CURRICULAM VITAE

UPENDRA SHARMA, PhD
Senior Scientist
Chemical Technology Division
CSIR-Institute of Himalayan Bioresource Technology
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&
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PROFESSIONAL EXPERIENCE

Senior Scientist (1st September 2017 onwards) at Chemical Technology Division, CSIR-IHBT, Palampur (One-year **advance Promotion *i.e.* Merit Promotion** from Scientist to Senior Scientist)

Scientist (1st September 2014- 31st August 2017) at Chemical Technology Division, CSIR-IHBT, Palampur

Postdoctoral Fellow (14th March 2014- 22nd August) at KAIST, South Korea, worked on transition metal catalyzed remote C-H activation.

Young Scientist-DST Fast Track (24th May 2013-11th March 2014) at IIT Bombay, worked on development of catalytic processes for heterocycle synthesis through multiple C-H activation.

Research Assistant (6th Nov. 2012-22nd May 2013) at IIT Bombay, worked on stereoselective nitration and trifluoromethylation of olefins.

EDUCATION

2007 – 2012	**PhD** (**Organic Chemistry**) GNDU. Amritsar, Punjab / CSIR-IHBT, Palampur **Mentor**: Dr. Bikram Singh, Chief Scientist & HOD, NPC&PDD, CSIR-IHBT (***Submitted on 21st May, 2012 and defended on 26th Oct. 2012***) entitled "**Phytochemical Investigation of *Tinospora cordifolia, Asparagus racemosus* and Synthesis of Phthalimide Derivatives for Immunomodulatory Active Molecules**"
2005-2006	**Research Scholar** in Panjab University, Chandigarh
2003 - 2005	**M.Sc Chemistry,** DAV collage, Jalandhar, GNDU, Amritsar, 1st Class with 63 %
2002 - 2003	**B.Ed.**, Jammu University, Jammu, 1st Class with 67 %
1999 - 2002	**BSc**, University Govt. College Chowari, HPU, Shimla 1st Class 72%

SKILLS

- **Synthetic methodology development** (C-H activation/functionalization leading to value added molecules)
- **Isolation and structure elucidation of plant secondary metabolites** from Himalayan medicinal plants using modern spectroscopic techniques including NMR (1D & 2D), LC-MS, IR and UV-vis. Development of eco-friendly processing technology at pilot scale for bioactives of industrial importance.

- **Medicinal Chemistry:** Synthesis of New Heterocycles (Quinoline, Indole, Furan) Derivatives as Potential Therapeutic Agents

- **Chemical Profiling** using NMR (1D & 2D) and hyphenated chromatographic techniques such as UPLC-MS/MS and GC-MS

- **Analytical Chemistry** using UPLC, HPLC & GC for standardization of plant extracts through development of quantification method for marker compounds

AWARDS/HONOURS

- Member of Early Career Board of ***Science of Synthesis*** (2022-)
- One Year Advance Promotion *i.e.* Merit Promotion from Scientist to Senior Scientist
- Member of Early Career Advisory Board of ***Asian Journal of Organic Chemistry*** (2020-)
- Manjushree Pal Memorial Award for Best Oral Presentation from Ethanopharmacology Society of India, Kolkata (2017)
- Chaired a poster session in National Conference on Innovation in Bioprocess Technology (IBT-2019), CIAB, Mohali, Punjab, India on December 11-13, 2019.
- Chaired a poster session in 4th International Congress of the Society for Ethnopharmacology, India Healthcare in 21st century: Perspectives of Ethnopharmacology & Medicinal Plant Research, UKA Tassadia University, Bardoli, Surat, Gujrat on February 23-25, 2017.
- Thieme Chemistry Journal Award (2016)
- D S Kothari Postdoc Fellowship (2012)
- Fast Track Young Scientist project for three years (2012)
- Postdoc Fellowship KAIST, South Korea (2014)
- CSIR Senior Research Fellowship (2009)
- CSIR Junior Research Fellowship (2007)
- GATE (2007)
- CSIR-NET (2006)

MEMBERS OF PROFESSIONAL SOCIETY

Life member of Catalysis Society of India since 2021 (LM No. LM1068).

Life member of Analytical Society of Analytical Scientists since 2008 (LM No. 2008/38).

EDITORSHIP

1. Early Career Advisory Board member of *Science of Synthesis* (2022-)
2. Early Career Advisory Board member of *Asian Journal of Organic Chemistry* (2020-)

RESOURCE PERSON FOR JOURNALS

Synthetic Chemistry	***Natural Product Chemistry***
Nature Chemistry	*Journal of Natural Products*

ACS Catalysis
Organic Letters
Chemical Communication
Green Chemistry
Advance Synthesis & Catalysis
Organic Chemistry Frontier
The Journal of Organic Chemistry
ACS Omega
New Journal of Chemistry
Chemistry Select
Catalysis Letter
Journal of Heterocyclic Chemistry
Organic Chemistry-An Indian Journal
Polyhedron
Synthesis
Journal of Ethanopharamcology
Natural Product Reports
Natural Product Communications
Studies in Natural Product Chemistry
Phytochemical Analysis
Separation Science and Technology
Biomedicine & Pharmacotherapy
Toxicology and Environmental Health Sciences
Agriculture Water Management
Journal of Functional Foods
SN Applied Science
Journal of Functional Food and Analysis
Chinese Journal of Natural Medicines
Chemico-Biological Interaction

INSTITUTIONAL RESPONSIBILITIES

- Member, Technical and Purchase Committee (2018 onwords)
- Member, Students selection committee in Chemical Sciences, CSIR-IHBT
- DAC Member, Ph.D. students enrolled in Academy of Scientific and Innovative Research (AcSIR), Ghaziabad-201002, India/CSIR-IHBT, Palampur

SCIENTIFIC PROGRAMME ORGANIZED

- Coordinated "**One-day visit/training programme**" in CSIR-IHBT on 30.03.2022 under SERB-Scientific Social Responsibility Programme in a SERB Funded Project (File No. CRG/2021/000878).
- Co-Coordinator and acted as resource person in a Capacity Building Programme for Ph.D. students and Faculty from MDU, Rohtak on "**Bioprospecting Natural Products for Human Health and Socio-economic Development**" under UGC-STRIDE Programme at CSIR-IHBT, Palampur March 07-11, 2022.

