

CURRICULAM VITAE

UPENDRA SHARMA, PhD

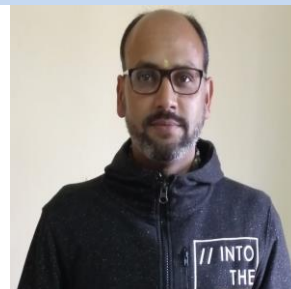
Senior Scientist
Chemical Technology Division
CSIR-Institute of Himalayan Bioresource Technology
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&

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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-)
- Member of Early Career Advisory Board of *Asian Journal of Organic Chemistry* (2020-)
- One Year Advance Promotion *i.e.* Merit Promotion from Scientist to Senior Scientist
- Manjushree Pal Memorial Award for Best Oral Presentation from Ethnopharmacology 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, Chemical Research Society of India (CRSI) (LM No. LM 3471).

Life member, Catalysis Society of India (CSI) (LM No. LM1068).

Life member, Analytical Society of Analytical Scientists (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

Nature Chemistry
ACS Catalysis
Organic Letters
Chemical Communication
Green Chemistry
Advance Synthesis & Catalysis
Organic Chemistry Frontier
The Journal of Organic Chemistry
ACS Omega
Polyhedron
Chemistry of Material
Catalysis Letter
ChemMedChem
Organic Chemistry-An Indian Journal
Synthesis

Natural Product Chemistry

Journal of Natural Products
Journal of Ethanopharmacology
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 onwards)
- 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

- Co-Coordinator and acted as resource person in a Capacity Building Programme for Ph.D. students and Faculty from MDU, Rohtak on “**Advanced Scientific Laboratory and Instrumentation**” under UGC-STRIDE Programme at CSIR-IHBT, Palampur November 07-08, 2022.
- 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) File No. BT/PR45264/NER/95/1920/2022	2022-2025	Co-Principal Investigator
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 <i>Curcuma longa</i> (turmeric) in Uttarakhand. <i>In collaboration: Graphic Era (Deemed to be University), Utterakhand.</i>	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 <i>Stevia rebaudiana</i> .	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 <i>Carum carvi</i> and <i>Bunium persicum</i> .	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	SERB-DST (EMR/2014/001023)	2015-2018	Principal Investigator

	Heterocyclic Compounds.			
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 <i>Cissampelos pareira</i> per regulatory guidelines of AYUSH.	CSIR/Phytopharma Mission	2017-2020	Principal Investigator
	Technology packages for production of GMP grade medicinal plant extracts of <i>Ginkgo biloba</i> .	CSIR/Phytopharma Mission	2017-2020	Principal Investigator
6	High throughout genotyping to expedite the genetic characterization and dissection of important agronomic traits of tea.	DST	2018-2021	Co-Principal Investigator
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 <i>Stevia rebaudiana</i> (Bertoni).	CSIR/Agri Nutri Biotech Mission	2018-2020	Co-Principal Investigator
1	Development of process for converting raw cellulosic biomass into textile fiber and nanocellulose.	CSIR/Agri Nutri Biotech Mission	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	1. Dr. Shruti Sharma completed thesis entitled “Exploration of <i>Polygonatum verticillatum</i> for its chemistry and therapeutic potential” on 21 st September 2022.
2. Ms. Diksha Parmar	2. Dr. Patil Shiv Prasad Suresh completed thesis entitled “Phytochemical and Pharmacological Investigation of <i>Trillium goavnianum</i> Wall. Ex D.Don for Steroidal Saponins” on 15 th February 2022.
3. Ms. Surekha Kumari	3. Dr. Ankit Kumar Dhiman completed thesis entitled “Development of Methodologies for the Synthesis of N-Heterocyclic Derivatives through C-H Bond Functionalization” on 23 rd December 2021.
4. Mr. Sumit	4. Dr. Inder Kumar completed thesis entitled “Development of Photocatalytic Methodologies for the C-C and C-Heteroatom Bond Formation” on 15 th July 2021.
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 17. Mr. Gaurav Aggrawal	5. Dr. Rakesh Kumar completed thesis entitled " Synthesis and Derivatization of N-Heterocyclic Compounds through C-H Bond Functionalization " on 5 th February 2020. 6. Dr. Ritika Sharma completed thesis entitled " Synthesis of Quinoline Derivatives via Catalytic Remote C-H Activation " on 26 th July, 2019. 7. Dr. Deepali Katoch completed Thesis entitled " Phytochemical and pharmacological investigation of <i>Zephyranthes grandiflora</i> and <i>Narcissus tazetta</i> for Amaryllidaceae alkaloids and their synthetic modification " 19 th July 2019. 8. Dr. Vinod Bhatt completed thesis entitled " Phytochemical and Synergy-Directed Biological Studies of <i>Zanthoxylum</i> Species " on 15 th February 2018.
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(c) **Post graduation training/thesis: 19 [National: 18 International: 1]**

