on Advances in Physical, Chemical and Mathematical Sciences, RTM University, Nagpur, February 13-16, 2020.
2. **Diwan S Rawat**, “The Death of Vitalism and Birth of Organic Chemistry: Impact on Human Health” National Conference on Relationship between Chemical Sciences and Society 2020, Shivaji College. January 17, 2020.

3. **Diwan S Rawat**, "Chemistry After Wöhler's Urea: Impact on Health and Environment" INSPIRE Camp, KIET Institutes, Gaziabad, January 8, 2020.
4. **Diwan S Rawat**, "Hybrid strategy: A versatile approach for design and development of antimalarial and nanocatalysis" Presidential address, 107th Indian Science Congress, Chemical Sciences Section. Jan 4th, 2020. University of Agriculture Sciences, Bangalore.
5. **Diwan S Rawat**, "Resetting the antimalarial arms race: Development of novel molecules based on hybrid approach" National Seminar on Science and Technology: Rural Development, CSMJ University, Kanpur, December 3-4, 2019.
6. **Diwan S Rawat**, "Nanocatalysts in Organic Synthesis: A Contemporary Approach" 7th Asian Network for Natural and Unnatural Materials, Gujrat University, Ahmedabad, September 27-29, 2019.
7. **Diwan S Rawat** "Wöhler's Urea to Modern Organic Chemistry: Impact on Health and Environment" Sri Aurvindo College, Delhi, September 27, 2019.
8. **Diwan S Rawat** "Wöhler's Urea to Modern Organic Chemistry: Impact on Health and Environment" Sri Aurvindo College, Delhi, September 27, 2019.
9. **Diwan S Rawat** "Wöhler's urea to molecular hydrides in drug discovery" Torrent Research Centre, Ahmdadad, August 14, 2019.
10. **Diwan S Rawat** "NMR spectroscopy and its role in structure determination" Dolphin Institute, Dehradun, April 27, 2019.
11. **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.
12. **Diwan S Rawat** "Development of organic chemistry and its impact on human health", BITS, Pilani, April 18, 2019.
13. **Diwan S Rawat** "Chemistry, sustainable development and human health", Hansraj College, University of Delhi, March 16, 2019.
14. **Diwan S Rawat** "Chemistry, sustainable development and human health", Hansraj College, University of Delhi, March 16, 2019.
15. **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.

16. **Diwan S Rawat** “Organic spectroscopy and its role in structure determination”, ARSD College, Delhi, March 1, 2019.
17. **Diwan S Rawat** “NMR spectroscopy: basic introduction to structure determination”, Sriram Institute, Delhi, February 27, 2019.
18. **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.
19. **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.
20. **Diwan S Rawat** “Lead identification *via* rationale drug design”, 25th ISCB International Conference, Trends in chemical and biological sciences: Impact on health and environment, Lucknow, January 12-14, 2019.
21. **Diwan S Rawat**, “Green Chemistry by Nano-Catalysis: Nano-Materials for Organic Transformations”, National seminar on frontiers in heterogeneous catalysis, MS University, Vadodara, December 8-9, 2018.
22. **Diwan S Rawat** “Molecular hybridization in drug discovery: Challenges and opportunitie’ National seminar on chemistry in interdisciplinary research, Nagaland University, Nagaland, November 9-10, 2018 [**KEY NOTE SPEAKER**].
23. **Diwan S Rawat** “National seminar on quality improvement in higher education- Gyan Kumbh 2018” Uttakhand Government and Patanjali Yog Peeth, Haridwar, November 3-4, 2018.
24. **Diwan S Rawat** “Nano catalysis in organic conversions” National seminar on role of science and technology in nation building, Indian Science Congress Asspciation, Haridwar Chapter, GB Pant Agriculture University, Pantnagar, October 13, 2018.
25. **Diwan S Rawat** “Fundamentals of NMR spectroscopy and its role in structure determination” Daulat Ram College, Delhi University, October 9, 2018.
26. **Diwan S Rawat** “Green chemistry by nanocatalysis” National Conference on “Emerging trends and advances in chemical science” St. Stephans College, Delhi University, September 26, 2018.
27. **Diwan S Rawat** “NMR Spectroscopy: Basic introduction to structure determination” Kirorimal College, Delhi University, September 18, 2018.

