CURRICULAM VITAE

UPENDRA SHARMA, PhD

Senior Scientist Chemical Technology Division CSIR-Institute of Himalayan Bioresource Technology Palampur-176 061, Himachal Pradesh, India **E-mail**: <u>upendra@ihbt.res.in</u>; <u>upendraihbt@gmail.com</u> Webpage: <u>https://www.ihbt.res.in/en/staff/scientific-staff?chronoform=sctdetail&task=detail&id=41</u>



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

Postdoctral 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

- One Year Advance Promotion *i.e.* Merit Promotion from Scientist to Senior Scientist
- 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, 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 rogress	Duration	Role
1	Exploration of Himalayan Plants for Novel Antimalarial Agents: Characterization of potential molecules (Phase-II).	CSIR/Agri Nutri Biotech Mission	2020-2023	PI
2	Next generation genomics for genetaic improvement of <i>Stevia rebaudiana</i> .	CSIR/Agri Nutri Biotech Mission	2020-2023	Co-PI
3	High throughout genotyping to expedite the genetic characterization and dissection of important agronomic traits of tea.	DST	2018-2021	Co-PI
4	Development of the natural glycoside (stevioside/rebaudioside A) based drug delivery nano-probe-carrier for cancer therapeutics.	CSIR-EMR	2020-2023	Co-PI
5	Value Addition of Aromatic Crop (Aroma Mission-Phase-II)	CSIR/Aroma Mission	2020-2023	Co-PI
	Comp	leted		
6	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	PI
	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	PI
7	Exploration of Himalayan Plants for Novel Antimalarial Agents: Characterization of potential molecules.	CSIR/Agri Nutri Biotech Mission	2019-2020	PI
8	Phytopharmaceutical development from as <i>Cissampelos pareira</i> per regulatory guidelines of AYUSH.	CSIR/Phytopharma Mission	2017-2020	PI
9	Technology packages for production of GMP grade medicinal plant extracts of <i>Ginkgo biloba</i> .	CSIR/Phytopharma Mission	2017-2020	PI
10	Phytochemical investigation of selected high value rare, endangered and threatened (RET) medicinal Plants.	CSIR/Phytopharma Mission	2017-2020	Co-PI

11	Nutraceutical formulation for boosting bone and cartilage health.	CSIR/Neutraceutical Mission	2018-2020	Co-PI
12	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-PI
13	Identification of improved clone(s) of <i>Stevia rebaudiana</i> (Bertoni).	CSIR/Agri Nutri BiotechMission	2018-2020	Co-PI
14	Development of process for converting raw cellulosic biomass into textile fiber and nanocellulose.	CSIR/Agri Nutri BiotechMission	2018-2020	Co-PI

DISSERTATIONS SUPERVISED

(a) **Ph.D**:

Awarded/Submitted: 5

Current: 17

Pursuing	Awarded
1. Mr. Ankit Kumar Dhiman	1. Mr. Inder Kumar submitted thesis entitled
2. Mr. Patil Shiv Prasad Suresh	"Development of Photo-catalytic Methodologies for
3. Mr. Devesh Chandra	the C-C and C-Heteroatom Bond Formation" on 3rd
4. Ms. Diksha Parmar	May, 2021.
5. Ms. Surekha Kumari	2. Dr. Rakesh Kumar completed thesis entitled "Synthesis
6. Mr. Sumit Kumar	and Derivatization of N-Heterocyclic Compounds
7. Ms. Manisha Bhardwaj	through C-H Bond Functionalization" on 5th February,
8. Mr. Anmol	2020.
9. Ms. Ankita Thakur	3. Dr. Ritika Sharma completed thesis entitled "Synthesis
10. Mr. Rohit Kumar	of Quinoline Derivatives via Catalytic Remote C-H
11. Mr. Shiv Kumar	Activation" on 26 th July, 2019.
12. Mr. Prithavi Pal Singh	4. Dr. Deepali Katoch completed Thesis entitled
13. Er. Mohit Sharma	"Phytochemical and pharmacological investigation of
14. Ms. Shivani Puri	Zephyranthes grandiflora and Narcissus tazetta for
15. Mr. Raman Singh	Amaryllidaceae alkaloids and their synthetic
16. Ms. Shivani	modification" 19 th July, 2019.
17. Mr. Mahak Sharma	5. Dr. Vinod Bhatt completed thesis entitled
	"Phytochemical and Synergy-Directed Biological
	Studies of <i>Zanthoxylum</i> Species" on 15 th Feb, 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 *Hildegardia barteri* (Mast. Kosterm) for Production of Selected Bio-Products" in 24th 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 Gurgoan, 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 Gurgoan, Haryana, completed two-month training entitled "Functionalization of Quinoline and their characterization" in March-April, 2018.
- 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 Gurgoan, Haryana, completed one-month training entitled "Phytochemical Investigation of *Cissampelos pareira*" in July, 2017.
- 15. 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.
- 16. Mr. Sachin, Amity University Gurgoan, 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 of Asian Journal of Organic Chemistry (2020-)