Awarded
<p>International Student Under CSIR-TWAS Fellowship</p> <p>1. Mrs. Adenike Evelyn ADENIYI, University of Ibadan, Nigeria completed six-month TWAS-CSIR fellowship research on thesis entitled "Suitability of Seed Oil of <i>Hildegardia barteri</i> (Mast. Kosterm) for Production of Selected Bio-Products" in 24th January-July, 2018.</p>
<p>National</p> <p>2. Mr. Sahil Rana, Chandigarh University, completed one and half months training entitled "Phytochemical Investigation of Plants" in June-August, 2022.</p> <p>3. Ms. Nivedita Thakur, GNDU, Amritsar, completed five months training entitled "Synthesis and Characterisation of Isoquinoline Derivatives" in Feb-July, 2022.</p> <p>4. Ms. Anjali, Chandigarh University, completed two months training entitled "Basics in natural product chemistry" under SERB-DST funded project in Jan-March, 2022.</p> <p>5. Mr. Arpit Mahajan, Guru Nanak Dev University, completed four months training entitled "Protection of amino acids using phthalic anhydride" in Jan-April, 2020.</p> <p>6. Mr. Ayush Kumar, DAV University, Jalandhar (Pb) completed one-month training on basic lab practices in organic synthesis in January, 2020.</p> <p>7. Dr. Naresh Kumar, IIT, Indore (MP) completed six-month training on synthesis of heterocyclic molecules in July-December, 2019.</p> <p>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.</p> <p>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.</p> <p>10. Mr. Anurag Shukla, Amity University, Noida (UP) completed one and half month training entitled "Extraction, qualitative and quantitative analysis of <i>Camellia sinensis</i> leaves" May-July, 2019.</p> <p>11. Mr. Vikrant, Shoolini University, Solan, HP, completed two-month training entitled "Synthesis of Quinoline N-oxide and maleimides" in June-August, 2018.</p> <p>12. Ms. Vivekshu, Chandigarh University, Chandigarh, completed one-month training entitled "Analytical Techniques used in Phytochemical investigations" in May-June, 2018.</p> <p>13. Ms. Alka Devi, Ahilya Vishwavidyalaya, Indore (M.P.) completed six-month training entitled "Phytochemical and In-silico biological studies of <i>Cissampelos pareira</i>" in January-June, 2018.</p> <p>14. Ms. Jyoti, Amity University Gurgaon, Haryana, completed two-month training entitled "Extraction, Fractionation and Isolation of Secondary Metabolites from <i>Cissampelos pareira</i> Roots" in March-April, 2018.</p>

15. Mr. Sachin, Amity University Gurgaon, 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 Gurgaon, Haryana, completed one-month training entitled “Phytochemical Investigation of *Cissampelos pareira*” in July, 2017.
18. Ms. Reetu Bala, SGGGS 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 Gurgaon, Haryana, completed one-month training entitled “Synthesis of Quinoline *N*-Oxides and Quinoline Ylides” in July, 2017.

