

CURRICULAM VITAE

UPENDRA SHARMA, PhD

Senior Scientist

Chemical Technology Division

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PROFESSIONAL EXPERIENCE

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

Scientist (1st September 2014- 31st August 2017) at NPC&PDD, 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 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)

INSTITUTIONAL RESPONSIBILITIES

- DAC member of Ph.D students enrolled in AcSIR
- Technical and Purchase Committee Member for the procurement of instruments

PROJECTS

	Project Title	Funding Agency	Duration	Role
In Progress: 08				
18	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
17	Bio-prospecting and product development from Curcuma longa (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 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 <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 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) **Ph.D.: 24**
Awarded/Submitted: 8
Current: 16

Pursuing	Awarded/Submitted
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 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 <i>Polygonatum verticillatum</i> for its chemistry and therapeutic potential " on 21 st September 2022. 2. Dr. Patil Shiv Prasad Suresh completed thesis entitled " Phytochemical and Pharmacological Investigation of <i>Trillium goavniatum</i> Wall. Ex D. Don for Steroidal Saponins " on 15 th 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 23 rd December 2021. 4. Dr. Inder Kumar completed thesis entitled " Development of Photo-catalytic Methodologies for the C-C and C-Heteroatom Bond Formation " on 15 th July 2021. 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.

 (b) **Post graduation training/thesis:**

National: 15

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 <i>Hildegardia barteri</i> (Mast. Kosterm) for Production of Selected Bio-Products " in 24 th January-July, 2018.
National 2. Mr. Arpit Mahajan, Guru Nanak Dev University , completed four months training entitled " Protection of amino acids using phthalic anhydride " in Jan-April, 2020. 3. Mr. Ayush Kumar , DAV University, Jalandhar (Pb) completed one-month training on basic lab practices in organic synthesis in January, 2020. 4. Dr. Naresh Kumar , IIT, Indore (MP) completed six-month training on synthesis of heterocyclic molecules in July-December, 2019. 5. 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.

6. **Ms. Ankita Rana**, Chandigarh University, Gharuan, Pb, completed one and half month training entitled **“Study towards Oxidation of Quinoline Derivatives”** in June-August, 2019.
7. **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.
8. **Mr. Vikrant**, Shoolini University, Solan, HP, completed two-month training entitled **“Synthesis of Quinoline N-oxide and maleimides”** in June-August, 2018.
9. **Ms. Vivekshu**, Chandigarh University, Chandigarh, completed one-month training entitled **“Analytical Techniques used in Phytochemical investigations”** in May-June, 2018.
10. **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.
11. **Ms. Jyoti**, Amity University Gurgaon, Haryana, completed two-month training entitled **“Extraction, Fractionation and Isolation of Secondary Metabolites from *Cissampelos pareira* Roots”** in March-April, 2018.
12. **Mr. Sachin**, Amity University Gurgaon, Haryana, completed two-month training entitled **“Functionalization of Quinoline and their characterization”** in March-April, 2018.
13. **Mr. Saurabh Kumar**, SHUATS, Allahabad, completed one-month training entitled **“Fractionation and Isolation of Secondary metabolites from *Cissampelos pareira*”** in July, 2017.
14. **Mr. Amit**, Amity University Gurgaon, Haryana, completed one-month training entitled **“Phytochemical Investigation of *Cissampelos pareira*”** in July, 2017.
15. **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.
16. **Mr. Sachin**, Amity University Gurgaon, Haryana, completed one-month training entitled **“Synthesis of Quinoline N-Oxides and Quinoline Ylides”** in July, 2017.

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

Nature Chemistry
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

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

PHD THESIS EXAMINER

PhD Thesis Evaluated till date: **7** Viva Exam Taken: **4**

PUBLICATIONS

Total: **132** Citation: **>3656** h-index: **31** i-10 index: **74**After Independent Research Lab: **86**Book Chapter: **8**Patent: **3** (Granted: 02; Filed: 01)Invited/Oral Presentations: **16**Paper presented in conferences: **28**