RESOURCE PERSON FOR JOURNALS

Synthetic 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 Synthesis

Natural Product Chemistry

Journal of Natural Products 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

PhD Thesis Examiner

PhD Thesis Evaluated till date: 7 Viva Exam Taken: 3

PUBLICATIONS

Total: **119**

Citation: **>2935**

h-index: **28**

i-10 index: **64**

After Independent Research Lab: 73

Book Chapter: 3

Invited/Oral Presentations: 15

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

Paper presented in conferences: 28

S. No.	NAMES OF ALL THE AUTHORS	TITLE OF THE PAPER	NAME OF THE JOURNAL,
119	Datil Chiumracad Curach	Storoidal Sanoning of Trillium	VOLUME, YEAR AND PAGE
119	Patil Shivprasad Suresh,	Steroidal Saponins of Trillium	Journal of Biocatalysis and Agricultural
	Prithvi Pal Singh, Anamika	govanianum: Quality Control,	Biotechnology, 2021,
	Sharma, Yogendra S	Pharmacokinetic Analysis, and	accepted.
	Padwad,* and	Anti-inflammatory Activity	
	Upendra Sharma*		
118	Ankit Kumar Dhiman, Rohit	Catalyst and Additive-Free	Synthesis, 2021,
	Kumar, and Upendra	Synthesis of	accepted.
	Sharma*	Fluoroalkoxyquinolines.	
117	Ankita Thakur, Ankit	Rh(III)-Catalyzed	The Journal of Organic
	Kumar Dhiman, Sumit,	Regioselective C8-Alkylation of	Chemistry, 2021, 86,
	Rakesh Kumar, and	Quinoline <i>N</i> -Oxides with	6612-6621.
	Upendra Sharma*	Maleimides and Acrylates.	
116	Inder Kumar, Rakesh	C70 Fullerene Catalyzed	The Journal of Organic
	Kumar, Shiv Shankar	Photo-induced Aerobic	Chemistry, 2021, 86,
	Gupta, and	Oxidation of Benzylamines to	6449-6457.
	Upendra Sharma*	Imines and Aldehydes.	
115	Sumit, Devesh Chandra,	Merging Kinetic Resolution	Organic &
	and Upendra Sharma*	with C-H Activation: An	Biomolecular
		Efficient Approach for	Chemistry, 2021, 19,
		Enantioselective Synthesis.	4014-4026.
114	Shiv Shankar Gupta,	In Silico Approach for	Journal of Molecular
	Ashwani Kumar, Ravi	Identifying Natural Lead	Graphics and
	Shankar,* Upendra	Molecules Against SARS-COV-	<i>Modelling,</i> 2021, <i>106</i> ,
	Sharma*	2.	107916.
113	Surekha Kumari, Anmol,	Cissampelos pareira L.: A	Journal of
	Vinod Bhatt, Patil	Review of its Traditional Uses,	Ethanopharmacology,
	Shivprasad Suresh, and	Phytochemistry, and	2021, 274, 113850.
	Upendra Sharma*	Pharmacology.	
112	Devesh Chandra, Ankit	Alkylation, Alkenylation, and	Catalysis Reviews:
	Kumar Dhiman, Diksha	Alkynylation of Heterocyclic	Science and
	Parmar and Upendra	Compounds through Group 9	Engineering, 2020,

