

Dr. DINESH KUMAR

Registered Pharmacist (India)
(H.P- Reg. No.: 35706)

Pr. Scientist, Test Facility Manager, Nodal scientist for technical services & Asst. Professor (AcSIR), Chemical Technology Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Post Box No. 6, Himachal Pradesh-176061, India

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Date of Birth: 04-05-1982

Objective

To serve as a Drug discovery consultant/Research scientist and teaching faculty at a R & D of repute to enhance my research career and teaching skills in the field of Pharmaceutical Sciences and natural plant products.

Professional Qualifications

PDF (2013) Department of pharmaceutical sciences, Tshwane University of Technology, Arcadia campus, Pretoria-0001, South Africa.

Ph.D. (2012) Department of Pharmaceutical sciences, University of Kashmir, Srinagar-190006, India.

Thesis Title: Pharmacognostical Standardization, Phytochemical Investigations and Anti-Anxiety Studies on some Medicinal plants of Kashmir Valley.

M.Pharm. (2009) Dr. D.Y. Patil IPSR, Pune-18, University of Pune, Maharashtra, India.

Thesis Title: Antiasthmatic activity of *Ailanthus excelsa* Roxb (68.95%).

B.Pharm. (2006) Shivalik college of Pharmacy, Naya-Nangal, Punjab, Punjab Technical University, Jalandhar, India.

Project Title: Study of ethanomedicinal herbal drugs from Himachal Pradesh (68.76%).

D.Pharm. (2002) SAC College of Pharmacy, Balgangadharnagar, Distt. Mandya, Karnataka, ER-1991, Government of Karnataka, Drug control Department, India (70%).

Memberships and Awards

- Member of scientific panel for functional foods, Nutraceuticals, Dietetic products and other Similar Products, FSSAI-India (2020-2023).
- Member and reporter of working group on method of analysis for ingredients and products covered under nutraceutical regulations, FSSAI-India (2020-2022).
- Member of Italo-Latin American Society of Ethnomedicine (137089223602301)
- Life Member of Vigyan Bharti (Vijnana Bharti), Nagpur, India (Serial Number: 283)
- Member of Society of ethnopharmacology, India (SFE/20/I-1636)
- Ultra international Pvt. Ltd travel and registration grant for international conference at Cyprus, 2019.
- NASIC-IDB and Bazimalam Vakif University, Travelling Grant as NMR expert in workshop at Bazimalam Vakif University, Istanbul-Turkey 2017.
- Start Up Research Grant (Young Scientists); DST Fast track- SERB, New Delhi, India, 2015-2018.
- INSA-CSIR-BRNS/DAE-CICS, India, Joint Traveling Grant for presenting a paper in international conference abroad, 2012 (Not availed).
- Qualified Screening test, Himachal Pradesh Public service commission, India 13-6-2012.
- MPF, Fellowship from University Grant Commission-New Delhi-India, 1 May 2010 – 31 Jan 2013.
- CSIR-India, Traveling Grant for presenting a paper in international conference abroad, 2011.
- University of Kashmir, Srinagar-190006, India, Special Traveling Grant for presenting a paper in international conference abroad, 2011.
- 1st prize and gold medal in debate held at IET Bhaddal, Punjab, 2005, India.
- CET 60th rank in Maharashtra state, India for M. Pharm, 2007.

WORK EXPERIENCE

Sr. Scientist Nov. 2017 to till date

Scientist Nov. 2013 to Nov. 2017

Postdoctoral Fellow Feb. 2013 to Nov. 2013

Tshwane University of Technology, Arcadia Campus, Pretoria, South Africa-0001.

Research consultant Rapture Biotech, India; 2012-2013

Research Associate May 2012 to Feb 2013

(Sr. Major Project Fellow)

Major Project Fellow (UGC-New Delhi, India): May 2010 to April 2012 (University of Kashmir)

Asst. Prof.: Rayat Institute of Pharmacy, Railmajra, SBS Nagar Punjab (India)
(Lecturer) Aug 2009 to April 2010.
Lecturer: Punjab College of Pharmacy, Ferozepur, Punjab (India)
June 2006 to Sep. 2007
Q.I.P (AICTE): S.B.S College of Pharmacy, Patti, Amritsar, Punjab.
Q.I.P. (AICTE Sponsored, 2006). - 14 days