28. **Diwan S Rawat** “Organic Spectroscopy: Sailing through confluence of introduction & structure determination” National Institute of Technology, Jalandhar, August 17, 2018.
29. **Diwan S Rawat** “Spectrum to Structure” UGC Refresher Course, UGC-HRDC Center, Kumaun University, Nainital. July 30, 2018.
30. **Diwan S Rawat** “Organic Spectroscopy” UGC Refresher Course, UGC-HRDC Center, Kumaun University, Nainital. July 30, 2018.
31. **Diwan S Rawat** “Lead identification via rationale drug design” ISCB National Conference on “Role of Chemistry & Biology Interface in Drug Research” Grand Tulip Hotel, Lucknow. June 23, 2018.
32. **Diwan S Rawat**, “An art of drug discovery” HNB Central University, Srinagar. April 27-28, 2018 [**Key Note Speaker**].
33. **Diwan S Rawat**, “Hybridization approach: An alternative of combination therapy in medicinal chemistry” DAV University, Indore, March 24, 2018 [**Key Note Speaker**].
34. **Diwan S Rawat**, “Joy of drug discovery” Amity University, Manesar, February 6, 2018.
35. **Diwan S Rawat**, “Characterization of organic compounds by spectroscopic techniques” National Tobacco Research Laboratory, Noida, January 30, 2018.
36. **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.
37. **Diwan S Rawat**, “Aminoquinolines: Exploration of medicinal potential” Emerging trends in drug development and natural products, University of Delhi, January 12-14, 2018.
38. **Diwan S Rawat**, “Molecular hybridization a new approach drug discovery” School of Material Sciences, Japan Advanced Institute of Science and Technology, October 5, 2017.
39. **Diwan S Rawat**, “Molecular hybridization: Reality or myth” Toyama University, Toyama, October 4, 2017.
40. **Diwan S Rawat**, “Molecular hybridization and drug discovery” Almeno Pvt Ltd Hyderabad, September 9, 2017.

41. **Diwan S Rawat**, "Nano-catalysis and sustainable synthesis" Indian Institute of Technology (ISM) Dhanbad, June 15, 2017.
42. **Diwan S Rawat**, Organic Spectroscopy: Entertainment or Melancholy, Indian Institute of Technology (ISM) Dhanbad, June 15, 2017.
43. **Diwan S Rawat**, "Why young minds should persue chemistry" Hansraj College, April 10, 2017.
44. **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.
45. **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.
46. **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**).
47. **Diwan S Rawat**, "Chemistry, human health and environment" INSPER-Mentor, GD Goenka University, Gurgaon, January 13, 2017.
48. **Diwan S Rawat**, "How to make spectroscopy instresting?" Refresher course for college teachers, Jawaharlal Nehru University, Delhi, January 5, 2017.
49. **Diwan S Rawat**, "Molecular hybrid based drug design: A myth or reality" 35th National Conference of Indian Council of Chemist, HV Desia College, Pune, September 22 - 24, 2016 [**Professor SP Hiremath Award Lecture**].
50. **Diwan S Rawat**, "Nanocatalysis and prospects of green chemistry" School of Material Science, Japan Advanced Institute of Science and Technology (JAIST), October 12, 2016.
51. **Diwan S Rawat**, "Molecular hybrids: Future prospectes" Agharkar Research Institute, Pune, September 27, 2016.
52. **Diwan S Rawat**, "Molecular hybrids: innovative approach of drug desgn, Central Drug Research Institute, Lucknow, August 24, 2016.

53. **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.
54. **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**.
55. **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)**.
56. **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)**.
57. **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)**.
58. **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**.
59. **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**.
60. **Diwan S Rawat**, "Significance of chemical education" INSPIRE camp, SRM University, **December 16, 2015**.
61. **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**.
62. **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)**.

63. **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)**.

64. **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**.

65. **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**.

66. **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**

67. **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**.

68. **Diwan S Rawat**, "Challenges and new opportunities in drug discovery" Chem Fest, Hindu College, University of Delhi, **August 22, 2015**.

69. **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**.

70. **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**.

71. **Diwan S Rawat**, "Medicinal chemistry: Opportunities and challenges" McLean Hospital, Harvard University, Boston **July 20, 2015**.