	Sharma*	(Co, Rh, Ir) Metal-Catalyzed C- H Activation.	doi.org/10.1080/0161 4940.2020.1839849.
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</i> <i>govanianum</i> Wall. ex D. Don for the control of diamondback moth (Plutella xylostella L.) and aphid (Aphis craccivora Koch)	<i>Pest Management</i> <i>Science</i> , 2021, <i>77</i> , 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)	<i>Journal of Pharmacy and Pharmacology,</i> 2021, <i>73</i> , 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/s1339 9-020-01119-9.
108	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 <i>β</i> - norbenzomorphan Framework.	Journal of ACS Sustainable Chemistry & Engineering, 2020, 8, 12902-12910.
107	Diksha Parmar, Rohit Kumar, Rakesh Kumar and Upendra Sharma*	Ru(II)-Catalyzed Chemoselective C(sp3)-H Monoarylation of 8-Methyl Quinolines with Arylboronic Acids. (One of the Most Read Article)	<i>The Journal of Organic</i> <i>Chemistry</i> , 2020, <i>85</i> , 11844-11855.
106	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> .	Journal of Ethanopharmacology, 2020, 262, 113185.
105	Dinkar Sahal* and	Cissampelos pareira's tale	Research Journal of Plant Pathology,

	Upendra Sharma	from the benevolent world of	2020, 3, 1-2.
	opendra Sharma	medicinal plants	DOI: 10.36648/plant-
		(Expert Commentry)	pathology.3.2.2
104	Ankit K. Dhiman, Ankita	Recent Advances in Rhodium-	Asian Journal of
104	Thakur, Rakesh Kumar and	Catalyzed Selective C-H Bond	Organic Chemistry,
	Upendra Sharma*	Functionalization of	2020, <i>9</i> , 1502-1518.
	Openula Sharma	Quinolines	
		(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)	
103	Ankit Kumar Dhiman,	Co(III)-Catalyzed C-H	<i>The Journal of Organic</i> <i>Chemistry</i> , 2020, 85,
	Ankita Thakur, Inder	Amidation of Nitrogen	9244-9254.
	Kumar, Rakesh Kumar and	Containing Heterocycles with	5244 5254.
	Upendra Sharma*	Dioxazolones under Mild	
		Condition.	
102	Rakesh Kumar, Diksha	Cp*Rh(III)-Catalyzed Sterically	Chemistry-A European
	Parmar, Shiv Shankar	Controlled C(sp ³)-H Selective	Journal, 2020, 26, 4396-4402.
	Gupta, Devesh Chandra,	Mono- and Diarylation of 8-	4550-4402.
	Ankit Kumar Dhiman and	Methylquinolines with	
	Upendra Sharma*	Organoborons.	
		(Published as Hot Paper)	
101	Prithvi Pal Singh, Prateek	Qualitative and quantitative	Phytochemical
	Singh Bora, Patil Shivprasad Suresh, Vinod	determination of steroidal	Analysis, 2020, 31, 861-873.
	Bhatt, and Upendra	saponins in Trillium	801-875.
	Sharma*	govanianum by UHPLC-QTOF-	
		MS/MS and UHPLC-ELSD.	
100	Prithvi Pal Singh, Patil	Govanoside B, A New Steroidal	Natural Product
	Shivprasad Suresh, Prateek Singh Bora, Vinod Bhatt,	Saponin from Rhizomes of	<i>Research,</i> 2020, doi:10.1080/14786419
	and Upendra Sharma*	Trillium govanianum.	.2020.1761360.
99	Shiv Shankar Gupta,	Eco-friendly and Sustainable	Chemistry of
	Surekha Kumari, Inder	Synthetic Approaches for	Heterocyclic
	Kumar and Upendra	Biologically Significant Fused	Compounds,
	Sharma*	N-Heterocycles.	2020 <i>, 56,</i> 433-444.
		(Invited Article)	
98	Rakesh Kumar, Ritika	Cp*Rh(III)-Catalysed	Organic Letters, 2020,
	Sharma, Rohit Kumar and	Regioselective C(sp ³)-H	<i>22,</i> 305-309.
	Upendra Sharma*	Methylation of 8-	
		Methylquinolines with	
1			