GUIDE

Guided B. Pharm. Students: 02, M.Pharm student: 06, Msc: 10

Ph. D awarded: 03; **Ph. D ongoing:** 11 (supervisor); 02 (Co-Supervisor)

Country visited: Srilanka, South Africa, Switzerland, Turkey, N. Cyprus

<https://scholar.google.co.in/citations?user=HmO7BHgAAAAJ&hl=en>

Personal and research Information

Site <https://sites.google.com/site/drdineshkumarcsirihbt/home>

S.No	Name of project	Funding agency	Sanctioned budget (lacs)	Project duration (Dates)		Working as PI/ Co-PI/ Co-I
				From	to	
1.	Myocardial lipidomics and metabolomic fingerprinting of Crataegus oxyacantha by NMR, LC-MS/MS techniques to delineate its toxicity/safety in cardiac disorders	SERB-DST, New Delhi, India	18.00	20.03.2014	19.03.2018	PI
2.	Characterization and Consolidation of Hippophae Genetic Resources and Propagation of Elite Genotypes for Varietal Evaluation	DBT, New Delhi, India	48.50	2014	2017	PI
3	Development of herbal formulations from Seabuckthorn	DBT, New Delhi, India	358.76943	2017	2021	PI
4.	Ex-situ conservation and development of gene bank of four selected rare and threatened medicinal plants of cold desert region of Himachal Pradesh	HIMCOST E- Shimla	5.10	2018	2020	Co-PI
5.	Ex-situ conservation and development of gene bank of commercially important threatened medicinal plants in the high altitude areas, Himachal Pradesh	NMHS	70.713	2019	2023	PI member

In-house and sponsored Projects

Sl.No	Title of Project	Project Category	Agencies	Role
1.	Molecular Understanding and Utilization of Bio-resource for Valuable Products (NPCPD)	MLP0203 (Major Lab Project)	CSIR	Co-PI
2.	Conservation and sustainable resource generation of high altitude bioresources at CSIR – Centre for High Altitude Biology	NCP-MLP0145	CSIR	Co-PI
3.	Development of Anti Thrombin-Clot Specific Streptokinase (ACSSK) for Treatment of Acute Myocardial Infarction and Ischemic Stroke,	MLP-0153	CSIR	Team Member

4.	<u>Introduction of high value spice Saffron (Crocus sativus L.) in unexplored areas</u>	FTT-MLP0127	CSIR	Co-PI
5.	UAV based high resolution remote sensing for modernized and efficient cultivation practices of commercially important medicinal and aromatic crops.	FTT-MLP0139 (DroneAgri)	CSIR	Co-PI
6.	Bisoprospection Microbiome from Himalayan niches (NCP)	FTT-MLP0143	CSIR	Co-PI
7.	Non - Invasive technology for production of naphthoquinone pigments from Arnebia species on sustainable basis	FTT-MLP0144	CSIR	Co-PI
8.	Optimization of aeroponic and hydroponic conditions for increasing commercial crop productivity	FTT-MLP0151	CSIR	Co-PI
9.	Phyto-pharmaceutical Mission WP:03 and 04	HCP0010	CSIR	PI
10.	Nutraceuticals and Nutritionals: WP:06 Nutraceutical formulations based on plants for sleep disorders	HCP0019	CSIR	PI
11.	CSIR Aroma Mission	HCP0007	CSIR	Co-PI
12.	CSIR Integrated Skill Initiative Program: Analytical chemistry	NWP0100	CSIR	PI
Sponsored Projects				
13.	Training and analysis of sample	SSP 0061 (2017-2022)	AnalytiCSIR	PI
14.	Transfer of technology for making Herbal Soap at Nadaun as per technical know-how of CSIR-IHBT	SSP0114 (2020-2025)	TOT	PI
15.	Transfer of technology for making herbal incense cones and Herbal Soap	SSP-0121 (2020-2025)	TOT	PI
16.	Development of Hand Sanitizer	SSP-0122 (2020-2025)	TOT	Co-PI

Technology Transfers

Sr No.	Technology Transfer	Project no.	Year	Role	Industries
1.	Transfer of technology for making Herbal Soap	SSP0114 (2020-2025)	2019	PI	M/S Geo care, Baijnath, H.P.
2.	Transfer of technology for making herbal incense cones	SSP-0121 (2020-2025)	2019	PI	<ul style="list-style-type: none"> M/s. AB Scientific solutions, Palampur
3.	Transfer of technology for tea based Hand Sanitizer	SSP-0122 (2020-2025)	2019	Co-PI	<ul style="list-style-type: none"> M/s. AB Scientific solutions, Palampur M/s. Nature green Pvt. Ltd. H.P. M/s. Baijnath Pharmaceutical Pvt Ltd. M/S Sandeep Kumar & Co (Himvadiya), Nadaun, Hamirpur, H.P. M/S VL Care Health, Jamshedpur M/S Mount Leaf, Kangra, H.P.
4.	Transfer of technology for Herbal hand wash	SSP-0121 (2020-2025)	2019	PI	<ul style="list-style-type: none"> M/S Geo care, Baijnath, H.P.