72. **Diwan S Rawat**, "Spectroscopic tools for organic chemist: An introduction" CPDHE Refresher Course, **University of Delhi, June 30, 2015.**
73. **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.
74. **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.
75. **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.**
76. **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.**
77. **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.**
78. **Diwan S Rawat**, "NMR Spectroscopy and its applications" CPDHE Refresher Course, **Delhi Technological University, Delhi, December 21, 2014.**
79. **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, **15 - 17 December 2014.**
80. **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. **November 20 – 22, 2014.**

81. **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. **November 7th – 9th, 2014.**
82. **Diwan S Rawat**, “Spectroscopy: Introduction to Structure Elucidation” CPDHE Refresher Course, **Jamia Millia Islamia University, Delhi, October 25, 2014.**
83. **Diwan S Rawat**, “Pros and cons of drug development” KM College, University of Delhi, **September 24, 2014.**
84. **Diwan S Rawat**, “Excitement and agony of a medicinal chemist!” Deen Dayal Upadhaya College, University of Delhi, **August 26, 2014.**
85. **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.**
86. **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.**
87. **Diwan S Rawat**, “NMR Spectroscopy and its Role in Structure Determination” M.J.P ROHILKHAND UNIVERSITY, **February 21, 2014.**
88. **Diwan S Rawat**, “Drug Discovery: Long Road with Complete Uncertainty”, Gautam Budha University, Noida, *Science Day Celebration*, **February 28, 2014.**
89. **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).**
90. **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).**

91. [Diwan S Rawat](#), "Identification of lead antimalarial through virtual screening" 8th Utrakhhand Science and Technology Congress" Doon University, Dehradun. **December 26-28, 2013 (Key Note Address).**
92. [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.**
93. [Diwan S Rawat](#), "Recyclable catalysis in Organic Synthesis: One Step towards Green processes" Workhardt Research Centre, Aurangabad. **December 13, 2013.**
94. [Diwan S Rawat](#), "Medicinal Chemistry: Basics to Drug Discovery-DST INSPIRE Camp, HNB Garhwal Central University, Srinagar **December 11, 2013.**
95. [Diwan S Rawat](#), "Medicinal Chemistry: An Ever Green Area with Complete Uncertainty" **University Institute of Pharmaceutical Sciences, Punjab University, Chandigarh, November 18 - 21, 2013.**
96. [Diwan S Rawat](#), "NMR Spectroscopy: Basic Introduction to Structure Determination" CPDHE Refresher Course, **Jamia Millia Islamia University, Delhi, November 26, 2013.**
97. [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.**
98. [Diwan S Rawat](#), "Drug Discovery: Excitement and Agony, Alwar Institute of Engineering and Technology, Alwar-DST INSPIRE Camp, **August 8, 2013.**
99. [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.**
100. [Diwan S Rawat](#), "Antimalarial Drug Development From Simple in vitro Screening to Lead Identification" 19th ISCB International Conference (ISCBC-2013), **Recent Advances and Current Trends in Chemical and Biological Sciences**, Department of Chemistry, Mohanlal Sukhadia University, Udaipur, Rajasthan, **March 2-5, 2013.**

101. **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**.
102. **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**.
103. **Diwan S Rawat**, Inspiring Young Minds: Biographies of Great Indian Scientist, **DST-INSPIRE Camp, Asian Institute, Patiala, January 5, 2013**.
104. **Diwan S Rawat**, Nuclear Magnetic Spectroscopy: Basic Principle to Structure Determination, **Centre for Professional Development in Higher Education**, University of Delhi, **January 3, 2013**.
105. **Diwan S Rawat**, Spectral Problems: A Puzzle!, Thiagarajar College, Madurai Kamraj University, Madurai, **26th December 2012**.
106. **Diwan S Rawat**, Malaria: How to take it?, Thiagarajar College, Madurai Kamraj University, Madurai, **26th December 2012**.
107. **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**.
108. **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**.
109. **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)**.
110. **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**.
111. **Diwan S. Rawat**, "Library of small organic molecules and their medicinal potential" **Swami Shradhanand College, University of Delhi, Delhi, April 11, 2012**.

112. **Diwan S. Rawat**, "Spectroscopy: Why it is so important" **Centre for Professional Development in Higher Education**, Banaras Hindu University, **March 23, 2012**.
113. **Diwan S. Rawat**, "Spectrum to structures" **Centre for Professional Development in Higher Education**, Banaras Hindu University, **March 23, 2012**.
114. **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**.
115. **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**.
116. **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**.
117. **Diwan S Rawat**, "Tetraoxane and aminoquinoline scaffolds as antimalarials", Chemical Research Society of India, South Zonal Meeting, Pondicherry University Pondicherry, **December 16-17, 2011**.
118. **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**.
119. **Diwan S Rawat**, "Exploring structural diversity in tetraoxanes and aminoquinolines 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**.
120. **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**.
121. **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**.