PHD THESIS EXAMINER

- Ph.D. Thesis Evaluated till date: **10** Viva Exam Taken: **5**

• PROJECTS HANDLED

	Project Title	Funding Agency	Duration	Role
	In Progress: 10			
20	Chemometrics as Inventive Tool for Quality Assessment of Medicinal Plants: A Case Study with Aconitum heterophyllum (Nation Priority Plant).	Science and Engineering Research Board (SERB) File No.: CRG/2021/000878	**2021-2024**	**Principal Investigator**
19	Value Addition and Product Diversification in Tea.	Department of Biotechnology (NER-BPMC)	**2022-2025**	**Co-Principal Investigator**

		File No. BT/PR45264/NER/95/1920/2022		
18	Process optimization and up-scale production of lignocellulosic extremozymes from Himalayan microbes for biomass valorization/depolymerization.	Department of Biotechnology (NER-BPMC) File No. BT/PR45190/NER/95/1902/2022	**2022-2025**	**Co-Principal Investigator**
17	Bio-prospecting and product development from *Curcuma longa* (turmeric) in Uttarakhand. *In collaboration: Graphic Era (Deemed to be University), Utterakhand.*	R&D; Sponsored by Uttarakhand State Council for Science and Technology, DST, Uttarakhand	**2021-2022**	**Co-Principal Investigator**
16	Exploration of Himalayan Plants for Novel Antimalarial Agents: Characterization of potential molecules (Phase-II).	CSIR/Agri Nutri Biotech Mission	**2020-2023**	**Principal Investigator**
15	Next generation genomics for genetaic improvement of *Stevia rebaudiana*.	CSIR/Agri Nutri Biotech Mission	**2020-2023**	**Co-Principal Investigator**
14	Development of the natural glycoside (stevioside/rebaudioside A) based drug delivery nano-probe-carrier for cancer therapeutics.	CSIR-EMR	**2020-2023**	**Co-Principal Investigator**
13	CSIR-Aroma Mission – Phase II (HCP0007)	CSIR/Aroma Mission	**2020-2023**	**Co-Principal Investigator**
12	Development of nutraceutical formulation for kidney health.	CSIR/ Immunity Mission	**2021-2023**	**Co-Principal Investigator**
11	Development of Immunomodulatory Products based on *Carum carvi* and *Bunium persicum.*	CSIR/ Immunity Mission	**2021-2023**	**Co-Principal Investigator**
Completed: 10				
10	Evaluating SARS-CoV-2 Main protease (Mpro) inhibitors identified from the library of FDA approved drugs and novel CSIR molecules.	CSIR-Healthcare Mission: Drugs and APIs for COVID-19	**2020-2021**	**Principal Investigator**
9	Transition Metal Catalyzed Simultaneous Distant C-H Activation and Hetero-atom Transfer: Direct Synthesis of Bioactive Derivatives of Heterocyclic Compounds.	SERB-DST (EMR/2014/001023)	**2015-2018**	**Principal Investigator**
8	Exploration of Himalayan Plants for Novel Antimalarial Agents: Characterization of potential molecules.	CSIR/Agri Nutri Biotech Mission	**2019-2020**	**Principal Investigator**
7	Phytopharmaceutical development from as *Cissampelos pareira* per regulatory guidelines of AYUSH.	CSIR/Phytopharma Mission	**2017-2020**	**Principal Investigator**
	Technology packages for production of GMP grade medicinal plant extracts of *Ginkgo biloba.*	CSIR/Phytopharma Mission	**2017-2020**	**Principal Investigator**
6	High throughout genotyping to expedite the genetic	DST	**2018-2021**	**Co-Principal Investigator**

	characterization and dissection of important agronomic traits of tea.			
5	Phytochemical investigation of selected high value rare, endangered and threatened (RET) medicinal Plants.	CSIR/Phytopharma Mission	**2017-2020**	**Co-Principal Investigator**
4	Nutraceutical formulation for boosting bone and cartilage health.	CSIR/Neutraceutical Mission	**2018-2020**	**Co-Principal Investigator**
3	A kaempferol-enriched nutraceutical formulation for ageing bone: to concurrently stop bone loss and restoring lost bone (CSIR-CDRI, CSIR-IHBT).	CSIR/Neutraceutical Mission	**2018-2020**	**Co-Principal Investigator**
2	Identification of improved clone(s) of *Stevia rebaudiana* (Bertoni).	CSIR/Agri Nutri BiotechMission	**2018-2020**	**Co-Principal Investigator**
1	Development of process for converting raw cellulosic biomass into textile fiber and nanocellulose.	CSIR/Agri Nutri BiotechMission	**2018-2020**	**Co-Principal Investigator**

DISSERTATIONS (BEING) SUPERVISED

(a) **Postdoc: 06 [Completed: 03; Current: 03]**

(b) **Ph.D.: 24 [Awarded: 8; Current: 16]**

Pursuing	Awarded
1. Mr. Devesh Chandra 2. Ms. Diksha Parmar 3. Ms. Surekha Kumari 4. Mr. Sumit 5. Ms. Manisha 6. Mr. Anmol 7. Ms. Ankita Thakur 8. Mr. Rohit Kumar 9. Mr. Shiv Kumar Gupta 10. Mr. Prithavi Pal Singh 11. Er. Mohit Sharma 12. Ms. Shivani Puri 13. Ms. Shivani 14. Mr. Raman Singh 15. Ms. Mahek Sharma 16. Mr. Parteek Singh Bora	1. Dr. Shruti Sharma completed thesis entitled "**Exploration of *Polygonatum verticillatum* for its chemistry and therapeutic potential**" on 21st September 2022. 2. Dr. Patil Shiv Prasad Suresh completed thesis entitled "**Phytochemical and Pharmacological Investigation of *Trillium goavnianum* Wall. Ex D.Don for Steroidal Saponins**" on 15th February 2022. 3. Dr. Ankit Kumar Dhiman completed thesis entitled "**Development of Methodologies for the Synthesis of N-Heterocyclic Derivatives through C-H Bond Functionalization**" on 23rd December 2021. 4. Dr. Inder Kumar completed thesis entitled "**Development of Photo-catalytic Methodologies for the C-C and C-Heteroatom Bond Formation**" on 15th July 2021. 5. Dr. Rakesh Kumar completed thesis entitled "**Synthesis and Derivatization of *N*-Heterocyclic Compounds through C-H Bond Functionalization**" on 5th February 2020. 6. Dr. Ritika Sharma completed thesis entitled "**Synthesis of Quinoline Derivatives *via* Catalytic Remote C-H Activation**" on 26th July, 2019. 7. Dr. Deepali Katoch completed Thesis entitled "**Phytochemical and pharmacological investigation of *Zephyranthes grandiflora* and *Narcissus tazetta* for Amaryllidaceae alkaloids and their synthetic modification**" 19th July 2019. 8. Dr. Vinod Bhatt completed thesis entitled "**Phytochemical and Synergy-Directed Biological Studies of *Zanthoxylum* Species"** on 15th Februrary 2018.