PUBLICATIONS

Total: **144** Citation: **>4170** h-index: **32** i-10 index: **91**

After Independent Research Lab: **98**

Book Chapter: **9**

Patent: **3** (Granted: 02; Filed: 01)

Invited/Oral Presentations: **26**

Paper presented in conferences: **36**

S. NO.	NAME OF ALL THE AUTHORS	TITLE OF THE PAPER	NAME OF THE JOURNAL, YEAR, VOLUME, PAGE
144	Rohit Kumar, Diksha Parmar, Devesh Chandra, Sarthi, and Upendra Sharma,*	Regioselective C(sp ³)-H Amidation of 8-methyl Quinolines with <i>N</i> -hydroxyphthalimides.	<i>Chemical Communications</i> , 2022, 58, 13151-13154.
143	Patil Shivprasad Suresh, Prithvi Pal Singh, Mohit Sharma*, and Upendra Sharma*	Multicomponent natural deep eutectic solvents: Super solvents for the efficient extraction of steviol glycosides (rebaudioside A) from <i>Stevia rebaudiana</i>	<i>Journal of Cleaner Production</i> , 2022, doi.org/10.1016/j.jclepro.2022.135639.
142	Sandeep Kumar, Anmol, Upendra Sharma*, S.G. Eswara Reddy*	Insecticidal potential of extracts, fractions, and molecules of <i>Aconitum heterophyllum</i> Wall ex. Royle against aphid, <i>Aphis craccivora</i> Koch (Hemiptera: Aphididae)	<i>Pest Management Science</i> , 2022, doi.org/10.1080/14786419.2022.2126469.
141	Surekha Kumari, Anmol, and Upendra Sharma*	A cularine type isoquinoline alkaloid from the root part of <i>Cissampelos pareira</i> .	<i>Natural Product Research</i> , 2022, doi.org/10.1080/14786419.2022.2126469.
140	Tanvi Sharma, Anmol, Upendra Sharma, and Sanjay Kumar*	Iridoid glycosides from <i>Picrorhiza</i> genus endemic to Himalayan region: phytochemistry, biosynthesis, pharmacological potential and biotechnological intercessions to boost production.	<i>Critical Reviews in Biotechnology</i> , 2022, doi.org/10.1080/07388551.2022.2117681.
139	Shiv Shankar Gupta, Diksha Parmar, Rohit Kumar, Devesh	Construction of <i>N</i> -Heterocycles through Group 9 (Co, Rh, Ir)	<i>Catalysis Reviews: Science and</i>

	Chandra, and Upendra Sharma*	Metal-Catalyzed C-H Activation: Utilizing Alkynes and Olefins as Coupling Partners.	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	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 , 2022, 64, 716-788.
136	Diksha Parmar, Ankit Kumar Dhiman, Rohit Kumar, Akhilesh K. Sharma* and Upendra Sharma*	Cp*Co(III)-Catalyzed Selective C8-Olefination and Oxyarylation of Quinoline <i>N</i> -Oxides with Terminal Alkynes.	The Journal of Organic Chemistry , 2022, 87, 9069-9087.
135	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 <i>Trillium govanianum</i> .	Separation and Purification Technology , 2022, 294, 121105.
134	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 <i>Onosma bracteata</i> Wall. against human osteosarcoma (MG-63) cells.	Molecules , 2022, 27, 3478.
133	Madiha Haider, Vivek Anand, M. Ghalib Enayathullah, Yash Parekh, Sushma Ram, Surekha Kumari, Anmol, Gayatri Panda, Manjari Shukla, Dhvani Dholakia, Arjun Ray, Sudipta Bhattacharyya, Upendra Sharma, Kiran Kumar Bokara, Bhavna Prasher* and Mitali Mukerji*	Anti-SARS-CoV-2 potential of <i>Cissampelos pareira</i> L. identified by Connectivity map-based analysis and <i>in vitro</i> studies.	BMC Complementary Medicine and Therapies , 2022, 22, 114.
132	Ankita Thakur, Manisha, Inder Kumar, and Upendra Sharma*	Visible Light Induced Functionalization of C-H Bonds: Opening of New Avenues in	Asian Journal of Organic Chemistry , 2022, 11, e202100804.