122. **Diwan S Rawat**, Spectral data to molecular structure, **Centre for Professional Development in Higher Education**, University of Delhi, Delhi, **February 24, 2011**.
123. **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**.
124. **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**.
125. **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**.
126. **Diwan S Rawat**, "Tetraoxanes, and tetraoxane based hybrids as potential antimalarial agents" **14th National Organic Symposium Trust (NOST), Goa, December 4th - 8th, 2010**.
127. **Diwan S. Rawat**, "Natural products as a source of drug molecules" **Centre for Professional Development in Higher Education**, Kumaun University, Delhi, **December 17, 2010**.
128. **Diwan S. Rawat**, "Spectral data to molecules structure" **Centre for Professional Development in Higher Education**, Kumaun University, Delhi, **December 17, 2010**.
129. **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**.
130. **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*).
131. **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**.

132. **Diwan S. Rawat**, "Drug discovery: Excitement and agony" **KEME 2009**, Hans Raj College, University of Delhi, Delhi, **17th December 2009**.
133. **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)**.
134. **Diwan S. Rawat**, "Natural product chemistry: Opportunities and challenges" **Centre for Professional Development in Higher Education**, Jamia Millia University, Delhi, **August 31, 2009**.
135. **Diwan S. Rawat**, "Bioprospecting for secondary metabolites" **Centre For Environmental Management of Degraded Ecosystem**, University of Delhi, Delhi-110007, **March 21, 2009**.
136. **Diwan S. Rawat**, "Endoperoxides: Synthesis and Antimalarial Activity Evaluations" **Indo-Denish Seminar on Bioorganic Chemistry**, University of Delhi, Delhi-110007, India; **2nd March 2009**.
137. **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**.
138. **Diwan S. Rawat**, "Natural product and organic spectroscopy" **Centre for Professional Development in Higher Education**, University of Delhi, Delhi-110007, **January 27, 2009**.
139. **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**.
140. **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**.
141. **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**.

142. **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.**
143. **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.**
144. **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.**
145. **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, **February 22-24, 2008.**
146. **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.**
147. **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**).
148. **Diwan S. Rawat**, “Natural product chemistry: Opportunities and challenges”. **Centre for Professional Development in Higher Education**, University of Delhi, Delhi-110007. **December 29, 2007.**
149. **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.**
150. **Diwan S. Rawat** “Bergman cyclization: Old reaction-New developments” G. B. Pant University of Agriculture and Technology, Pant Nagar, UA. **December 23, 2005.**

151. **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**.
152. **Diwan S. Rawat** "Attended Eleventh NOST Symposium" Goa, **October 25-29, 2005**.
153. **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**.
154. **Diwan S. Rawat**, and Richard A Gibbs, "Design and Syntheses of Substituted Farnesyl Pyrroosphates: 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**.
155. **Diwan S. Rawat**, "Eneidyne: Reactivity Modulation by the use of Metals". Central Drug Research Institute, Lucknow, India **February 25, 2003**.
156. **Diwan S. Rawat**, "Design and Synthesis of Genotoxic Eneidyne. **Centre for Professional Development in Higher Education**, University of Delhi, Delhi-110007. **September 11, 2003**.
157. **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**.
158. **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**.
159. **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**.
160. **Diwan S. Rawat** and Jeffrey M. Zaleski, "Ligand Field Control of Thermal Bergman Cyclization Reactions, Department of Chemistry, Kumaun University, Nainital, India. **September, 2001**.