(c) **Post graduation training/thesis: 20 [National: 19 International: 1]**

Awarded
International Student Under CSIR-TWAS Fellowship 1. **Mrs. Adenike Evelyn ADENIYI**, University of Ibadan, Nigeria completed six-month TWAS-CSIR fellowship research on thesis entitled "**Suitability of Seed Oil of *Hildegardia barteri* (Mast. Kosterm) for Production of Selected Bio-Products"** in 24th January-July, 2018. **National** 2. **Mr. Sahil Rana, Chandigarh University**, completed one and half months training entitled "**Phytochemical Investigation of Plants**" in June-August, 2022. 3. **Ms. Nivedita Thakur, GNDU, Amritsar**, completed five months training entitled "**Synthesis and Characterisation of Isoquinoline Derivatives**" in Feb-July, 2022. 4. **Ms. Anjali, Chandigarh University**, completed two months training entitled "**Basics in natural product chemistry**" under SERB-DST funded project in Jan-March, 2022. 5. **Mr. Arpit Mahajan, Guru Nanak Dev University**, completed four months training entitled "**Protection of amino acids using phthalic anhydride**" in Jan-April, 2020. 6. **Mr. Ayush Kumar**, DAV University, Jalandhar (Pb) completed one-month training on basic lab practices in organic synthesis in January, 2020. 7. **Dr. Naresh Kumar**, IIT, Indore (MP) completed six-month training on synthesis of heterocyclic molecules in July-December, 2019. 8. **Miss. Pooja Babbar** SRM University, Delhi- NCR, completed one and half month training entitled "**Study on Isolation and Characterization of Secondary Metabolites from Medicinal Plants**" in July-December, 2019. 9. **Ms. Ankita Rana**, Chandigarh University, Gharuan, Pb, completed one and half month training entitled "**Study towards Oxidation of Quinoline Derivatives**" in June-August, 2019. 10. **Mr. Anurag Shukla**, Amity University, Noida (UP) completed one and half month training entitled "**Extraction, qualitative and quantitative analysis of *Camellia sinensis* leaves**" May-July, 2019. 11. **Mr. Vikrant**, Shoolini University, Solan, HP, completed two-month training entitled "**Synthesis of Quinoline *N*-oxide and maleimides**" in June-August, 2018. 12. **Ms. Vivekshu**, Chandigarh University, Chandigarh, completed one-month training entitled "**Analytical Techniques used in Phytochemical investigations**" in May-June, 2018. 13. **Ms. Alka Devi**, Ahilya Vishwavidyalaya, Indore (M.P.) completed six-month training entitled "**Phytochemical and In-silico biological studies of *Cissampelos pareira***" in January-June, 2018. 14. **Ms. Jyoti**, Amity University Gurgoan, Haryana, completed two-month training entitled "**Extraction, Fractionation and Isolation of Secondary Metabolites from *Cissampelos pareira* Roots**" in March-April, 2018. 15. **Mr. Sachin**, Amity University Gurgoan, Haryana, completed two-month training entitled "**Functionalization of Quinoline and their characterization**" in March-April, 2018. 16. **Mr. Saurabh Kumar**, SHUATS, Allahabad, completed one-month training entitled "**Fractionation and Isolation of Secondary metabolites from *Cissampelos pareira***" in July, 2017. 17. **Mr. Amit**, Amity University Gurgoan, Haryana, completed one-month training entitled "**Phytochemical Investigation of *Cissampelos pareira***" in July, 2017. 18. **Ms. Reetu Bala**, SGGS College, Punjab University, Chandigarh, completed one-month training entitled "**Lewis Acid Catalyzed *N*-alkylation of 1,2,3,4-Tetrahydroisoquinolines with Acrylates**" in July, 2017. 19. **Mr. Sachin**, Amity University Gurgoan, Haryana, completed one-month training entitled "**Synthesis of Quinoline *N*-Oxides and Quinoline Ylides**" in July, 2017.

PUBLICATIONS

Total: **139** Citation: **>3930** h-index: **32** i-10 index: **86**

After Independent Research Lab: **93**

Book Chapter: **9** Patent: **3** (Granted: 02; Filed: 01)

Invited/Oral Presentations: **21** Paper presented in conferences: **33**

S. No.	Name of all the authors	Title of the paper	Name of the journal, year, volume, page
139	Shiv Shankar Gupta, Diksha Parmar, Rohit Kumar, Devesh Chandra, and Upendra Sharma*	Construction of *N*-Heterocycles through Group 9 (Co, Rh, Ir) Metal-Catalyzed C-H Activation: Utilizing Alkynes and Olefins as Coupling Partners.	*Catalysis Reviews: Science and Engineering*, 2022, doi.org/10.1080/01614940.2022.2097640.
138	Chirag Kulkarni, Shivani Sharma, Prateek Singh Bora, Saurabh Verma, Swati Rajput, Konica Porwal, Srikanta K. Rath, Jiaur R. Gayen, Upendra Sharma, Naibedya Chattopadhyay*	A novel extraction method enhanced the osteogenic and anti-osteoporosis effect of tea extract without any hepatotoxicity in ovariectomized rats.	*Frontiers in Endocrinology,* 2022, doi: 10.3389/fendo.2022.951800.
137	Diksha Parmar, Ankit Kumar Dhiman, Rohit Kumar, Akhilesh K. Sharma* and Upendra Sharma*	Cp*Co(III)-Catalyzed Selective C8-Olefination and Oxyarylation of Quinoline *N*-Oxides with Terminal Alkynes.	*The Journal of Organic Chemistry*, 2022, *87*, 9069-9087.
136	Patil Shivprasad Suresh, Prithvi Pal Singh, Anmol, Smita Kapoor Yogendra S. Padwad and Upendra Sharma*	Lactic acid-based Deep Eutectic Solvent: An Efficient Green Media for the Selective Extraction of Steroidal Saponins from *Trillium govanianum.*	*Separation and Purification Technology,* 2022, *294*, 121105.
135	Ajay Kumar, Sandeep Kaur, Sukhvinder Dhiman, Prithvi Pal Singh, Gaurav Bhatia, Sharad Thakur, Hardeep Singh Tuli, Upendra Sharma, Subodh Kumar, Abdulmajeed G. Almutary,*, Abdullah M. Alnuqaydan, Arif Hussain, Shafiul Haque, Kuldeep Dhama, Satwinderjeet Kaur*	Targeting Akt/NF-κB/p53 pathway and apoptosis inducing potential of 1,2-benzenedicarboxylic acid,bis (2-methyl propyl) ester isolated from *Onosma bracteata* Wall. against human osteosarcoma (MG-63) cells.	*Molecules,* 2022, *27*, 3478.
134	Madiha Haider, Vivek Anand, M. Ghalib Enayathullah, Yash Parekh, Sushma Ram, Surekha Kumari, Anmol, Gayatri Panda, Manjari Shukla, Dhwani Dholakia, Arjun Ray, Sudipta Bhattacharyya, Upendra Sharma, Kiran Kumar	Anti-SARS-CoV-2 potential of *Cissampelos pareira* L. identified by Connectivity map-based analysis and *in vitro* studies.	*BMC Complementary Medicine and Therapies,* 2022, *22,* 114.