S. No.	NAMES OF ALL THE AUTHORS	TITLE OF THE PAPER	NAME OF THE JOURNAL, VOLUME, YEAR AND PAGE
132	Ankita Thakur, Manisha, Inder Kumar, and Upendra Sharma*	Visible Light Induced Functionalization of C-H Bonds: Opening of New Avenues in Organic Synthesis.	<i>Asian Journal of Organic Chemistry</i> , 2022, doi.org/10.1002/ajoc.202100804.
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.	<i>Molecules</i> , 2022, 27, 633.
130	Anmol, Surekha Kumari, RamanSingh, Gaurav Aggarwal, PrakharAgrawal, Dinkar Sahal,* and Upendra Sharma*	Antiplasmodial diterpenoid alkaloid from <i>Aconitum heterophyllum</i> Wall. ex Royle: Isolation, characterization, and UHPLC-DAD based quantification.	<i>Journal of Ethnopharmacology</i> , 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> .	<i>Natural Product Research</i> , 2022, 36, 37-45.
128	Rohit Kumar, Devesh Chandra, and Upendra Sharma*	Pd-Catalyzed Atropselective C-H Olefination Promoted by a Transient Directing Group.	<i>Advance Synthesis & Catalysis</i> , 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.	<i>The Chemical Records</i> , 2021, doi.org/10.1002/tcr.202100271.
126	Devesh Chandra, Nikunj Kumar, Sumit, Diksha Parmar, Puneet Gupta,* and Upendra Sharma*	Co(III)-catalysed regioselective linear C(8)-H olefination of isoquinolone with terminal aromatic and aliphatic alkynes. Highlighted on Front Cover Page , 2021, 57, 11567-11568.	<i>Chemical Communications</i> , 2021, 57, 11613-11616.
125	Shiv Shankar Gupta, Manisha, Rakesh Kumar, Ankit Kumar	Predictable Site-Selective	<i>Organic & Biomolecular Chemistry</i> , 2021, 19,

	Dhiman, and Upendra Sharma*	Functionalization: Promoter Group Assisted para-Halogenation of N-Substituted (Hetero)Aromatics under Metal-Free Condition.	9675-9687.
124	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.
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 <i>Trillium</i>) 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, Dhvani Dholakia, Aleksha Panwar, Parth Garg, Atish Gheware, Dayanidhi Singh, Khush	Transcriptome Analysis and Connectivity Mapping of	Scientific Reports , 2021, 20095.

	boo Singhal, Shaunak A Burse, Surekha Kumari, Anmol, Arjun Ray, Guruprasad R. Medigeshi, Upendra Sharma, Bhavana Prasher* and Mitali Mukerji*	<i>Cissampelos pareira</i> L. Provides Molecular Links of ESR1 Modulation to Viral Inhibition.	
114	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.
113	Shiv Shankar Gupta, Ashwani Kumar, Ravi Shankar,* Upendra Sharma*	<i>In Silico</i> 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*	<i>Cissampelos pareira</i> L.: A Review of its Traditional Uses, Phytochemistry, and Pharmacology.	Journal of Ethnopharmacology , 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 <i>Trillium govanianum</i> Wall. ex D.Don for the Control of Diamondback moth (<i>Plutella xylostella</i> L.) and Aphid (<i>Aphis craccivora</i> Koch)	Pest Management Science , 2021, 77, 956-962.
110	Patil Shivprasad Suresh, Prithvi Pal Singh, Yogendra S. Padwad, Upendra Sharma*	Steroidal saponins from <i>Trillium govanianum</i> as α -Amylase, α -Glucosidase, and Dipeptidyl Peptidase IV Inhibitory Agents. (One of the Most Read Article)	Journal of Pharmacy and Pharmacology , 2021, 73, 487-495.
109	Shivani Puri, Sarthak Sharma, Avnesh Kumari, Mohit Sharma* Upendra Sharma* 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,	Ru(II)-Catalyzed Chemoselective	The Journal of Organic

	Rakesh Kumar and Upendra Sharma*	C(sp ³)-H Monoarylation of 8-Methyl Quinolines with Arylboronic Acids. <i>(One of the Most Read Article)</i>	<i>Chemistry</i> , 2020, 85, 11844-11855.
105	Vinod Bhatt, Surekha Kumari, Pooja Upadhyay, Prakhar Agrawal, Anmol, Dinkar Sahal* Upendra Sharma*	Chemical Profiling and Quantification of Potential Active Constituents Responsible for The Antiplasmodial Activity of <i>Cissampelos pareira</i> .	<i>Journal of Ethanopharmacology</i> , 2020, 262, 113185.
104	Dinkar Sahal* and Upendra Sharma	<i>Cissampelos pareira's</i> Tale from the Benevolent World of Medicinal Plants. <i>(Expert Commentary)</i>	<i>Research Journal of Plant Pathology</i> , 2020, 3, 1-2.
103	Ankit K. Dhiman, Ankita Thakur, Rakesh Kumar and Upendra Sharma*	Recent Advances in Rhodium-Catalyzed Selective C-H Bond Functionalization of Quinolines <i>(This article also appears in: Hot Topic: C-H Activation)</i> https://onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)2193-5815.hottopic-c-h-activation	<i>Asian Journal of Organic Chemistry</i> , 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.	<i>The Journal of Organic Chemistry</i> , 2020, 85, 9244-9254.
101	Rakesh Kumar, Diksha Parmar, Shiv Shankar Gupta, Devesh Chandra, Ankit Kumar Dhiman and Upendra Sharma*	Cp*Rh(III)-Catalyzed Sterically Controlled C(sp ³)-H Selective Mono- and Diarylation of 8-Methylquinolines with Organoborons. <i>(Published as Hot Paper)</i>	<i>Chemistry-A European Journal</i> , 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 <i>Trillium govanianum</i> by UHPLC-QTOF-MS/MS and UHPLC-ELSD.	<i>Phytochemical Analysis</i> , 2020, 31, 861-873.
99	Shiv Shankar Gupta, Surekha Kumari, Inder Kumar and Upendra Sharma*	Eco-friendly and Sustainable Synthetic Approaches for Biologically Significant Fused N-Heterocycles. <i>(Invited Article)</i>	<i>Chemistry of Heterocyclic Compounds</i> , 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.	<i>Organic Letters</i> , 2020, 22, 305-309.
97	Rohit Kumar, Rakesh Kumar, Diksha Parmar, Shiv Shankar	Ru(II)/ Rh(III)-Catalyzed C(sp ³)-C(sp ³) Bond Formation through	<i>The Journal of Organic Chemistry</i> , 2020, 85,