PRESENTATION OF WORK IN NATIONAL/INTERNATIONAL SEMINARS/CONFERENCES:

1. Gunjan Purohit and **Diwan S. Rawat***, Sustainable synthesis of nanomaterial: Application for one-pot multicomponent reactions, **Virtual Conference on Materials for Energy Harvesting and Catalysis MEHC-2020, India, May 1 – 3, 2020 (Oral Presentation)**.
2. Gunjan Purohit and **Diwan S. Rawat***, Sustainable synthesis of nanomaterial and their catalytic potential for one pot multicomponent reactions, **107th ISC Conference-2020, University of Agricultural Sciences, GKVK, Bangalore, India, January 3-7, 2020 (Oral Presentation)**.
3. Aparna Bahuguna, P. V. Bharatam and **Diwan S. Rawat***, 3D QSAR studies on cationic amphiphilic indole derivatives for antimycobacterial activity, **107th ISC Conference-2020, UAS, GKVK, Bangalore, India, January 3-7, 2020 (Poster)**.
4. Upasana Gulati, U. Chinna Rajesh, Jeffery M. Zaleski and **Diwan S. Rawat***, MgO@Ag hybrid nanocatalyst for ambient pressure activation of CO₂ to afford esters and lactones, **Indian Science Congress-2020, University of Agricultural Sciences, Bangalore, India, January 3-7, 2020 (Poster)**.
5. Srishti Rawat, Tannu Priya Gosain, Ramandeep Singh and **Diwan S. Rawat***, Design, synthesis and biological evaluation of novel benzoxazole derivative as anti-tubercular compounds, **107th ISC -2020, University of Agricultural Sciences, Bangalore, India, January 3-7, 2020 (Poster)**.
6. Manish Rawat and **Diwan S. Rawat***, Fe₃O₄@PmPDs@Cu₂O and CuO@g-C₃N₄ nanoparticles catalysed synthesis of biologically active heterocycles, **107th Indian Science Congress Conference-2020, University of Agricultural Sciences, GKVK Campus, Bangalore, Karnataka, India, January 03-07, 2020 (Poster)**.
7. Gagandeep, Garima Arora, Assirbad Behura, Tannu Priya Gosain, Ravi P Shaliwal, Saqib Kidwai, Padam Singh, Shamseer Kulangara Kandi, Rohan Dhiman, Ramandeep Singh and **Diwan S. Rawat**, Identification of NSC 18725, a pyrazole derivative *via* phenotypic screening as the intracellular *Mycobacterium tuberculosis* inhibitor by induction of autophagy, **107th Indian Science Congress-2020, University of Agricultural Sciences, GKVK Campus, Bangalore, Karnataka, January 3-7, 2020 (Poster)**.
8. Shashikant tiwari and **Diwan S. Rawat***, Metal and base free regioselective synthesis of polysubstituted indolizines. **107th ISC Conference-2020, University of Agricultural sciences, GKVK, Bangalore, India, January 03-07, 2020 (Poster)**.
9. Upasana Gulati, U. Chinna Rajesh and **Diwan S. Rawat***, RGO@CuI composites and Ni@CuI core-shells as recyclable nanocatalysts for the synthesis of biologically active N-heterocycles, **25th ISCB Conference-2019, Hotel Golden Tulip, Lucknow, India, January 12-14, 2019 (Poster)**.

10. Srishti Rawat, Tannu Priya Gosain, Ramandeep Singh and [Diwan S. Rawat*](#), *Mycobacterium tuberculosis* membrane inhibitors: Design, synthesis, biological evaluation and ADME analysis, **25th ISCB Conference-2019, Hotel Golden Tulip, Lucknow, India, January 12-14, 2019 (Poster)**.
11. Manish Rawat and [Diwan S. Rawat*](#), CuO@NiO and CuI@Al₂O₃ nanoparticles catalysed synthesis of biologically active heterocycles, **25th ISCB Conference-2019, Hotel Golden Tulip, Lucknow, India, January 12-14, 2019 (Poster)**.
12. Gagandeep, Shamseer Kulangara Kandi, Prince Kumar, Kasturi Mukhopadhyay, and [Diwan S. Rawat*](#), C-5 Curcuminoids: Synthesis and antibacterial activity against *Staphylococcus aureus* and their mechanistic studies, **25th ISCB Conference-2019, Hotel Golden Tulip, Lucknow, India, January 12-14, 2019 (Poster)**.
13. Upasana Gulati, U. Chinna Rajesh and [Diwan S. Rawat*](#), Design and synthesis of RGO@CuI composites and Ni@CuI core-shells as recyclable nanocatalysts for the synthesis of value added synthons, **National Seminar on Frontiers in Heterogeneous Catalysis (HETCAT-2018), Grand Mercury (Surya Place) Opp Parsi Ajiary, Sayajigunj, Vadodara, India. Dec 8-9, 2018 (Poster)**.
14. Srishti Rawat, Tannu Priya Gosain, Ramandeep Singh and [Diwan S. Rawat*](#), Design, synthesis, pharmacokinetic analysis and biological evaluation of indole derivatives as *Mycobacterium tuberculosis* membrane inhibitors, **National Seminar on Frontiers in Heterogeneous Catalysis (HETCAT-2018), Grand Mercury (Surya Place) Opp Parsi Ajiary, Sayajigunj, Vadodara, India. Dec 8-9, 2018. (Poster)**.
15. Gagandeep, Shamseer Kulangara Kandi, Prince Kumar, Kasturi Mukhopadhyay and [Diwan S. Rawat*](#), *Lead optimisation of antibacterial C-5 Curcuminoids against Staphylococcus aureus and their mechanistic investigations*, **National Seminar on Frontiers in Heterogeneous Catalysis (HETCAT-2018), Grand Mercury (Surya Place) Opp Parsi Ajiary, Sayajigunj, Vadodara, India. Dec 8-9, 2018 (Poster)**.
16. Srishti Rawat, Upasana Gulati, U. Chinna Rajesh and [Diwan S. Rawat*](#) CuO@Fe₂O₃ MNPs catalyzed C1-alkynylation of tetrahydroisoquinolines