		Organic Synthesis.	
131	Surekha Kumari, Shudh Kirti Dolma, Anmol, Upendra Sharma,* and S.G. Eswara Reddy*	Insecticidal activity of extracts, fractions and pure molecules of <i>Cissampelos pareira</i> Linnaeus against aphid, <i>Aphis craccivora</i> Koch.	Molecules , 2022, 27, 633.
130	Anmol, Surekha Kumari, Raman Singh, Gaurav Aggarwal, Prakhar Agrawal, Dinkar Sahal,* and Upendra Sharma*	Antiplasmodial diterpenoid alkaloid from <i>Aconitum heterophyllum</i> Wall. ex Royle: Isolation, characterization, and UHPLC-DAD based quantification.	Journal of Ethnopharmacology , 2022, 287, 114931.
129	Prithvi Pal Singh, Patil Shivprasad Suresh, Prateek Singh Bora, Vinod Bhatt, and Upendra Sharma*	Govanoside B, A New Steroidal Saponin from Rhizomes of <i>Trillium govanianum</i> .	Natural Product Research , 2022, 36, 37-45.
128	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.
127	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.
126	Madhu Thapliyal, Sachin Panwar, Deepak Rana, Manu Pant, Prabhakar Semwal, Upendra Sharma, Suktalang Majaw, Vinay Nautiyal, Sanjay Kumar, Rajendra Dobhal and Ashish Thapliyal*	Biochemical Analysis of Curcumin Content of Turmeric (<i>Curcuma Longa</i>) from Himalayan Region of Uttarakhand and Its Economic Potential.	Biochem. Cell. Arch. 2022, 22, 1509-1514.
125	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.
124	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.
123	Sumit, Devesh Chandra, Ankita Thakur, Ankit Kumar Dhiman, and Upendra Sharma*	Cp*Rh(III)-Catalyzed Regioselective C(sp ³)-H Electrophilic Trifluoromethylthiolation of 8-Methylquinolines.	The Journal of Organic Chemistry , 2021, 86, 13754-13761.

122	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.
121	Ankita Thakur, Ankit Kumar Dhiman, Sumit, Rakesh Kumar, and Upendra Sharma*	Rh(III)-Catalyzed Regioselective C8-Alkylation of Quinoline <i>N</i> -Oxides with Maleimides and Acrylates.	The Journal of Organic Chemistry , 2021, 86, 6612-6621.
120	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.
119	Inder Kumar, Ankita Thakur, Manisha and Upendra Sharma *	α -Oxygenation of <i>N</i> -Aryl/Alky Heterocyclic Compounds via Ruthenium-Photocatalysis.	Reaction Chemistry & Engineering , 2021, 6, 2087-2091.
118	Ankit Kumar Dhiman, Rohit Kumar and Upendra Sharma*	Catalyst and Additive-Free Synthesis of Fluoroalkoxyquinolines.	Synthesis , 2021, 53, 4124-4130.
117	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.
116	Patil Shivprasad Suresh, Krishan Gopal Thakur,* and Upendra Sharma*	Molecular Docking and Dynamic Simulation Approach to Decipher Steroidal Saponins (Genus <i>Trillium</i>) Derived Agonists for Glucocorticoid Receptor.	Journal of Biomolecular Structure and Dynamics , 2021, DOI: 10.1080/07391102.2021.2003864.
115	Shivani Puri, Dinkar Sahal*, Upendra Sharma,*	A Conversation Between Hyphenated Spectroscopic Techniques and Phytometabolites from Medicinal Plants.	Analytical Science Advance , 2021, 2, 579-593.
114	Madiha Haider, Dhvani Dholakia, Aleksha Panwar, Parth Garg, Atish Gheware, Dayanidhi Singh, Khushboo Singhal, Shaunak A Burse, Surekha Kumari, Anmol, Arjun Ray, Guruprasad R. Medigeshe, Upendra Sharma, Bhavana Prasher* and Mitali Mukerji*	Transcriptome Analysis and Connectivity Mapping of <i>Cissampelos pareira</i> L. Provides Molecular Links of ESR1 Modulation to Viral Inhibition.	Scientific Reports , 2021, 20095.
113	Patil Shivprasad Suresh, Prithvi Pal Singh, Anamika Sharma, Yogendra S Padwad,* and Upendra Sharma*	Steroidal Saponins of <i>Trillium govanianum</i> : Quality Control, Pharmacokinetic Analysis, and Anti-inflammatory Activity.	Biocatalysis and Agricultural Biotechnology , 2021, 35, 102071.
112	Shiv Shankar Gupta, Ashwani Kumar, Ravi Shankar,* Upendra	<i>In Silico</i> Approach for Identifying Natural Lead	Journal of Molecular Graphics and Modelling , 2021, 106,