Technical guidance / Counselling

- Training imparted > 1000s of students under Jigyasa programme
- Training imparted Under skill India programme (Analytical techniques)
- Training imparted to the Farmers, faculty members and researchers
- Training Imparted Technical assistant and students under CSIR funded projects and external funded projects

MOU's:

1. Agreement for Development of herbal products from seabuckthorn (CSIR-IHBT and DBT, 22-06-2018).
2. Agreement for Development of herbal products and ingredients with NANO TECH CHEMICAL BROTHERS P. LTD., Village Mangarh, P.O Kohara, Chandigarh Road Ludhiana-141112 (India) (CSIR-IHBT and NANO TECH CHEMICAL BROTHERS P. LTD., 27-02-2019).
3. Agreement for availing incubation facility under the chief minister start up scheme of directorate of industries, Himachal Pradesh (CSIR-IHBT and Dr. Ankita Rana-CM Start up): 27-07-2019).
4. Agreement for availing incubation facility under the chief minister start up scheme of directorate of industries, Himachal Pradesh (CSIR-IHBT and Sandeep Kumar-CM Start up): 27-07-2019).

Publications

1. Bhattacharyya P, Kumar S, Lalthafamkimi L, Sharma R, **Kumar D**, Singh D, Kumar S. Molecular and phytomedicinal stability of long term micropropagated *Malaxis acuminata*: An endangered terrestrial orchid of biopharmaceutical importance. **South African Journal of Botany**. 2023 Apr 1;155: 372-382. **IF: 3.31**
2. Kumar R, **Kumar D***. Comprehensive metabolomics and antioxidant activity of *Allium* species viz *Allium semenovii*, *A. sativum* and *A. cepa*: an important spice. **Food Research International**. 2023: 112584. **IF: 7.425**.
3. Walia S, Kumar P, **Kumar D***, Kumar R*. A preliminary study on suitability of growing ginseng (*Panax ginseng* Meyer) in the Western Himalayan region. **Plant Soil Environ**. 2023;69. **IF: 2.328**
4. Kumari V, Kumar D, Bhardwaj R, **Kumar D***. Metabolome analysis, nutrient and antioxidant potential of aerial and underground parts of *Ajuga parviflora* Benth. **Microchemical Journal**. 2023: 108451. **IF: 5.304**
5. Sood A, Thakur K, Joshi R, **Kumar D**, Warghat AR. Comparative quantification of dactylorhin among different wild tissues and in vitro cultures of *Dactylorhiza hatagirea* (D. Don), an endangered medicinal orchid of Western Himalayas. **South African Journal of Botany**. 2023; 153: 172-7. **IF: 3.31**
6. Shakeya P, Thakur R, Sharan H, Yadav N, Kumar M, Chauhan R, **Kumar D**, Kumar A, Singh S, Singh S*. GE biplot and regression based multi-environment investigations for higher yield and essential oil content in German chamomile (*Matricaria chamomilla* L.). **Industrial Crops & Products**. 2023, 193: 116145. **IF: 6.449**
7. Kumar D, Kumari V, **Kumar D***. Metabolite profiling, antidiabetic, and antioxidant potential of different tissues of *Trillium govanianum* Wall. ex D. Don. **South African Journal of Botany**. 2023: 23: 102-108. **IF: 3.31**
8. Rattan S, **Kumar D***, Warghat AR. The influence of phenylalanine feeding on cell growth, antioxidant activity, phenylpropanoids content, and yield in cell suspension culture of *Rhodiola imbricata* (Edgew.). **Plant Cell, Tissue and Organ Culture (PCTOC)**. 2022 Nov;151(2):347-59. **IF: 2.726**
9. Devi J, Kumar A, **Kumar D**, Bhushan S. Adventitious root cultures of *Arnebia euchroma*: A sustainable alternative for the production of natural pigments. **Industrial Crops and Products**. 2022 Nov 1;187: 115461. **IF: 6.449**
10. Kumari V, Joshi R, Chawla A, **Kumar D***. Metabolome analysis of *Dactylorhiza hatagirea* (D. Don) Soo reveals a significant antioxidant and nutritional potential of its tubers. **South African Journal of Botany**. 2022 Nov 1; 150:431-442. **IF:3.31**
11. Partap M, Rattan S, **Kumar D***, Warghat AR. Bioprocess development for enhancing cell biomass, differential picrosides accumulation, and gene expression profiling at shake flask levels in suspension cultures of *Picrorhiza kurroa*. **Industrial Crops and Products**. 2022 Nov 1;187: 115311. **IF: 6.449**
12. Bhattacharyya P, Lalthafamkimi L, Sharma T, **Kumar D**, Kumar A, Kumar S. Metabolic and tissue-specific expression profiling in micropropagated plants of *Malaxis acuminata*: An endangered medicinal orchid. **Plant Cell, Tissue and Organ Culture (PCTOC)**. 2022 Oct 7:1-5. **IF: 2.726**
13. Yadav N, Shakya P, Kumar A, Gautam RD, Chauhan R, **Kumar D**, Kumar A, Singh S, Singh S. Investigation on pollination approaches, reproductive biology and essential oil variation during floral development in German chamomile (*Matricaria chamomilla* L.). **Scientific Reports**. 2022;12(1):1-3. **IF: 4.996**