under green conditions, ACS on **Campus India Roadshow-2018, University of Delhi, Delhi, February 5, 2018 (Poster)**.

17. Upasana Gulati, U. Chinna Rajesh and [Diwan S. Rawat*](#) Development of copper nanocatalysts for decarboxylative organic coupling reactions, **ACS on Campus India Roadshow-2018, University of Delhi, Delhi, February 5, 2018 (Poster)**.
18. Gagandeep, Shamseer Kulangara Kandi, Shabana I. Khan and [Diwan S. Rawat*](#) Lead optimization of 4-aminoquinoline based molecular hybrids as potent antimalarial agents, **ACS on Campus India Roadshow-2018, University of Delhi, Delhi, February 5, 2018 (Poster)**.
19. Manish Rawat and [Diwan S. Rawat*](#) Hierarchically porous sphere like copper oxide (HS-CuO) Nanoparticles catalysed synthesis of Imidazo[1,2-a]pyrimidine derivatives and study of their optical properties, **ACS on Campus India Roadshow-2018, University of Delhi, Delhi, February 5, 2018 (Poster)**.
20. Aparna Bahuguna and [Diwan S. Rawat*](#) Exploring the differences in chemical features of the Wild-type (D6) and mutant (W2) P.falciparum inhibitors using 3D-QSAR And Pharmacophore Modelling approach, **ACS on Campus India Roadshow-2018, University of Delhi, Delhi, February 5, 2018 (Poster)**.
21. Archana Gupta and [Diwan S. Rawat*](#) BF₃·OEt₂ mediated highly stereoselective synthesis of trisubstituted-tetrahydrofuran via [3+2] cycloaddition reaction of 2-arylcyclopropyl ketones with aldehydes, **ACS on Campus India Roadshow-2018, University of Delhi, Delhi, February 5, 2018 (Poster) [Best poster award]**.
22. Girijesh Kumar Verma and [Diwan S. Rawat*](#) Cp*Co(CO)I₂ in catalyst in Organic Synthesis, **ACS on Campus India Roadshow-2018, University of Delhi, Delhi, February 5, 2018 (Poster)**
23. Srishti Rawat, Upasana Gulati, U. Chinna Rajesh and [Diwan S. Rawat*](#) CuO@Fe₂O₃ MNPs catalyzed C1-alkynylation of tetrahydroisoquinolines under green conditions, **CACEE-2018, TIFR-Mumbai; January 10-12, 2018 (Poster)**.
24. Gunjan Purohit, U. Chinna Rajesh, and [Diwan S. Rawat*](#) Sustainable synthesis of nanomaterial and their catalytic potential for one pot multicomponent reactions, **CACEE-2018; TIFR-Mumbai; January 10-12, 2018 (Poster)**.