	Gupta and Upendra Sharma*	C(sp ³)-H Activation: Selective Linear Alkylation of 8-Methylquinolines and Ketoximes with Olefins.	1181-1192.
96	Shiv Shankar Gupta, Rakesh Kumar and Upendra Sharma*	Regioselective Arylation of Quinoline <i>N</i> -Oxides (C8), Indolines (C7) and <i>N</i> -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- <i>O</i> - β -D-xylopyranoside, a new narciclasine glycoside from <i>Zephyranthes minuta</i> .	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 <i>Cassia fistula</i> L. Leaves.	Antioxidants , 2020, 9, 173.
93	Deepali Katoch*, Dharmesh Kumar, Yogendra S Padwad, Bikram Singh,* and Upendra Sharma*	Pseudolycorine <i>N</i> -Oxide, A New <i>N</i> -Oxide from <i>Narcissus tazetta</i> .	Natural Product Research , 2020, 34, 2051-2058.
92	Deepali Katoch,* and Upendra Sharma*	Simultaneous Quantification and Identification of Amaryllidaceae Alkaloids in <i>Narcissus tazetta</i> 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*	Rh(III)-Catalyzed C(8)-H Activation of Quinoline <i>N</i> -oxides: Regioselective C-Br and C-N Bond Formation (Part of Special Issue: C-H Bond Functionalization)	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 <i>N</i> -oxides, Aryldiazonium salts and Acetonitrile.	The Journal of Organic Chemistry , 2019, 84, 6962-6969.
89	Devesh Chandra, Ankit Kumar Dhiman, Rakesh Kumar, Upendra	Microwave-Assisted Metal-Free Rapid Synthesis of C4-Arylated	European Journal of Organic Chemistry ,

	Sharma*	Quinolines <i>via</i> Povarov Type Multicomponent Reaction.	2019, 2019, 2753-2758.
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4. 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
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. 69, Chapter; pp; accepted.
6. 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.
7. **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.
8. 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.
An eco-friendly process for isolation of fiber from plant species and product thereof.
Ref. No.: 202011034404
Date of Filing: 11-08-2020.

Granted: 02

1. B. Singh, S. Chattergi, N. Kumar and **U. Sharma**.
Benzothiazole Substituted Phthalimide Analogues as Potential Angiogenesis Inhibitors. Indian Patent No.: 318680
Date of Grant: 22-08-2019.
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)

2021

1. **"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.
2. **"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

3. **"Utilizing Plant Traditional Knowledge for the Discovery of Bioactives"** in Young Scientist Conference, IISF-2020 on 22-25th Decemebr, 2020.
4. **"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.
5. **"Regioselective C(sp³)-Methylation, Alkylolation 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

6. **"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.
7. **"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.
8. **"Innovative Approaches for the Synthesis of Antimalarial Quinolines"** in Natural Product Based Therapeutics in Drug Development, NIPER-Raebareli, Lucknow, 14-15 Feb. 2019.

2018

9. **"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.
10. **"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

11. **"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.
12. **"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.

13. **"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.
14. **"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.
15. **"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

16. **"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 2019

1. 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.
2. 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*)
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.

9. 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

10. 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.
11. 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.
12. 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-IIT, Tarnaka Hyderabad-500007 on 2017.
13. 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-IIT, Tarnaka Hyderabad-500007 on 2017.
14. 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

15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.

2015 and earlier

21. **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)
22. 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).
23. **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)
24. **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).
25. **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).
26. **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).
27. V. Kumar, **U. Sharma**, P. K. Verma, C. Singh, N. Kumar, and B. Singh. Silica Supported Perchloric Acid ($\text{H}_3\text{BO}_4\text{-SiO}_2$): 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).
28. 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)