	Bokara, Bhavna Prasher* and Mitali Mukerji*		
133	Ankita Thakur, Manisha, Inder Kumar, and Upendra Sharma*	Visible Light Induced Functionalization of C-H Bonds: Opening of New Avenues in Organic Synthesis.	*Asian Journal of Organic Chemistry,* 2022, *11*, e202100804.
132	Surekha Kumari, Shudh Kirti Dolma, Anmol, Upendra Sharma,* and S.G. Eswara Reddy*	Insecticidal activity of extracts, fractions and pure molecules of *Cissampelos pareira* Linnaeus against aphid, *Aphis craccivora* Koch.	*Molecules,* 2022, *27*, 633.
131	Anmol, Surekha Kumari, Raman Singh, Gaurav Aggarwal, Prakhar Agrawal, Dinkar Sahal,* and Upendra Sharma*	Antiplasmodial diterpenoid alkaloid from *Aconitum heterophyllum* Wall. ex Royle: Isolation, characterization, and UHPLC-DAD based quantification.	*Journal of Ethanopharmacology,* 2022, *287*, 114931.
130	Prithvi Pal Singh, Patil Shivprasad Suresh, Prateek Singh Bora, Vinod Bhatt, and Upendra Sharma*	Govanoside B, A New Steroidal Saponin from Rhizomes of *Trillium govanianum.*	*Natural Product Research,* 2022, *36*, 37-45.
129	Rohit Kumar, Devesh Chandra, and Upendra Sharma*	Pd-Catalyzed Atropselective C-H Olefination Promoted by a Transient Directing Group.	*Advance Synthesis & Catalysis*, 2022, *364*, 897-908.
128	Devesh Chandra, Manisha, and Upendra Sharma*	Recent Advances in the High-Valent Cobalt-Catalyzed C-H Functionalization of N-Heterocycles.	*The Chemical Records*, 2022, e202100271.
127	Madhu Thapliyal, Sachin Panwar, Deepak Rana, Manu Pant, Prabhakar Semwal, Upendra Sharma, Suktilang Majaw, Vinay Nautiyal, Sanjay Kumar, Rajendra Dobhal and Ashish Thapliyal*	Biochemical Analysis of Curcumin Content of Turmeric (*Curcuma Longa*) from Himalayan Region of Uttarakhand and Its Economic Potential.	*Biochem. Cell. Arch.* 2022, *22*, 1509-1514.
126	Devesh Chandra, Nikunj Kumar, Sumit, Diksha Parmar, Puneet Gupta,* and Upendra Sharma* ***Highlighted on Front Cover Page***, 2021, *57*, 11567-11568.	Co(III)-catalysed regioselective linear C(8)-H olefination of isoquinolone with terminal aromatic and aliphatic alkynes.	*Chemical Communications,* 2021, 57, 11613-11616.
125	Shiv Shankar Gupta, Manisha, Rakesh Kumar, Ankit Kumar Dhiman, and Upendra Sharma*	Predictable Site-Selective Functionalization: Promoter Group Assisted para-Halogenation of N-Substituted (Hetero)Aromatics under Metal-Free Condition.	*Organic & Biomolecular Chemistry*, 2021, *19*, 9675-9687.

124	Sumit, Devesh Chandra, Ankita Thakur, Ankit Kumar Dhiman, and Upendra Sharma*	Cp*Rh(III)-Catalyzed Regioselective C(sp3)-H Electrophilic Trifluoromethylthiolation of 8-Methylquinolines.	*The Journal of Organic Chemistry*, 2021, 86, 13754-13761.
123	Manisha, Shiv Shankar Gupta, Ankit Kumar Dhiman, and Upendra Sharma*	Rh(III)-Catalyzed Selective C7 Halogenation of Indolines.	*European Journal of Organic Chemistry*, 2021, *2021*, 5443-5448.
122	Ankita Thakur, Ankit Kumar Dhiman, Sumit, Rakesh Kumar, and Upendra Sharma*	Rh(III)-Catalyzed Regioselective C8-Alkylation of Quinoline *N*-Oxides with Maleimides and Acrylates.	*The Journal of Organic Chemistry*, 2021, *86*, 6612-6621.
121	Inder Kumar, Rakesh Kumar, Shiv Shankar Gupta, and Upendra Sharma*	C70 Fullerene Catalyzed Photo-induced Aerobic Oxidation of Benzylamines to Imines and Aldehydes.	*The Journal of Organic Chemistry*, 2021, *86*, 6449-6457.
120	Inder Kumar, Ankita Thakur, Manisha and Upendra Sharma *	α-Oxygenation of *N*-Aryl/Alky Heterocyclic Compounds via Ruthenium-Photocatalysis.	*Reaction Chemistry & Engineering*, 2021, 6, 2087-2091.
119	Ankit Kumar Dhiman, Rohit Kumar and Upendra Sharma*	Catalyst and Additive-Free Synthesis of Fluoroalkoxyquinolines.	*Synthesis*, 2021, *53*, 4124-4130.
118	Sumit, Devesh Chandra, and Upendra Sharma*	Merging Kinetic Resolution with C-H Activation**:** An Efficient Approach for Enantioselective Synthesis.	*Organic & Biomolecular Chemistry,* 2021, *19*, 4014-4026.
117	Patil Shivprasad Suresh, Krishan Gopal Thakur,* and Upendra Sharma*	Molecular Docking and Dynamic Simulation Approach to Decipher Steroidal Sapogenins (Genus *Trillium*) Derived Agonists for Glucocorticoid Receptor.	*Journal of Biomolecular Structure and Dynamics,* 2021, DOI: 10.1080/07391102.2021.2003864.
116	Shivani Puri, Dinkar Sahal*, Upendra Sharma,*	A Conversation Between Hyphenated Spectroscopic Techniques and Phytometabolites from Medicinal Plants.	*Analytical Science Advance*, 2021, *2*, 579-593.
115	Madiha Haider, Dhwani Dholakia, Aleksha Panwar, Parth Garg, Atish Gheware, Dayanidhi Singh, Khush boo Singhal, Shaunak A Burse, Surekha Kumari, Anmol, Arjun Ray , Guruprasad R. Medigeshi, Upendra Sharma, Bhavana Prasher* and Mitali Mukerji*	Transcriptome Analysis and Connectivity Mapping of *Cissampelos pareira* L. Provides Molecular Links of ESR1 Modulation to Viral Inhibition.	*Scientific Reports*, 2021, 20095.

114	Patil Shivprasad Suresh, Prithvi Pal Singh, Anamika Sharma, Yogendra S Padwad,* and Upendra Sharma*	Steroidal Saponins of *Trillium govanianum*: Quality Control, Pharmacokinetic Analysis, and Anti-inflammatory Activity.	*Biocatalysis and Agricultural Biotechnology*, 2021, 35, 102071.
113	Shiv Shankar Gupta, Ashwani Kumar, Ravi Shankar,* Upendra Sharma*	*In Silico* Approach for Identifying Natural Lead Molecules Against SARS-COV-2.	*Journal of Molecular Graphics and Modelling,* 2021, *106*, 107916.
112	Surekha Kumari, Anmol, Vinod Bhatt, Patil Shivprasad Suresh, and Upendra Sharma*	*Cissampelos pareira* L.: A Review of its Traditional Uses, Phytochemistry, and Pharmacology.	*Journal of Ethanopharmacology,* 2021, *274*, 113850.
111	Shudh Kirti Dolma, Patil Shivprasad Suresh, Prithvi Pal Singh, Upendra Sharma,* and S.G. Eswara Reddy*	Insecticidal Activity Of The Extract, Fractions, and Pure Steroidal Saponins of *Trillium govanianum* Wall. ex D.Don for the Control of Diamondback moth (*Plutella xylostella* L.) and Aphid (*Aphis craccivora* Koch)	*Pest Management Science*, 2021, *77*, 956-962.
110	Patil Shivprasad Suresh, Prithvi Pal Singh, Yogendra S. Padwad, Upendra Sharma* *(One of the Most Read Article)*	Steroidal saponins from *Trillium govanianum* as α-Amylase, α-Glucosidase, and Dipeptidyl Peptidase IV Inhibitory Agents.	*Journal of Pharmacy and Pharmacology,* 2021, *73*, 487-495.
109	Shivani Puri, Sarthak Sharma, Avnesh Kumari, Mohit Sharma* Upendra Sharmaa* and Sanjay Kumar*	Extraction Of Lignocellulosic Constituents From Cow Dung: Preparation and Characterization of Nanocellulose.	*Biomass Conversion and Biorefinery,* 2021, doi.org/10.1007/s13399-020-01119-9.
108	Devesh Chandra, Ankit Kumar Dhiman, Diksha Parmar and Upendra Sharma*	Alkylation, Alkenylation, and Alkynylation of Heterocyclic Compounds through Group 9 (Co, Rh, Ir) Metal-Catalyzed C-H Activation.	*Catalysis Reviews: Science and Engineering*, 2020, doi.org/10.1080/01614940.2020.1839849.
107	Inder Kumar, Shiv Shankar Gupta, Rakesh Kumar, Rohit Kumar, Prakhar Agrawal, Dinkar Sahal and Upendra Sharma*	Photocatalytic Unsymmetrical Coupling of 2-Substituted Quinolines: Synthesis and Evaluation of Antiplasmodial Potential of *β*-norbenzomorphan Framework.	*ACS Sustainable Chemistry & Engineering,* 2020, *8*, 12902-12910.
106	Diksha Parmar, Rohit Kumar, Rakesh Kumar and Upendra Sharma* (***One of the Most Read Article***)	Ru(II)-Catalyzed Chemoselective C(sp^3)-H Monoarylation of 8-Methyl Quinolines with Arylboronic Acids.	*The Journal of Organic Chemistry*, 2020, *85*, 11844-11855.
105	Vinod Bhatt, Surekha Kumari, Pooja Upadhyay, Prakhar Agrawal, Anmol, Dinkar Sahal*	Chemical Profiling and Quantification of Potential Active Constituents Responsible	*Journal of Ethanopharmacology,* 2020, *262*, 113185.