14. Partap M, Kumar P, Kumar P, **Kumar D***, Warghat AR. Growth kinetics, metabolites production and expression profiling of picosides biosynthetic pathway genes in friable callus culture of *Picrorhiza kurroa* Royle ex Benth. **Applied Biochemistry and Biotechnology**. 2020 Dec;192(4):1298-317. **IF: 3.094**
15. Sharma R, **Kumar D***. Polyphenol Encapsulates from the Waste Biomass of *C. sinensis* and Their Simulated Oral, Gastric, and Intestinal Stability Studies: Nutraceutical Application. **ACS Food Sci. Technol.** 2022, 2, 8, 1257–1265. **IF:**
16. Kumari A, **Kumar D***, Gulati A, Maurya SK. Mechanistic studies on polyphenol rich fractions of Kangra tea by HPTLC and NMR for their antioxidant activities. **Journal of Food Science and Technology**. 2022;59 (7): 2751-2763. **IF: 3.117**
17. Kaundal R, Kumar M, Kumar S, Singh D, **Kumar D***. Polyphenolic Profiling, Antioxidant, and Antimicrobial Activities Revealed the Quality and Adaptive Behavior of *Viola Species*, a Dietary Spice in the Himalayas. **Molecules**. 2022 Jan;27(12): 3867. **IF: 4.927**
18. Partap M, Chhimwal J, Kumar P, **Kumar D***, Padwad Y, Warghat AR. Growth dynamics and differential accumulation of picosides and its precursor metabolites in callus cell lines of *Picrorhiza kurroa* with distinct anti-steatotic potential. **Process Biochemistry**. 2022 Jun 6. **IF: 4.885**
19. Sinha K, Kumar S, Rawat B, Singh R, Purohit R, **Kumar D***, Padwad Y. Kutkin, Iridoid glycosides enriched fraction of *Picrorrhiza kurroa* promotes insulin sensitivity and enhances glucose uptake by activating PI3K/Akt signaling in 3T3-L1 adipocytes. **Phytomedicine**. 2022 May 25:154204. **IF: 6.656**
20. Partap M, Kumar P, Kumar P, Pal PK, **Kumar D**, Warghat AR, Kumar S. Fruit derived callus and cell suspension culture as promising alternative sources for mogrosides production in *Siraitia grosvenorii* (Swingle) C. Jeffrey: a zero-caloric natural sweetener. **Journal of Food Composition and Analysis**. 2022 May 1; 108: 104450. **IF: 4.52**
21. Joshi R, Sharma S, **Kumar D***. Advances of Ion Mobility Platform for Plant Metabolomics. **Critical Reviews in Analytical Chemistry**. 2022 Apr 26:1-7. **IF: 5.686**
22. Kumar A, Joshi R, Vasishth A, Guleria V, **Kumar D***. UHPLC-QTOF-IMS-Based Metabolite Fingerprinting of Underutilized *Cordia myxa* Fruits and Leaves: A Nutraceutical Source. **ACS Food Science & Technology**. 2022 Apr 20;2(5):793-807. **IF:**
23. Sharma A, Tirpude NV, Bhardwaj N, **Kumar D**, Padwad Y. *Berberis lycium* fruit extract and its phytoconstituents berberine and rutin mitigate collagen–CFA-induced arthritis (CIA) via improving GSK3 β /STAT/Akt/MAPKs/NF- κ B signaling axis mediated oxi-inflammation and joint articular damage in murine model. **Inflammopharmacology**. 2022 Apr;30(2):655-66. **IF: 5.093**
