

DR. GAURAV

B. Pharm, MS. Pharm, Ph.D.,

Assistant Professor

IIMT College of Medical Science

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<https://scholar.google.com/citations?user=-aZvWz4AAAAJ&hl=en>



Career objective: To secure a responsible career with ample opportunities and fully utilize my training and skills, while contributing significantly to organization and personal development.

PROFESSIONAL QUALIFICATION:

- **2018-2022: Ph.D.** in Pharmacognosy & Phytochemistry at Bioactive Natural Product Laboratory, Jamia Hamdard, New Delhi-110062
- **2016-2018: M.S. Pharm** in Natural products (Traditional medicine) from National Institute of Pharmaceutical Education and Research (NIPER), Mohali, Punjab-160062
- **2012-2016: B. Pharm** from Dr. A.P.J. Abdul Kalam Technical University, formerly Uttar Pradesh Technical University, Lucknow, Uttar Pradesh-226031, India.

CURRENT POSITION AND EXPERIENCE IN ACEDMIC/R&D

- **Assistant Professor** at IIMT University, IIMT College of medical science, Meerut, Uttar Pradesh, **(Dec 2022- Till date)**
- 4-year experience as **Senior Research Fellow** at **AIMIL Pharmaceuticals (India) Ltd.** and **Jamia Hamdard**, New Delhi, **(Oct 2018-Nov-2022)**
- 1-year experience as Research Fellow at NIPER Mohali, Punjab, **July 2017- June 2018**

COMPLETED RESEARCH PROJECTS

1. Exploration of molecular mechanism and establishment of traditional ayurvedic therapeutic claim of *Momordica charantia* in alleviating diabetes and associated complications (**PI: Dr. Gaurav, Cost: 2 Lakh, Duration: 6 months, Funding agency: IIMT University**)

2. **Ph.D. Thesis Title:** Development of phytopharmaceutical and synergy-based combination of *Boerhavia diffusa* L. and *Tinospora cordifolia* L. for chronic kidney disease using *in-vitro*, *in-vivo* and metabolomics approaches

Supervised by

Prof. (Dr.) Sayeed Ahmad

Professor, Pharmacognosy & Phytochemistry
Head, Department of Food Technology
Coordinator: Centre of Excellence in Unani Medicine (Pharmacognosy & Pharmacology), Bioactive Natural Product Laboratory,
School of Pharmaceutical Education & Research
(Rank 1 Pharmacy Institute of India, NIRF 2017, 2019, 2020 & 2021)
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3. **M.S. Pharm Thesis Title:** Isolation and characterization of secondary metabolites from leaves of *Carica papaya* L

Supervised by

Prof. (Dr.) Inder Pal Singh

Department of Natural Products
National Institute of Pharmaceutical Education and Research (NIPER)
Mohali, Punjab-160062
Contact details: 9815026410, ipsingh@niper.ac.in; ipsingh67@yahoo.com

4. **Other projects under the supervision of Prof. (Dr.) Sayeed Ahmad**

- Quality control and pharmacological evaluation of NEERI-KFT.
- Quality control evaluation of Indian medicinal plants using HPTLC technique.

NATIONAL AND INTERNATIONAL AWARDS:

- DRASS-Young scientist award 2023
- Best Oral Presentation Award, DRASS 2023
- STE Young Researcher Award in Faculty Category (STE EWASH 2023)
- Hakeem Abdul Hamed Young Researcher Award (IASTAM 2022)
- ICMR SRF fellowship (2022)
- DST PURSE fellowship (2021)
- Best publication appreciation award 2021 (Dr P D Sethi Memorial National Award) for published paper entitled “Gaurav, Zahiruddin S, Parveen B, Ibrahim M, Sharma I,

Sharma S, Sharma AK, Parveen R, Ahmad S. TLC-MS bioautography-based identification of free-radical scavenging, α -Amylase, and α -Glucosidase inhibitor compounds of antidiabetic tablet BGR-34. ACS omega. 2020 Nov 12;5(46):29688-97.”