	Upendra Sharma*	for The Antiplasmodial Activity of *Cissampelos pareira.*	
104	Dinkar Sahal* and Upendra Sharma (***Expert Commentry***)	*Cissampelos pareira's* Tale from the Benevolent World of Medicinal Plants.	*Research Journal of Plant Pathology,* 2020, *3*, 1-2.
103	Ankit K. Dhiman, Ankita Thakur, Rakesh Kumar and Upendra Sharma* ***(This article also appears in:*** *Hot Topic: C-H Activation****)*** **https://onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)2193-5815.hottopic-c-h-activation)**	Recent Advances in Rhodium-Catalyzed Selective C-H Bond Functionalization of Quinolines	*Asian Journal of Organic Chemistry,* 2020, *9*, 1502-1518.
102	Ankit Kumar Dhiman, Ankita Thakur, Inder Kumar, Rakesh Kumar and Upendra Sharma*	Co(III)-Catalyzed C-H Amidation of Nitrogen Containing Heterocycles with Dioxazolones under Mild Condition.	*The Journal of Organic Chemistry*, 2020, *85*, 9244-9254.
101	Rakesh Kumar, Diksha Parmar, Shiv Shankar Gupta, Devesh Chandra, Ankit Kumar Dhiman and Upendra Sharma* ***(Published as Hot Paper)***	Cp*Rh(III)-Catalyzed Sterically Controlled C(sp^3)-H Selective Mono- and Diarylation of 8-Methylquinolines with Organoborons.	*Chemistry-A European Journal*, 2020, *26*, 4396-4402.
100	Prithvi Pal Singh, Prateek Singh Bora, Patil Shivprasad Suresh, Vinod Bhatt, and Upendra Sharma*	Qualitative and Quantitative Determination of Steroidal Saponins in *Trillium govanianum* by UHPLC-QTOF-MS/MS and UHPLC-ELSD.	*Phytochemical Analysis,* 2020, *31*, 861-873.
99	Shiv Shankar Gupta, Surekha Kumari, Inder Kumar and Upendra Sharma* (***Invited Article***)	Eco-friendly and Sustainable Synthetic Approaches for Biologically Significant Fused *N*-Heterocycles.	*Chemistry of Heterocyclic Compounds*, 2020, *56*, 433-444.
98	Rakesh Kumar, Ritika Sharma, Rohit Kumar and Upendra Sharma*	Cp*Rh(III)-Catalysed Regioselective C(sp^3)-H Methylation of 8-Methylquinolines with Organoborons.	*Organic Letters*, 2020, *22*, 305-309.
97	Rohit Kumar, Rakesh Kumar, Diksha Parmar, Shiv Shankar Gupta and Upendra Sharma*	Ru(II)/ Rh(III)-Catalyzed C(sp^3)-C(sp^3) Bond Formation through C(sp^3)-H Activation: Selective Linear Alkylation of 8-Methylquinolines and Ketoximes with Olefins.	*The Journal of Organic Chemistry*, 2020, *85*, 1181-1192.
96	Shiv Shankar Gupta, Rakesh Kumar and Upendra Sharma*	Regioselective Arylation of Quinoline *N*-Oxides (C8), Indolines (C7) and *N-tert*-Butylbenzamide with Arylboronic Acids.	*ACS Omega*, 2020, *5*, 904-913.

95	Deepali Katoch*, Dharmesh Kumar, Yogendra S Padwad, Bikram Singh,* Upendra Sharma*	Narciclasine-4-*O*-*β*-*D*-xylopyranoside, a new narciclasine glycoside from *Zephyranthes minuta.*	*Natural Product Research,* 2020, *34*, 233-240.
94	Sandeep Kaur, Ajay Kumar, Sharad Thakur, Kapil Kumar, Ritika Sharma, Anket Sharma, Prabhpreet Singh, Upendra Sharma, Subodh Kumar, Marco Landi *, Marián Brestič, Satwinderjeet Kaur *	Antioxidant, Antiproliferative and Apoptosis-Inducing Efficacy of Fractions from *Cassia fistula* L. Leaves.	*Antioxidants,* 2020, *9,* 173.
93	Deepali Katoch*, Dharmesh Kumar, Yogendra S Padwad, Bikram Singh,* and Upendra Sharma*	Pseudolycorine *N*-Oxide, A New *N*-Oxide from *Narcissus tazetta.*	*Natural Product Research,* 2020, *34*, 2051-2058.
92	Deepali Katoch,* and Upendra Sharma*	Simultaneous Quantification and Identification of Amaryllidaceae Alkaloids in *Narcissus tazetta* by Ultra Performance Liquid Chromatography-Diode Array Detector-Electrospray Ionisation Tandem Mass Spectrometry.	*Journal of Pharmaceutical and Biomedical Analysis,* 2019, *175*, 112750.
91	Ankit Kumar Dhiman, Shiv Shankar Gupta, Ritika Sharma, Rakesh Kumar, and Upendra Sharma* (***Part of Special Issue:*** *C-H Bond Functionalization*)	Rh(III)-Catalyzed C(8)-H Activation of Quinoline *N*-oxides: Regioselective C-Br and C-N Bond Formation.	*The Journal of Organic Chemistry*, 2019, *84*, 12871-12880.
90	Ankit Kumar Dhiman, Devesh Chandra, Rakesh Kumar and Upendra Sharma*	Catalyst-Free Synthesis of 2-Anilinoquinolines and 3-Hydroxyquinolines *via* Three-Component Reaction of Quinoline *N*-oxides, Aryldiazonium salts and Acetonitrile.	*The Journal of Organic Chemistry*, 2019, *84*, 6962-6969.
89	Devesh Chandra, Ankit Kumar Dhiman, Rakesh Kumar, Upendra Sharma*	Microwave-Assisted Metal-Free Rapid Synthesis of C4-Arylated Quinolines *via* Povarov Type Multicomponent Reaction.	*European Journal of Organic Chemistry,* 2019, 2019, 2753-2758.
88	Meenakshi Thakur, Shruti Sharma, Upendra Sharma, Rakesh Kumar	Study on Effect Of Pruning Interval on Growth, Yield and Quality of Scented Rose (*Rosa damascena* Mill.) Varieties Under Acidic Conditions of Western Himalayas.	*Journal of Applied Research on Medicinal and Aromatic Plants,* 2019, *13*, 100202
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86	Rakesh Kumar, Rohit Kumar, Devesh Chandra, Upendra Sharma*	Cp*Co(III)-Catalyzed Alkylation of Primary and Secondary C(sp^3)-H Bonds of 8-Alkylquinolines with Maleimides.	*The Journal of Organic Chemistry*, 2019, *84*, 1542-1552.
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6	Upendra Sharma, Pamita Bhandari, Neeraj Kumar, Bikram Singh	Simultaneous Determination of Ten Sugars in *Tinospora cordifolia* by Ultrasonic Assisted Extraction and HPLC-ELSD Method.	*Chromatographia*, 2010, *71*, 633.
5	Upendra Sharma, Manju Bala, Praveen K Verma, Geetanjli. Rampal, Neeraj Kumar, Bikram	Antimutagenic Extract from *Tinospora cordifolia* and its Chemical Composition.	*Journal of Medicinal Plants Research*, 2010, *4*, 2488.