24. Sharma R, Kapoor S, Padwad Y, **Kumar D***. GC-MS Based Profiling, Antimicrobial Activity and Cytotoxicity Studies of *Camellia sinensis* (L.) O. Kuntze Flower Extract. **Journal of Biologically Active Products from Nature**. 2022 Mar 4;12(2):137-45.
25. Rawat B, Bhatia P, Kumar M, Kumar P, **Kumar D***. Determination of Picosides, Phenolics and Cucurbitacins by Ultra-High Performance Liquid Chromatography-Diode Array Detection in *Picrorhiza kurroa* Royle Ex Benth. **Journal of Analytical Chemistry**. 2022 Jan;77(1):87-93. **IF: 1.237**
26. Sharma R, Kumar S, Kapoor S, Padwad Y, **Kumar D***. Nuclear magnetic resonance-based metabolomics and cytotoxicity (HT-29 and HCT-116 cell lines) studies insight the potential of less utilized parts of *Camellia sinensis* (Kangra tea). **Food Chemistry**. 2022 Mar 30; 373: 131561. **IF: 9.231**
27. Raj D, Sharma V, Upadhyaya A, Kumar N, Joshi R, Acharya V, **Kumar D**, Patial V. *Swertia purpurascens* Wall ethanolic extract mitigates hepatic fibrosis and restores hepatic hepcidin levels via inhibition of TGF β /SMAD/NF κ B signaling in rats. **Journal of Ethnopharmacology**. 2022 Feb 10; 284: 114741. **IF: 5.195**
28. Gautam M, Chahota RK, **Kumar D***. Nuclear magnetic resonance-based chemical signature and nutritional discrimination of *Macrotyloma uniflorum* accessions from the alpine Himalayas. **Journal of the Science of Food and Agriculture**. 2022 Jan 30;102(2):707-15. **IF: 4.125**
29. Kumar A, Chauhan S, Rattan S, Warghat AR, **Kumar D**, Bhargava B. In vitro propagation and phytochemical assessment of *Cymbidium aloifolium* (L.) Sw.: An orchid of pharma-horticultural importance. **South African Journal of Botany**. 2022 Jan 1;144: 261-9. **IF: 3.31**
30. Gehlot A, Chaudhary N, Devi J, Joshi R, **Kumar D**, Bhushan S. Induction and submerged cultivation of *Valeriana jatamansi* adventitious root cultures for production of valerenic acids and its derivatives. **Plant Cell, Tissue and Organ Culture (PCTOC)**. 2022 Feb;148(2):347-61. **IF: 2.726**
31. Rattan S, Kumar A, **Kumar D***, Warghat AR. Enhanced Production of Phenylethanoids Mediated Through Synergistic Approach of Precursor Feeding and Light Regime in Cell Suspension Culture of *Rhodiola imbricata* (Edgew.). **Applied Biochemistry and Biotechnology**. 2022 Mar 29:1-9. **IF: 3.094**
32. Kumar A, Gautam RD, Kumar R, Chauhan R, Kumar M, Singh S, **Kumar D**, Singh S, Kumar A. Floral studies of palmarosa [*Cymbopogon martinii* (Roxb.) W. Watson] and chemical insights during inflorescence development. **Industrial Crops and Products**. 2021 Nov 1; 171: 113960. **IF: 6.449**