25. Upasana Gulati, U. Chinna Rajesh and Diwan S. Rawat.* Development of copper nanocatalysts for decarboxylative organic coupling reactions, **CACEE-2018, TIFR-Mumbai; January 10-12, 2018 (Poster)**.
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71. Rohit Kholiya, U. Chinna Rajesh and [Diwan S. Rawat](#) “**Chiral Ionic Liquids as Versatile Recyclable Organocatalysts in One-pot Organic Conversions**”, 20th ISCB International Conference on Chemistry and Medicinal plants in Translational Medicine for Healthcare, Department of Chemistry, University of Delhi, Delhi, India, **March 1-4, 2014**. (Poster)
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77. Bineet Sharma, Kiyotaka Sugiyama, Yoshiaki Ukita, [Diwan S Rawat](#), Yuzuru Takamura **“Study on particle trapping by micro vortex chamber for single cell washing”** International symposium on advanced materials, Japan Advanced Institute of Science and Technology (JAIST), **October 17-18, 2013**.
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79. U. Chinna Rajesh, JinfengWang, Takuya Tsuzuki and [Diwan S. Rawat](#), **“Reduced graphene oxide/ZnO composite: An efficient novel recyclable heterogeneous catalyst in synthesis of various 3-substituted indoles in water”** IX National Organic Symposium Trust (J-NOST) Conference for young researchers, IISER Bhopal, India, **December 4-6, 2013** (Oral)
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82. Bineet Sharma, Kiyotaka Sugiyama, Yoshiaki Ukita, [Diwan S Rawat](#), Yuzuru Takamura **“Study on particle trapping by micro vortex chamber for single cell washing”** International symposium on advanced materials, Japan Advanced Institute of Science and Technology (JAIST), **October 17-18, 2013.** (Poster)
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110. [Nitin Kumar](#), H. Atheaya, Mukul Sharma, Shabana I. Khan and [Diwan S Rawat](#), “Design, synthesis, characterization and antimalarial activity evaluation of tetraoxane based compounds” 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)**.
111. [Sunny Manohar](#), Himanshu Atheaya, Shabana I. Khan and [Diwan S Rawat](#), “Synthesis and antimalarial activity evaluation of 4-aminoquinoline-triazine and aminoquinoline-triazole conjugates” 14th ISCB International Conference (ISCB-2010), Chemical biology for discovery: Perspectives and

challenges, Central Drug Research Institute, Lucknow, Lucknow, **January 15th-18th, 2010 (Poster)**.

112. Beena, Deepak Kumar, R. K. Rohilla, N. Roy and **Diwan S Rawat**, "Metronidazole-triazole conjugates as antibacterial and antiamebic agents" 14th ISCB International Conference (ISCBC-2010), Chemical biology for discovery: Perspectives and challenges, Central Drug Research Institute, Lucknow, Lucknow, **January 15th-18th, 2010 (Poster)**.
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115. Nitin Kumar, Mukul Sharma, H. Atheaya, and **D. S. Rawat***, "Synthesis and Antimalarial Activity of Substituted Tetraoxanes" **11th CRSI National Symposium in Chemistry**, National Chemical Laboratory, Pune, **February, 6-8, (2009)**.
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117. Mukul Sharma, Mukesh C Joshi, N. Roy, Diwan S. Rawat*, Synthesis and antimicrobial activity of cyclic enediynes. "**12th ISCB Conference, International Conference on the Interface of Chemistry-Biology in Biomedical Research**" BITS, Pillani, **February 22-24, 2008**.
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120. [Mukesh Chandra Joshi](#), [Diwan S. Rawat*](#), "Synthesis, characterization and thermal reactivity of cyclic/acyclic enediynes" **10th International conference of ISCB on Drug discovery: Perspective and challenges**, Central Drug Research Institute, Lucknow, UP, India, **February, 24-27, (2006)**.
121. Amanda J. Krzysiak, Sarah A. Reigard, [Diwan S. Rawat](#), Richard A. Gibbs, **Abstracts of Papers, 229th ACS National Meeting, San Diego, CA, United States, March 13-17, 2005 (2005)**.
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126. Sarah A. Reigard, [Diwan S. Rawat](#), and Richard A. Gibbs. "Synthesis and Biological Evaluation of New Farnesyl Diphosphate Analogues" **MAGGS University of Chicago, USA, June 26-28, 2002 (Poster)**.
127. [Diwan S. Rawat](#), Pedro J. Benites, and Jeffrey M. Zaleski, "Syntheses of Flexible Metalloenediynes with Low Thermal Cyclization Temperatures". **222nd ACS National Meeting Chicago, IL, USA, August, 26-30, 2001 (Paper)**.
128. Pedro J. Benites, Brain J. Kraft, [Diwan S. Rawat](#), and Jeffrey M. Zaleski, "Photoinduces Bergman Cyclization of Copper Metalloenediynes." **222nd ACS National Meeting Chicago, IL, USA, August 26-30, 2001 (Paper)**.