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BOOK CHAPTER

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2. A. K. Dhiman, and U. Sharma.* Rhodium-Catalysed C-H Halogenation. Maiti D. (eds.) Handbook of CH-Functionalization (CHF), *Wiley*, 2021, accepted.
3. Manisha, and U. Sharma.* Rhodium and Iridium-Catalyzed Benzylic C-H Functionalization. Maiti D. (eds.) Handbook of CH-Functionalization (CHF), *Wiley*, 2021, accepted.
4. D. Parmar, and U. Sharma.* Manganese-catalyzed Regioselective C-H Allylation, Allenylation, Halogenation, Dehydrogenative Annulation, and Amidation. Maiti D. (eds.) Handbook of CH-Functionalization (CHF), 2021, *Wiley*, accepted.
5. P. S. Suresh, S. S. Gupta, Anmol, and U. Sharma.* Insight into Coronaviruses and Natural Products-based Approach for COVID-19 Treatment. *Studies in Natural Product Chemistry (Elsevier)*, 2022, Vo. 74, Chapter 12; pp 443-469; doi: 10.1016/B978-0-323-91099-6.00005-0 .
6. P. S. Bora, P. S. Suresh, S. Kumari, Anmol, S. Puri, and U. Sharma.* Integrated Approach for the Quality Assurance of Commercially Important Himalayan Medicinal Plants. In: Ekiert H.M., Ramawat K.G., Arora J. (eds) Medicinal Plants. Sustainable Development and Biodiversity, vol 28. Springer, Cham. https://doi.org/10.1007/978-3-030-74779-4_22
7. P. S. Suresh, V. Bhatt, P. P. Singh, and U. Sharma.* Steroidal Sapogenins from Genus Trillium: Chemistry, Synthesis, and Opportunities in Neuro-active Steroids Designing. *Studies in Natural Product Chemistry (Elsevier)*, 2021, Vo. 68, Chapter 3; pp 67-95; doi.org/10.1016/B978-0-12-819485-0.00004-9.
8. U. Sharma, A. Modak, S. Maity, A. Maji and D. Maiti. Direct Arylation *via* C-H activation. Thomas Colacot eds., *Introduction to New Trends in Cross-Coupling: Theory and Applications (RSC)*, 2014.
9. M. Chandel, U. Sharma, N. Kumar, B. Singh and S. Kaur. In Vitro Studies on the Antioxidant/Antigenotoxic Potential of Aqueous Fraction from *Anthocephalus cadamba* Bark. P.R. Sudhakaran *et al.* (eds.), *Perspectives in Cancer Prevention-Translational Cancer Research (Springer)*, 2013, pp 61-72.

PATENT

Filed: 01

1. M. Sharma, S. Thakur, U. Sharma and S. Kumar.
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1. B. Singh, S. Chattergi, N. Kumar and U. Sharma.
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2. D. Maiti, U. Sharma, N. Tagoti.
Palladium-Catalyzed Synthesis of Benzofurans and Coumarins from Phenols and Olefins. Indian Patent No.: 299110
Date of Grant: 13-07-2018.

PAPER PRESENTED IN CONFERENCE

Invited/Oral Presentations (National/International)

2022

1. "**Transition Metal Catalyzed Functionalization of *N*-Containing Heterocycles via C-H Activation"** in Webcheminar on Innovation in Organic Synthesis in India – presented by SynOpen and SoS, 14 July 2022.

2. "**Herbal Material: Source of Bioactive Molecules and Issue of Contamination"** in two Week Intensive Course on "Recent Trends and Challenges in Regulation and Standardization of Herbal Drugs and Formulations" organised by NIPER-SAS Nagar, 08-17 June 2022.

3. "**Structure Elucidation of Natural Products Isolated from Industrially Relevant Medicinal Plants"** in Chemical Science Symposium at IIT, Mandi, Himachal Pradesh, India on 23-24 May, 2022.

4. "**Traditional Knowledge-Driven Discovery of Bioactive Molecules from Medicinal Plants**" in BioX Annual Conference by IIT, Mandi, Himachal Pradesh, India on 13-14 May, 2022.

5. "**Systematic Study for Discovering Bioactive Natural Products from Medicinal Plants**" in Webinar on Role of Natural Products in Drug Discovery and Development by NIPER, Ahmedabad, Gujrat, India on 29th April, 2022.

2021

6. "**Medicinal Plant-Traditional Knowledge-Bioactive Molecules**" in Webinar on Socioeconomic Improvement through cultivation of medicinal and aromatic plants under covid-19 Pandemic organized by Department of Chemistry, Soban Singh Jeena University, Almora, Uttarakhand, India on 8th July, 2021.
7. "**C-H Activation: A Sustainable Approach for the Direct Functionalization of Quinolines**" in Virtual International Conference on Physical Sciences (ICPS – 2021) Jointly organized by Department of Physics, Chemistry and Applied Mathematics & Humanities, SVNIT, Gujrat, India on 5-6 February, 2021.

2020

8. **"Utilizing Plant Traditional Knowledge for the Discovery of Bioactives"** in Young Scientist Conference, IISF-2020 on 22-25th Decemebr, 2020.
9. **"Traditional Knowledge and Modern Spectroscopic Techniques: Unique Combination for the Discovery of Bioactive Molecules from Medicinal Plants"** in E-Conference on Phytopharmaceuticals: Development, Regulatory, IPR & Marketing Challenges, School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi on 6th August, 2020.
10. **"Regioselective C(sp^3)-Methylation, Alkylation and Arylation *via* C(sp^3)-H Activation**" in International conference on organometallics and Catalysis-II (ICOC-II, 2020) at Holiday Inn Resort, Goa, India during March 07-10, 2020.