33. Kumar D, Joshi R, Sharma A, Nadda G, **Kumar D***. A Comprehensive Search of the Primary and Secondary Metabolites and Radical Scavenging Potential of *Trillium govonianum* Wall. ex D. Don. **Chemistry & Biodiversity**. 2021 Oct;18(10):e2100300. **IF: 2.745**
34. Sharma S, Joshi R, **Kumar D***. Metabolomics insights and bioprospection of *Polygonatum verticillatum*: An important dietary medicinal herb of alpine Himalaya. **Food Research International**. 2021 Oct 1;148: 110619. **IF: 7.425**
35. Singh R, Bhardwaj VK, Sharma J, **Kumar D**, Purohit R. Identification of potential plant bioactive as SARS-CoV-2 Spike protein and human ACE2 fusion inhibitors. **Computers in Biology and Medicine**. 2021 Jul 8:104631. **IF: 6.698**
36. Sharma R, Verma S, **Kumar D***. Polyphenolics and therapeutic insights in different tissues extract and fractions of *Camellia sinensis* (L.) Kuntze (Kangra Tea). **Food Bioscience**. 2021 May 27:101164. **IF: 5.318**
37. Raj Y, Kumar A, Das S, Srivatsan V, **Kumar D**, Kumar R. A comparative analysis of compositional and phytochemical attributes in fruits of low chilling apple varieties cultivated in the eastern and western Himalaya. **Scientia Horticulturae**. 2021 Aug 25; 286: 110221. **IF: 4.342**
38. Rathore N, Thakur D, **Kumar D**, Chawla A, Kumar S. Time-series eco-metabolomics reveals extensive reshuffling in metabolome during transition from cold acclimation to de-acclimation in an alpine shrub. **Physiologia Plantarum**. 2021 Dec;173(4):1824-40. **IF: 5.081**
39. Rattan S, **Kumar D***, Warghat AR. Growth kinetics, metabolite yield, and expression analysis of biosynthetic pathway genes in friable callus cell lines of *Rhodiola imbricata* (Edgew.). **Plant Cell, Tissue and Organ Culture (PCTOC)**. 2021 Mar 25:1-2. **IF: 2.726**
40. Thakur BK, Mallikarjun CP, Mahajan M, Kapoor P, Malhotra J, Dhiman R, **Kumar D**, Pal PK, Kumar S. Introduction, adaptation and characterization of monk fruit (*Siraitia grosvenorii*): a non-caloric new natural sweetener. **Scientific Reports**. 2021 Mar 18;11(1):1-3. **IF: 4.996**
41. Gautam RD, Kumar A, Kumar R, Chauhan R, Singh S, Kumar M, **Kumar D**, Kumar A, Singh S. Clonal Propagation of *Valeriana jatamansi* Retains the Essential Oil Profile of Mother Plants: An Approach Toward Generating Homogenous Grade of Essential Oil for Industrial Use. **Frontiers in Plant Science**. 2021:2347. **IF: 6.627**
42. Sharma S, Chhimwal J, Kumar S, Padwad Y, **Kumar D***. Cytotoxic steroidal saponins from *Polygonatum verticillatum* Linn. **Phytochemistry Letters**. 2021 Oct 1; 45: 30-36. **IF: 1.873**
43. Thakur K, Sood A, Kumar P, **Kumar D***, Warghat AR. Steviol glycoside accumulation and expression profiling of biosynthetic pathway genes in elicited in vitro cultures of *Stevia rebaudiana*. **In Vitro Cellular & Developmental Biology-Plant**. 2021 Jan 26:1-1. **IF: 2.347**
44. Dhiman N, Kumar A, **Kumar D***, Bhattacharya A*. De novo transcriptome analysis of the critically endangered alpine Himalayan herb *Nardostachys jatamansi* reveals the biosynthesis pathway genes of tissue-specific secondary metabolites. **Scientific reports**. 2020; 10(1):1-3. **IF:4.996**
45. Partap M, Kumar P, Kumar A, Joshi R, **Kumar D***, Warghat AR. Effect of elicitors on morpho-physiological performance and metabolites enrichment in *Valeriana jatamansi* cultivated under aeroponic conditions. **Frontiers in Plant Science**. 2020; 11: 1263. **IF: 6.627**
46. Sharma A, Sharma R, **Kumar D**, Padwad Y. Berberis lycium Royle fruit extract mitigates oxidative-inflammatory stress by suppressing NF- κ B/MAPK signalling cascade in activated macrophages and Treg proliferation in splenic lymphocytes. **Inflammopharmacology**. 2020 Aug;28(4):1053-72. **IF: 5.093**
47. Partap M, Kumar P, Kumar P, **Kumar D***, Warghat AR*. Growth Kinetics, Metabolites Production and Expression Profiling of Picrosides Biosynthetic Pathway Genes in Friable Callus Culture of *Picrorhiza kurroa* Royle ex Benth. **Applied Biochemistry and Biotechnology**. 2020 Jul 28:1-20. **IF: 3.094**
48. Rattan S, Sood A, Kumar P, Kumar A, **Kumar D***, Warghat AR*. Phenylethanoids, phenylpropanoids, and phenolic acids quantification vis-à-vis gene expression profiling in leaf and root derived callus lines of *Rhodiola imbricata* (Edgew.). **Industrial Crops and Products**. 2020 Oct 15; 154:112708. **IF: 6.449**
49. Kumar R*, Joshi R, Kumari M, Thakur R, **Kumar D***, Kumar S*. Elevated CO₂ and temperature influence key proteins and metabolites associated with photosynthesis, antioxidant and carbon metabolism in *Picrorhiza kurroa*. **Journal of Proteomics**. 2020: 103755. **IF: 3.855**
50. Dogra NK, Kumar S, **Kumar D***. *Vernonia anthelmintica* (L.) Willd.: An ethnomedicinal, phytochemical, pharmacological and toxicological review. **Journal of Ethnopharmacology**. 2020; 256: 112777. **IF: 5.195**
51. Sharma S, Joshi R, **Kumar D***. Quantitative analysis of flavonols, flavonol glycoside and homoisoflavonoids in *Polygonatum verticillatum* using UHPLC-DAD-QTOF-IMS and evaluation of antioxidant potential. **Phytochemical analysis**. 2020; 31(3):333-339. **IF: 3.024**
52. Sharma D, Saini S, **Kumar D**, Kaur I, Kaur S. Assessment of sorption potential of paddy straw biochar for lead (pb²⁺) removal from waste water. **Pollution Research**. 2019; 38 (2): S98-S108, Suppl Issue.