	Sharma*	Molecules Against SARS-COV-2.	107916.
111	Surekha Kumari, Anmol, Vinod Bhatt, Patil Shivprasad Suresh, and Upendra Sharma*	<i>Cissampelos pareira</i> L.: A Review of its Traditional Uses, Phytochemistry, and Pharmacology.	Journal of Ethnopharmacology , 2021, 274, 113850.
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19	Vishal Kumar, Sushila Sharma, Upendra Sharma, Bikram Singh, Neeraj Kumar	Synthesis of Substituted Amines and Isoindolinones: Catalytic Reductive Amination using Abundantly Available AlCl ₃ /PMHS.	<i>Green Chemistry</i> 2012, 14, 3410.
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9	Rajbir Kaur, Upendra Sharma, Bikram Singh Saroj Arora	Antimutagenic Potential of Chickrassy (<i>Chukrasia tabularis</i> A. Juss) bark.	Journal of Medicinal Plants Research , 2011, 5, 5021.
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6	Upendra Sharma, Pamita Bhandari, Neeraj Kumar, Bikram Singh	Simultaneous Determination of Ten Sugars in <i>Tinospora cordifolia</i> by Ultrasonic Assisted Extraction and HPLC-ELSD Method.	Chromatographia , 2010, 71, 633.
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2	Ritu Bala, Raj Pal Sharma, Upendra Sharma, Andrew D. Burrows, Kevin Cassar	Hexaamminecobalt(III) Complexes as Multiple Hydrogen Bond Donors: Synthesis, Characterization and X-ray Structural Study of Mixed Anion Complexes [Co(NH ₃) ₆]Br ₂ (BF ₄) and	Journal of Molecular Structure , 2007, 832, 156.

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BOOK CHAPTER

1. P. S. Suresh, Anmol, and U. Sharma.* Role of Supramolecules in Anti-inflammatory Drugs. N. Goel, N. Kumar (eds.), *Pharmaceutical Applications of Supramolecules*, 2023, Chapter 07, [Springer Nature Switzerland AG 2023](#), DOI : 10.1007/978-3-031-21900-9.
2. U. Sharma,* R. Kumar, S. S. Gupta, D. Chandra. Quinolines (Update 2022), *Science of Synthesis Knowledge Updates (Thieme)*, 2022, 2, 63-327.
3. A. K. Dhiman, and U. Sharma.* Rhodium-Catalysed C-H Halogenation. Maiti D. (eds.) *Handbook of CH-Functionalization (CHF)*, [Wiley](#), 2022, <https://doi.org/10.1002/9783527834242.chf0024>.
4. Manisha, and U. Sharma.* Rhodium and Iridium-Catalyzed Benzylic C-H Functionalization. Maiti D. (eds.) *Handbook of CH-Functionalization (CHF)*, [Wiley](#), 2022, <https://doi.org/10.1002/9783527834242.chf0143>.
5. 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)*, 2022, [Wiley](#), <https://doi.org/10.1002/9783527834242.chf0122>.
6. 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.
7. 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. pp 721-768, [Springer](#), Cham, https://link.springer.com/chapter/10.1007/978-3-030-74779-4_22.
8. 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.
9. 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.
10. 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.
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PAPER PRESENTED IN CONFERENCE

Invited/Oral Presentations (National/International)

2022

1. **“Drug Discovery and Preclinical Trials”** in “CME Training Programme for Ayurvedic Medical Officers” Organised by Research institute in Indian system of Medicine Joginder Nagar, Distt. Mandi, Himachal 12-17 December 2022 (14th December, 2022).
2. **“Plant’s Special Metabolites: Why they are Important?”** in in “CME Training Programme for Ayurvedic Medical Officers” Organised by Research institute in Indian system of Medicine Joginder Nagar, Distt. Mandi, Himachal 12-17 December 2022 (14th December, 2022)..
3. **“ Chemistry of Plants: A Tale from Plants to Phytomolecules”** in Regional Level Science Congress at Palampur Science Center, Palampur, Himachal on 05-09 December (6th December, 2022).
4. **“Traditional Knowledge-Medicinal Plants-Bioactive Molecules”** in DST-Under Accelerate Vigyan Scheme “Hands on Training Program on Development of Nutraceutical Based Formulations and Their Characterization" Organised by CSIR-IHBT, Palampur, 22-28 November 2022 (23rd November, 2022).
5. **“Traditional Knowledge-Medicinal Plants-Bioactive Molecules”** in DST-STUTI “Recent Approached and Techniques in Drug Design and Drug Discoverys” Organised by ICT, Mumbai at Shoolini University, 22-28 August 2022.
6. **“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.
7. **“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.
8. **“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.