2019

11. "**Don't forget the Past: Traditional Knowledge Derived Discovery of Novel Bioactive Molecules**" in National Conference on Innovation in Bioprocess Technology (IBT-2019), CIAB, Mohali, Punjab, India, December 11-13, 2019.
12. "**Remote C-H Activation: Direct Access to C8-Functionalized Quinolines International Conference**" in Catalysis and Organic Synthesis (ICCOS-2019), Moscow, Russia, September 15-20, 2019.
13. "**Innovative Approaches for the Synthesis of Antimalarial Quinolines**" in Natural Product Based Therapeutics in Drug Development, NIPER-Raebareli, Lucknow, 14-15 Feb. 2019.

2018

14. **"Quinoline Functionalization *via* C-H Bond Activation: Synthesis of Anti-malarial Quinolines**"in International conference on organometallics and Catalysis (ICOC 2018) at Holiday Inn Resort, Goa, India during December 13-16, 2018.
15. "**Herbal Material: Basic Research and Issue of Contamination"** in two Week Intensive Course on Recent Trends and Challenges in Regulation and Standardization of Herbal Drugs and Formulations" organised by NIPER-SAS Nagar, 06-16 August 2018.

2017

16. **"Quinoline Functionalization through Remote C-H Activation Using Traceless Directing Group**" in Contemporary Facets in Organic Chemistry Synthesis (CFOS) 2017, IIT Roorkee, Uttarakhand, 22-24 December, 2017.

17. **"Medicinal Plant Processing: Novel Bioactive Molecules"** in Scenario of Medicinal Plants in Himalayan Region-Cultivation, Processing and Marketing, CSIR-IHBT, Palampur, India. Organised by

State Medicinal Plants Board, Himachal Pradesh, Ayurveda Bhawan, SDA Complex, Kasumpti, Shimla on 10-11 October, 2017.

18. **"Traditional Knowledge: A Perfect Guide for the Discovery of Novel Bioactive Molecules"** in Seventh Euro-India International Conference on Holistic Medicine (ICHM-2017), Kottayam, Kerala, India on 15-17 September 2017.

19. "**Future Affordable Medicines: Efforts Towards Novel Bioactive Molecules**" in Multidisplinary National Conference on Innovative Trends in Science, Technology and Management-IV on 24th August, 2017 Organised by Sri Sai University, Palampur, Himachal Pradesh.
20. "**Efforts Towards Characterization of Bioactive Molecules from Medicinal Plants**" 4th International Congress of the Society for Ethnopharmacology, India Healthcare in 21st century: Perspectives of Ethnopharmacology & Medicinal Plant Research, UKA Tassadia University, Bardoli, Surat, Gujrat on February 23-25, 2017.
(Manjushree Pal Memorial Award for Best Presentation from Ethanopharmacology Society of India, Kolkata)

2016

21. "**Phytochemical Investigation of *Tinospora cordifolia* and *Asparagus racemosus* for Potential Immunmodulatory Agents**" in Scientific Validation of Traditional knowledge, IIT Rorkee, Uttarakhand on March 12-13, 2016 Organized by MHRD-IPR Chair IIT Roorkee, Uttarakhand

Poster Presentation/Oral Presentation from Group

2022

1. A. Thakur, and U. Sharma*. Regioselective C(sp^2)-H Alkylation of Quinoline *N*-Oxides. Chemical Research Society of India 28th National Symposium in Chemistry (CRSI NSC-28), March 25-27, 2022, IIT Guwahati.
2. D. Parmar, and U. Sharma*. C(sp^3)-H Monoarylation of 8-Methylquinolines through Ru(II)-Catalysed C-H Activation. Chemical Research Society of India 28th National Symposium in Chemistry (CRSI NSC-28), March 25-27, 2022, IIT Guwahati.
3. Manisha, and U. Sharma*. Selective C(7)-H Halogenation of *N*-Pyrimidylindolines. Chemical Research Society of India 28th National Symposium in Chemistry (CRSI NSC-28), March 25-27, 2022, IIT Guwahati.
4. R. Kumar, and U. Sharma*. Transient Directing Group Assisted Atropeselective Olefination of Biaryls. Chemical Research Society of India 28th National Symposium in Chemistry (CRSI NSC-28), March 25-27, 2022, IIT Guwahati.
5. Sumit, and U. Sharma*. Regioselective C(sp^3)-H Trifluoromethylthiolation of 8-Methylquinoline. Chemical Research Society of India 28th National Symposium in Chemistry (CRSI NSC-28), March 25-27, 2022, IIT Guwahati.

2020

6. S. Patil, P. Singh, and U. Sharma*. Steroidal Saponins from Trillium govanianum: Isolation and Characterization. Gyantarang 2020, CSIR-NEIST, Jorhat Assam, 23-25 January 2020.

2019

7. R. Kumar and U. Sharma.* New Bioactive Molecules through C-H Bond Functionalization and [3+2] Cyclization of N-Heterocyclic Compounds in New Frontiers in Chemistry - From Fundamentals to Applications (NFCFA2019), Department of Chemistry, BITS Pilani, KK Birla, Goa Campus, 20-22 December, 2019. ***(Third Prize for this Poster)***
8. R. Kumar and U. Sharma.* Employing C-H activation for the synthesis of quinoline containing antimalarials in New Frontiers in Chemistry From Fundamentals to Applications (NFCFA2019), Department of Chemistry, BITS Pilani, KK Birla Goa Campus, 20-22 December, 2019.
9. S.S. Gupta and U. Sharma.* Derivatization of N-Heterocyclic Scaffolds to Bioactive Molecules Through C-H Activation Strategy in New Frontiers in Chemistry - From Fundamentals to Applications (NFCFA2019), Department of Chemistry, BITS Pilani, KK Birla Goa Campus, 20-22 December, 2019.
10. A.K. Dhiman and U. Sharma.* Design and Synthesis of Quinoline based Bioactive Heterocyclic Molecules through C-H Functionalization in New Frontiers in Chemistry - From Fundamentals to Applications (NFCFA2019), Department of Chemistry, BITS Pilani, KK Birla Goa Campus, 20-22 December, 2019.
11. I. Kumar and U. Sharma.* Photocatalyzed Metal/Oxidant-free ipso-Hydroxylation of Boronic Acids: Direct Synthesis of Phenols in New Frontiers in Chemistry - From Fundamentals to Applications (NFCFA2019), Department of Chemistry, BITS Pilani, KK Birla Goa Campus, 20-22 December, 2019.
12. A. K. Dhiman and U. Sharma.* Microwave-Assisted Metal-Free Three Component Reaction for Direct Synthesis of 2-Anilinoquinolines and 3-Hydroxyquinolines. In 25th CRSI National Symposium in Chemistry and CRSI-ACS 18-21 July, 2019, IIT Kanpur.
13. R. Kumar and U. Sharma.* Cobalt(III)-Catalyzed Alkylation of C(sp^3)-H Bonds of 8-Alkylquinolines with Maleimides. In 25th CRSI National Symposium in Chemistry and CRSI-ACS 18-21 July, 2019, IIT Kanpur.
14. D. Chandra and U. Sharma.* Rapid Synthesis of Quinoline by Organic Acid Mediated Povarov Type Multicomponent Reaction. In 25th CRSI National Symposium in Chemistry and CRSI-ACS 18-21 July, 2019, IIT Kanpur.