53. Thakur K, Partap M, Kumar D*, Warghat AR. Enhancement of picrosides content in *Picrorhiza kurroa* Royle ex Benth. mediated through nutrient feeding approach under aeroponic and hydroponic system. **Industrial Crops & Products** 133 (2019) 160–167. **IF: 6.449**
54. Kumar D*, Thakur K, Sharma S, Kumar S. NMR for metabolomics studies of *Crataegus rhipidophylla* Gand. Analytical and Bioanalytical Chemistry. 2019. 411: 2149-2159. **IF: 4.478**
55. Joshi R, Sharma A, Thakur K, Kumar D*, Nadda G*. Metabolite analysis and nucleoside determination using reproducible UHPLC-Q-ToF-IMS in *Ophiocordyceps sinensis*. **Journal of liquid chromatography & related technologies**. 2018; 41:15-16, 927-936. **IF: 0.827**
56. Sharma S, Patial V, Singh D, Sharma U, Kumar D*. Antimicrobial homoisoflavanoids from the rhizomes of *Polygonatum verticillatum*. **Chemistry & Biodiversity** 2018; **IF-1.617**
57. Dogra NK, Kumar S, Thakur K, Kumar D*. Antipsoriatic effect of fatty acid enriched fraction of *Vernonia anthelmintica* Willd. fruits. **Journal of ethnopharmacology**. 2018; 224; 85-90. **IF: 5.195**
58. Kumar D*, Kumar P, Sharma U. UPLC-DAD-MS based quality control and discrimination analysis of different aerial parts of *Crataegus rhipidophylla* Gand. found in Indian western Himalaya. **Analytical chemistry letter**. 2018; 8(2): 177-187.
59. Kumar D* and Sharma U. High-performance thin-layer chromatography: An economical alternative for the quality control of medicinal plants and derived products. **Separation Science Plus**. 2018; 1(2):100-134.
60. Sharma R, Jandroti R, Singh B, Sharma U and Kumar D*. Comprehensive metabolomics study of traditionally important Rumex species found in western himalayan region. **Natural Product Communication**. 2018, 13: 1-6. **IF: 1.496**
61. Sharma S, Sharma P, Kulurkar P, Singh D, Kumar D*, Patial V. Iridoid glycosides fraction from *Picrorhiza kurroa* attenuates cyclophosphamide-induced renal toxicity and peripheral neuropathy via PPAR- γ mediated inhibition of inflammation and apoptosis. **Phytomedicine**. 2017, 36, 108-17. **IF: 6.656**
62. Kumar S, Patial V, Soni S, Sharma S, Pratap K, Kumar D*, Padwad Y*. *Picrorhiza kurroa* Enhances β -Cell Mass Proliferation and Insulin Secretion in Streptozotocin Evoked β -Cell Damage in Rats. **Frontiers in Pharmacology**. 2017, 8, 537. **IF: 5.988**
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Oral Presentation