9. **“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.

10. **“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

11. **“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.

12. **“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

13. **“Utilizing Plant Traditional Knowledge for the Discovery of Bioactives”** in Young Scientist Conference, IISF-2020 on 22-25th Decemebr, 2020.

14. **“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.

15. **“Regioselective C(sp³)-Methylation, Alkylation and Arylation *via* C(sp³)-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

16. **“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.

17. **“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.

18. **“Innovative Approaches for the Synthesis of Antimalarial Quinolines”** in Natural Product Based Therapeutics in Drug Development, NIPER-Raebareli, Lucknow, 14-15 Feb. 2019.

2018

19. **“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.

20. **“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

21. **“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.
22. **“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.
23. **“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.
24. **“Future Affordable Medicines: Efforts Towards Novel Bioactive Molecules”** in Multidisciplinary National Conference on Innovative Trends in Science, Technology and Management-IV on 24th August, 2017 Organised by Sri Sai University, Palampur, Himachal Pradesh.
25. **“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

26. **“Phytochemical Investigation of *Tinospora cordifolia* and *Asparagus racemosus* for Potential Immunomodulatory 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. Surekha Kumari, and U. Sharma*. Phytochemical investigation of *Cissampelos pareira* for validation of traditionally claimed antiplasmodial potential. National Conference on Fornteir in Chemical Sciences (NCFCS), November 04-05, 2022, Central University of Himachal Pradesh, Dharamsala.
2. Anmol, and U. Sharma*. Exploration of antiplasmodial potential of *Aconitum heterophyllum* Wall. ex Royle and development of UHPLC-DAD based quality assessment method. National Conference on Fornteir in Chemical Sciences (NCFCS), November 04-05, 2022, Central University of Himachal Pradesh, Dharamsala.
3. Anmol, and U. Sharma*. Phytochemical investigation of *Aconitum heterophyllum* Wall. ex Royle to validate its traditionally claimed antiplasmodial potential. International Conference on Conservation, Cultivation and Sustainable Use of High Altitude Medicinal and Aromatic Plants for the Socio-economic Development, May 07-08, 2022, Uttarakhand Ayurveda University, Dehradun.
4. A. Thakur, and U. Sharma*. Regioselective C(sp²)-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.

5. D. Parmar, and U. Sharma*. C(sp³)-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.
6. 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.
7. R. Kumar, and U. Sharma*. Transient Directing Group Assisted Atroposelective Olefination of Biaryls. Chemical Research Society of India 28th National Symposium in Chemistry (CRSI NSC-28), March 25-27, 2022, IIT Guwahati.
8. Sumit, and U. Sharma*. Regioselective C(sp³)-H Trifluoromethylthiolation of 8-Methylquinoline. Chemical Research Society of India 28th National Symposium in Chemistry (CRSI NSC-28), March 25-27, 2022, IIT Guwahati.

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9. 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

10. 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)**
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. R. Kumar and U. Sharma.* Cobalt(III)-Catalyzed Alkylation of C(sp³)-H Bonds of 8-Alkylquinolines with Maleimides. In 25th CRSI National Symposium in Chemistry and CRSI-ACS 18-21 July, 2019, IIT Kanpur.
17. 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.

2017

18. 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.
19. R. Sharma, R. Kumar, I. Kumar and U. Sharma.* [Cp*RhCl₂]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.
20. 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.
21. 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.
22. 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**)

2016

23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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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29. 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 Society of India at Indian Institute of Technology Bombay, Powai, Mumbai. (2014)
30. 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).
31. 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)
32. 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).
33. 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).
34. 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).
35. V. Kumar, U. Sharma, P. K. Verma, C. Singh, N. Kumar, and B. Singh. Silica Supported Perchloric Acid (H₃BO₄-SiO₂): 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).
36. 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)