Kumar, Diksha Parmar, Shiv Shankar Gupta and	C(sp ³) Bond Formation through C(sp ³)-H Activation:	<i>Chemistry</i> , 2020, <i>85</i> , 1181-1192.
Shiv Shankar Gupta and	through C(sn ³)-H Activation:	1181-1192
·	I UII OUGII CISP J-TI ACLIVATION.	
Upendra Sharma*	Selective Linear Alkylation of	
	8-Methylquinolines and	
	Ketoximes with Olefins.	
Shiv Shankar Gupta,	Regioselective Arylation of	ACS Omega,
Rakesh Kumar and	Quinoline <i>N</i> -Oxides (C8),	2020, 5, 904-913.
Upendra Sharma*	Indolines (C7) and N-tert-	
	Butylbenzamide with	
	Arylboronic Acids.	
Deepali Katoch*,	Narciclasine-4-O-6-D-	Natural Product
Dharmesh Kumar,	xylopyranoside, a new	<i>Research,</i> 2020, 34,
Yogendra S Padwad,	narciclasine glycoside from	233-240.
- .	Zephyranthes minuta.	
•	Antioxidant Antiproliferative	Antioxidants, 2020, 9,
	•	173.
· •		doi:10.3390/antiox902
		0173
· •		
-	Pseudolycorine <i>N</i> -oxide, a new	Natural Product
Dharmesh Kumar,	N-oxide from Narcissus	Research, 2020, 34,
Yogendra S Padwad,	tazetta.	2051-2058.
- .		
	Simultaneous Quantification	lournal of
•		Journal of Pharmaceutical and
openura Sharma		Biomedical Analysis,
		2019, 175, 112750.
	·	
Ankit Kumar Dhiman, Shiy	, ,	The Journal of Organic
		Chemistry, 2019, 84,
• •		12871-12880.
and Upendra Sharma*	Br and C-N Bond Formation	
and Upendra Sharma*		
	Rakesh Kumar and Upendra Sharma* Deepali Katoch*, Dharmesh Kumar, Yogendra S Padwad, Bikram Singh,* Upendra Sharma* Sandeep Kaur, Ajay Kumar, Sharad Thakur, Kapil Kumar, Ritika Sharma, Sharad Thakur, Kapil Kumar, Ritika Sharma, Sharet Sharma, Prabhpreet Singh, Upendra Sharma, Subodh Kumar, Marco Landi *, Marián Brestič, Satwinderjeet Kaur * Deepali Katoch*, Dharmesh Kumar,	Shiv Shankar Gupta, Rakesh Kumar andRegioselective Arylation of Quinoline N-Oxides (C8), Indolines (C7) and N-tert- Butylbenzamide with Arylboronic Acids.Deepali Katoch*, Dharmesh Kumar, Yogendra S Padwad, Bikram Singh,* Upendra Sharma*Narciclasine-4-O-B-D- xylopyranoside, a new narciclasine glycoside from Zephyranthes minuta.Sandeep Kaur, Ajay Kumar, Sharad Thakur, Kapil Kumar, Ritika Sharma, Subodh Kumar, Marco Landi *, Marián Brestič, Satwinderjeet Kaur *Antioxidant, Antiproliferative and Apoptosis-Inducing Efficacy of Fractions from Cassia fistula L. Leaves.Deepali Katoch*, Deepali Katoch*, Darmesh Kumar, Yogendra S Padwad, Bikram Singh,* and Upendra Sharma*Pseudolycorine N-oxide, a new N-oxide from Narcissus tazetta.Deepali Katoch*, 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.Ankit Kumar Dhiman, Shiv Shankar Gupta, RitikaRh(III)-Catalyzed C(8)-H Activation of Quinoline N-

		C-H Bond Functionalization)	
90	Ankit Kumar Dhiman,	Catalyst-Free Synthesis of 2-	The Journal of Organic
	Devesh Chandra, Rakesh	Anilinoquinolines and 3-	<i>Chemistry</i> , 2019, <i>84</i> ,
	Kumar and Upendra	Hydroxyquinolines via Three-	6962-6969.
	Sharma*	Component Reaction of	
		Quinoline <i>N</i> -oxides,	
		Aryldiazonium salts and	
		Acetonitrile.	
89	Devesh Chandra, Ankit	Microwave-Assisted Metal-	European Journal of
	Kumar Dhiman, Rakesh	Free Rapid Synthesis of C4-	Organic Chemistry,
	Kumar, Upendra Sharma*	Arylated Quinolines via	2019, 2019, 2753-
		Povarov Type Multicomponent	2758.
		Reaction.	
88	Meenakshi Thakur, Shruti	Study on effect of pruning	Journal of Applied
	Sharma, Upendra Sharma,	interval on growth, yield and	Research on Medicinal
	Rakesh Kumar	quality of scented rose (Rosa	and Aromatic Plants,
		damascena Mill.) varieties	2019 <i>, 13,</i> 100202
		under acidic conditions of	
		western Himalayas	
87	Ritika Sharma, Rakesh	Rh/O ₂ -Catalyzed C8	The Journal of Organic
	Kumar, Upendra Sharma*	Olefination of Quinoline N-	<i>Chemistry</i> , 2019, 84,
		oxides with Activated and	2786-2797.
		Unactivated Olefins.	
86	Rakesh Kumar, Rohit	Cp*Co(III)-Catalyzed Alkylation	The Journal of Organic
	Kumar, Devesh Chandra,	of Primary and Secondary	<i>Chemistry</i> , 2019, 84,
	Upendra Sharma*	C(sp ³)-H Bonds of 8-	1542-1552.
		Alkylquinolines with	
		Maleimides.	
85	Rakesh Kumar, Ritika	Evaluation of antiplasmodial	Medicinal Chemistry,
	Sharma, Inder Kumar,	potential of C-2 and C-8	2019,
	Pooja Upadhyay, Ankit	modified quinolines: in vitro	<i>15,</i> 790-800.
	Kumar Dhiman, Rohit Kumar, Rakesh Kumar,	and in silico study.	
	Rituraj Purohit,* Dinkar		
	Sahal* and Upendra		
	Sharma*		
84	Ritika Sharma, Rakesh	Rh(III)-Catalyzed C(8)-H	The Journal of Organic
	Kumar, Rohit Kumar, Pooja	Functionalization of	Chemistry, 2018, 83,