Abroad

1. **Dinesh Kumar***, Imperative system biology tool (Metabolomics) to understand the aroma and chemistry of medicinally important aromatic crops of Indian Western Himalaya. 6th World Congress on Medicinal and Aromatic Plants for Human and Animal Welfare (WOCMAP VI). Nov. 13-17, 2019 at Kaya Artemis Hotel, Famagusta, N. Cyprus.
2. **Dinesh Kumar***, NMR driven metabolomics based chemoinformation of plants and derived natural products: Quality control perspective. The International Workshop on the Application of NMR in Pharmaceutics, Phytotherapeutics and Medicine. November 15 - 17, 2017 at Bezmialem Vakif University, Istanbul, Turkey.
3. **Dinesh Kumar***, Zulfiqar Ali Bhat, Vijender kumar. Chemical identification and anxiolytic activity of *Stachys tibetica* oil. 3rd International Conference on Medicinal Plants and Herbal Products, Colombo, **Sri Lanka**, 19 to 21 December 2011.
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India

1. **Dinesh Kumar***. Delivered a seminar on Pharmacy as a career in the symposium of Rayat and Bahara Group of Institutions, Railmazra Ropar, India. Feb. 2010.
2. **Dinesh Kumar***. Need of Standardization of Herbal Drugs. National Seminar Recent Advances in Pharmaceutical Education and Research, NSRAPER-2009. 15-16th July, 2009, Department of Pharmaceutical Sciences, University of Kashmir, Srinagar-190006, India.
3. **Dinesh Kumar***, Vijender Kumar, Zulfiqar Ali Bhat. The impact of the built environment on Public health. Indian Society of Geomatics, Kashmir Chapter, Regional conference on Geomatics for good governance (G-Governance- 2011). University of Kashmir, Srinagar-190006, India.
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5. **Dinesh Kumar**, ZA Bhat, Vijender Kumar, M.Y Shah. Flavonoid glycoside from *Stachys tibetica* Vatke and its effect on anxiety. National conference on Drug Innovation: Emerging trends and challenges 10-11 Feb., 2012, Rayat- Bahra Institute of Pharmacy, Hoshiarpur.
6. **Dinesh Kumar***. Metabolomics: Driving value with comprehensive solutions for chemical information and quality control of ethnomedicines. 4th International Congress of the Society of Ethnopharmacology held at UKA Tarsadia University, Surat, Gujrat during Feb 23-25, 2017.
7. **Dinesh Kumar***. Imperative system biology tool (Metabolomics) to understand quality control and biochemical flux in medicinally important plants of western Himalaya. Opportunities and trends in

modern instrumentation for science and Technology, 07-11-2019 at GED University and CSIR-IIP, Dehradun, Uttaranchal, India

8. **Dinesh Kumar***. Metabolomics: A way towards metabolic information & quality control of traditional medicine. International Bioresource Conclave & Ethnopharmacology Congress at City Convention Centre, Imphal, Manipur, India, 24-26 February, 2023.
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Poster Presentation

International

1. **Dinesh Kumar***, Bhat ZA, Kumar V, Chashoo IA, Khan NA, Shah MY. Anxiolytic activity of non-polar coumarins of *Angelica archangelica* Linn. Three-day International conference on Recent Advances in Pharmaceutical sciences, RIP, Punjab, march 21-23, PL-12, P.100 (2012).
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Conferences/ Seminar/workshops

- Art of scientific writing, DAV University, Jalandher, Punjab.
- Nanotechnology: From drug discovery to drug delivery. Marathwada Mitra Mandal college of Pharmacy, Thergaon, kalewadi, Pune. 7th Feb. 2009
- Natural Product Inspired Drug Development. Padam Shree. Dr. D.Y. Patil IPSR, Pimpri, Pune-18. 6-7th March 2009.
- Drug Discovery Development and Delivery. Padam Shree. Dr. D.Y. Patil IPSR, Pimpri, Pune-18.15-16th Feb. 2008.
- Challenges and opportunities in pharmaceutical research. Modern College of Pharmacy, Nigdi, Pune-44

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