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132. **D. S. Rawat**, K. Avasthi and D. S. Bhakuni, "Synthesis and Antiallergic Activity of Some Theophyllinyl Pyrozolo[3,4-d]Pyrimidies", Indian Society of Chemist and Biologist, Annual conference on chemistry, Biology and Healthcare, **Central Drug Research Institute, Lucknow, U. P. India, March 23-24, 1996 (Poster)**.
133. VII National Users' Workshop: Application of High Resolution NMR, Mass Spectrometry and Electronic Microscopy, **Regional Sophisticated Instrumentation Centre, Lucknow, U. P. India, January 4-6, 1995**
134. Global Challenges in Drug Development, **Central Drug Research Institute, Lucknow. U. P. India, December 16-18, 1994.**

PAST GROUP MEMBERS:

S. No	Name	Period of stay	Present position/address
1.	Dr. Mukesh C Joshi	August 2003 – November 2007	Ad-hoc Assistant Professor, Motilal Nehru College, University of Delhi
2.	Dr. Gopal S Bisht	November 2003 – November 2007	Assistant Professor Jaypee University, Solan
3.	Dr. Penny Joshi	October 2003 – March 2008	Assistant Professor, Kumaun University, Nainital
4.	Dr. Himanshu Aethaya	June 2004 – April 2009	Quality Control Officer Indian Oil Corporation, Panipat
5.	Dr. Ritu Mamgain	June 2004 – January 2009	PDF, IISER, Pune

6.	Dr. Mukul Sharma	February 2005 – September 2009	Scientist, Ifca Labs, Varodara
7.	Dr. Nitin Kumar	December 2007 – June 2011	Scientist, Fresenius Cabi Gurgaon
8.	Dr. Beena Negi	July 2008 – June 2012	Assistant Professor, Gargi College, DU
9.	Dr. Sunny Manohar	February 2009 – October 2012	Assistant Professor, DDU, University of Delhi
10.	Dr. Seema Joshi	March 2007- October 2012	DS Kothari Fellow, JNU, Delhi
11.	Dr. Rini Joshi	January 2010- November 2012	PDF, Thomas Jefferson University, USA
12.	Dr. Deepak Gupta	June 2009-June 2013	Ad hoc Assistant Professor Shradhanand College, University of Delhi
13.	Dr. Anuj Thakur	January 2011- January 2016	Assistant Professor, Amity University
14.	Dr U Chinna Rajesh	August 2011 – April 2016	PDF, Indiana University
15.	Dr Satya V Pavan	February 2013 – July 2016	Group Leader, Chromachemie Laboratory Private Limited, Bangalore
16.	Dr Mohit Tripathi	November 2011 – March 2017	Asst Manager, Evalueserve Pvt Ltd
17.	Dr P. Linga Reddy	February 2012- Till Date	RA, IIT Mumbai
18.	Dr Rohit Kholia	April 2013-Oct 2018	PDF, McGill University, Canada
19.	Dr Shiv Shyam	Feb 2014-Oct 2018	Mankind Pharma
20.	S. Kulangara Kandi,	June 2014 – Dec 2019	Evalueserve Pvt Ltd

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SUPERVISION OF DOCTORAL THESIS (UNDER PROGRESS)

- **Registered PhD students:** Srithi Rawat, Aparnan Bahuguna, Upasana Gulati, Gunjan Purohit, Manish Rawat, Gagandeep Sandhu.

RESEARCH ASSOCIATED/RESEARCH SCIENTIST:

- **Dr. Prija Poonan** (DS Kothari Fellow, 2014 – 2018)
- **Dr. Archana Gupta** (DST Women Scientist, 2014 – 2018)
- **Dr Praveen K Verma** (DS Kothari Fellow 2015 – 2016)
- **Dr Girijesh K Verma** (DS Kothari Fellow 2015 – 2019)
- **Dr Anita Kharakwal** (NPDF-DST, June 2017 – 2020)
- **Dr. K. Kranthi Raj** (2012 – 2013)
- **Dr Ram Singh** (*Current Address: Assistant Professor, Delhi Technological University, Delhi*).

SUPERVISION OF M.Phil/M. Pharm/M. Tech DESSERTATIONS:

- Nisha Agarwal; Sunny Manohar, Monika; Shamsheer K Kandi.