	Upadhyay, Dinkar Sahal, Upendra Sharma*	Quinolines via Simultaneous C- C and C-O Bond Formation: Direct Synthesis of Quinoline Derivatives with Antiplasmodial Potential.	12702-12710.
83	Rakesh Kumar, Sandeep Chaudhary, Rohit Kumar, Pooja Upadhyay, Dinkar Sahal, Upendra Sharma*	Catalyst and Additive-free Diastereoselective 1,3-Dipolar Cycloaddition of Quinolinium Imides with Olefins, Maleimides and Benzynes: Direct Access to Fused <i>N,N'</i> - Heterocycles with Promising Activity against Drug Resistant Malaria Parasite.	The Journal of Organic Chemistry, 2018, 83, 11552-11570.
82	Ritika Sharma, and Upendra Sharma*	Remote C-H Bond Activation/Transformations: A Continuous Growing Synthetic Tool; Part II.	Catalysis Reviews: Science and Engineering, 2018, 60, 497-565.
81	Inder Kumar, Ritika Sharma, Rakesh Kumar, Rakesh Kumar, and Upendra Sharma*	C70 Fullerene-Catalyzed Metal-Free Photocatalytic ipso-Hydroxylation of Aryl Boronic Acids: Synthesis of Phenols.	<i>Advanced Synthesis & Catalysis,</i> 2018, <i>360,</i> 2013-2019.
80	Inder Kumar, Rakesh Kumar and Upendra Sharma*	RecentAdvancesinRegioselectiveSynthesisofIndolesviaC-HActivation/Functionalization.	<i>Synthesis,</i> 2018, <i>50,</i> 2655-2677.
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4	Upendra Sharma*	Silica Supported Perchloric Acid (HClO ₄ -SiO ₂): A Versatile Reagent in Organic Synthesis.	<i>Synlett</i> , No. 2009, <i>19</i> , 3219.
3	Upendra Sharma , Rikki Saini, Bobita, Neeraj	Steroidal Saponins from Asparagus racemosus.	Chemical & Pharmaceutical

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BOOK CHAPTER

- 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.
- **2.** 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.
- **3.** 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

 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.

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- 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.
- D. Maiti, U. Sharma, N. Tagoti.
 Palladium-Catalyzed Synthesis of Benzofurans and Coumarins from Phenols and Olefins.
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 Date of Grant: 13-07-2018.

PAPER PRESENTED IN CONFERENCE

Invited/Oral Presentations (National/International)

2021

 "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 on 5-6 February, 2021.

2020

- **2.** "Utilizing Plant Traditional Knowledge for the Discovery of Bioactives" in Young Scientist Conference, IISF-2020 on 22-25th Decemebr, 2020.
- 3. "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.
- 4. "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

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

2018

- 8. "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.
- **9.** "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

- **10. "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.
- **11. "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.
- 12. "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.
- 13. "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.
- 14. "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

15. "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 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.
- 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.
- 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.
- 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.
- 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.
- 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

- A. K. Dhiman, S. Chaudhary, R. Kumare, R. Kumar and U. Sharma.* Synthesis of 2substituted-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.
- 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-IICT, 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-IICT, 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)

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- 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.
- 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.
- 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.

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- 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.
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- 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).
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- 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 (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).
- 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)