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15. A. K. Dhiman, S. Chaudhary, R. Kumare, R. Kumar and U. Sharma.* Synthesis of 2-substituted-3-(2-hydroxyaryl)quinolines and 4-(2-hydroxyaryl)acridines. in Contemporary Facets in Organic Chemistry Synthesis (CFOS) 2017, IIT Roorkee, Uttarakhand, 22-24 December, 2017.
16. R. Sharma, R. Kumar, I. Kumar and U. Sharma.* $[Cp^*RhCl_2]_2$ Catalyzed Remote Functionalization of Quinolines and their Mechanistic Understanding. ***Indo-US Bilateral Workshop*** Organised by IISc Bangalore, IISER Kolkata and IIT Mumbai at Rhythm Lonavala, Lonavala, Maharashtra, India during December 7-10, 2017.
17. R. Kumar, A. K. Dhiman and U. Sharma.* Metal-free C-2 Arylation of Quinoline *N*-Oxides with Aryldiazonium Salts/Anilines. ***21st CRSI National Symposium in Chemistry*** n organised by CSIR-IICT, Tarnaka Hyderabad-500007 on 2017.
18. R. Sharma, I. Kumar, R. Kumar and U. Sharma* Rhodium (III)-Catalyzed Remote C-H Activation/functionalization of Quinolines. ***21st CRSI National Symposium in Chemistry*** organised by CSIR-IICT, Tarnaka Hyderabad-500007 on 2017.
19. Onkar S Nayal, M S Thakur, N. Kumar, U. Sharma* and B. Singh.* Novel Approches for the Synthesis of Tertiary Amines via Carbocationic Pathway. ***VI National Symposium on Advances in Chemical Science*** *at* GNDU, Amritsar, Punjab, India on 5-6 March, 2017. ***(Best Poster Award)***

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20. R. Sharma, I. Kumar and U. Sharma.* Rhodium-catalyzed remote C-H activation using traceless directing group. ***21st International Conference on Organic Chemistry***, IIT Bombay, Bombay, India on 11-16 December, 2016.

21. Rakesh Kumar, Ankit Kumar Dhiman and Upendra Sharma. Catalyst and Solvent Free Access to Bioactive Quinoline Derivatives. ***21st International Conference on Organic Chemistry***, IIT Bombay, Bombay, India on 11-16 December, 2016.

22. M. Kumar, N. Kumar, B. Singh and U. Sharma.* Harnessing bio-based reagents for C-N bond formation reactions. ***21st International Conference on Organic Chemistry***, IIT Bombay, Bombay, India on 11-16 December, 2016.

23. S. Sharma, N. Kumar, B. Singh and U. Sharma.* Bioactivity to organocatalysis: Introduction of vasicine for C-C bond formation and reduction reaction. ***21st International Conference on Organic Chemistry***, IIT Bombay, Bombay, India on 11-16 December, 2016.

24. A. Chaudhary, U. Sharma, A. P. Vig, V. Sharma, B. Singh and S. Arora. Biological and Chemical Investigation of Brassica oleracea L. Var. italica Plenck (Broccoli) at Different Developmental Stage. ***ICEMCH–2016, International Conference on Environmental Mutagenesis, Carcinogenesis and Health and 40th Annual Meeting of Environmental Mutagen Society of India (EMSI)***, GNDU, Amritsar, India on 17-19 February, 2016.

25. M. Chandel, M. Kumar, U. Sharma, N. Kumar, B. Singh and S. Kaur. Isolation and Characterization of Phytoconstituents from *Anthocephalus cadamba* (Roxb.) Miq. Leaves with Potent Antioxidant, Antigenotoxic, Antiproliferative and COX-2 Inhibitory Activities. ***ICEMCH – 2016, International Conference on Environmental Mutagenesis, Carcinogenesis and Health and 40th Annual Meeting of Environmental Mutagen Society of India (EMSI)***, GNDU, Amritsar, India on 17-19 February, 2016.

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26. U. Sharma, S. Agasti, T. Naveen and D. Maity. Palladium Catalyzed Selective Synthesis of Substituted Benzofurans from Phenols and Olefins: One-Step Triple C-H Activation. ***16th CRSI National Symposium in Chemistry***. Organised by Chemical Research Socity of India at Indian Institute of Technology Bombay, Powai, Mumbai. (**2014**)

27. V. Kumar, U. Sharma, P. K. Verma, B. Singh, N. Kumar. Metal Phthalocyanines: Biomimetic Catalysts for Selective and Sustainable Organic Synthesis. ***6th International Conference on Green and Sustainable Chemistry (GSC-6)*** at The University of Nottingham, Nottingham, UK (**2013**).

28. U. Sharma, P. K. Verma, V. Kumar, N. Kumar and B. Singh. Highly Chemo- and Regioselective Metal Phthalocyanines Catalyzed Reductions. ***12th Eurasia Conference on Chemical Sciences*** Organised by University of Ioannina at Chandris Hotel, Corfu, Greece. (**2012**)

29. U. Sharma, P. K. Verma, V. Kumar, N. Kumar and B. Singh. Metal Phthalocyanines as Efficient Catalysts for Highly Chemo- and Regioselective Organic Transformations. ***3rd Asian Conference on Coordination Chemistry*** Organised by IIT, Kanpur and IIT Delhi at India Habitat Center, New Delhi, India (ACCC-3, **2011**).

30. U. Sharma, R. Saini, Bobita, N. Kumar and B. Singh. Diagnostic NMR Signals for Structure Elucidation of Steroidal Saponins from *Asparagus racemosus*. ***17th Conference of National Magnetic Resonance Society*** at GNDU, Amritsar, India (NMRS, **2011**).

31. U. Sharma, R. Saini, P. Bhandari, N. Kumar and B. Singh Reversed-Phase HPLC-Evaporative Light Scattering Detection for Determination of Immunomodulatory Sugars in *Tinospora cordifolia*. 2nd National Symposium on Analytical Sciences on ***Analytical Innovations for Process and Technology Development*** organized by Indian Society of Analytical Scientists and IHBT, at IHBT Palampur (**2008**).

32. V. Kumar, U. Sharma, P. K. Verma, C. Singh, N. Kumar, and B. Singh. Silica Supported Perchloric Acid (H_3BO_4-SiO_2): A Versatile Reagent for Fundamental Organic Transformations. International Symposium on ***Recent Advances in Chromatography Science and Green Chemistry*** organized by Indian Society of Analytical Scientists at Manav Rachna International University, Faridabad, India (**2012**).

33. V. Kumar, U. Sharma, N. Kumar and B. Singh. Structure Elucidation of Diastereomeric Furofuran Lignans of *Zanthoxylum armatum* by NMR Spectroscopy. ***17th Conference of National Magnetic Resonance Society***, GNDU, Amritsar, India (NMRS, **2011**).

(Dr. U. Sharma)