FELLOWSHIPS:

- **ICMR SRF fellowship**
- **DSP PURSE fellowship**
- **Consultancy Project Fellowship: AIMIL Pharmaceuticals India Pvt Ltd. Project entitled “Quality control and pharmacological evaluation of NEERI-KFT”**

ADMINISTRATIVE RESPONSIBILITIES

- Member of research Ethical Committee, IIMT University
- Member of Life line Hospital Inspection Committee
- In-Charge of NAAC criteria’s

TECHNICAL SKILLS:

- Analytical techniques like TLC, HPTLC, HPLC, UV, GC-MS, LC-MS & NMR
- Chromatographic technique like column chromatography, vacuum liquid chromatography & flash chromatography
- Formulation development and their quality control analysis
- Scientific information retrieval using search engines like
- Sci-Finder, Sci-Hub, PubMed, Google Scholar, Science Direct & Library Genesis
- LC solution (HPLC software), WinCat (HPTLC software), TOPSPIN (NMR data interpretation software)
- Perkin Elmer Informatics Chem Draw and Chem Office
- Reference management software (Endnote and Mendeley)
- Statistical Analyses with Graphpad Prism 8
- Autodock molecular drug designing
- Cytoscape, Metascape, network analyst, coreldrow tool for drug and arts designing in science and technology
- Computer proficiency - MS Office (Word, Excel & Power Point)

EXPERTISE:

- Medical Review & Approval - product promotional material e.g, product monograph,
- Medical Information/Medical query handling
- Manuscript and abstract development/ review for publication
- Abstract Expressionism
- Abstracting, systematic reviews

- Poster Design
- Statistical Data Analysis

PUBLICATIONS:

Book:

1. **Gaurav**, 2023. Metabolomics and Network Pharmacology in Therapeutic Exploration of Medicinal Plants, IIP Self page Developers Pvt Ltd., E-1.

Book Chapter:

1. **Gaurav**, Sayeed Ahmad, LC- MS-based Metabolomics of Medicinal Plants, Book: Omics Studies of Medicinal Plants: ISBN: 9781003179139
2. **Gaurav**: Advanced Analytical Methods for Quality Control of Unani Drugs-Araqiyat (Distillates), 'National Formulary of Unani Medicine, Vol. IV, 2nd Edition'. (Published by CCRUM, AYUSH)

NATIONAL AND INTERNATIONAL PUBLICATIONS:

Publication as first author or corresponding author:

1. Akash Kumar, Gaurav, Multi-targeted therapeutic exploration of *Tamarix gallica* flowers for anti-ulcer activity and associated complications, Journal of Ayurveda and Integrative Medicine (Under production), **IF: 2.4**
2. Gaurav, Regulation of Interleukin 2, Proto-oncogene c-Fos and poly (ADP-ribose) glycohydrolase genomic expression by rosmarinic acid in attenuation of diabetes and associated complications, Journal of Biological Regulators and Homeostatic Agents. 2023., **IF: 2.89**
3. Gaurav, Sayeed Ahmad. TLC-bioautography-MS Based Identification of Anti-oxidant, α -amylase and α -glucosidase Inhibitory Compounds in a Poly Herbal Formulation "Sugreen-120", Pharmacognosy magazine, 2023; Doi.org/10.1177/09731296221145064, **IF: 0.9**
4. Gaurav, Sayeed Ahmad, Multi-mechanistic and therapeutic exploration of nephroprotective effect of traditional Ayurvedic polyherbal formulation using in-silico, in-vitro and in-vivo approaches, Biomedicines 2023, 11(1), 168., **IF: 4.8**
5. Gaurav, Ahmad S. GC-MS metabolomics and network pharmacology-based investigation of molecular mechanism of identified metabolites from *Tinospora cordifolia* (Willd.) miers for the treatment of kidney diseases. Pharmacognosy Magazine. 2022 Jul 1;18(79)., **IF: 0.9**
6. Gaurav Gautam, Mohammad Umar Khan, Parakh Basist, Sultan Zahiruddin, Mohammad Ibrahim, Rabea Parveen, Anuja Krishnan, Sayeed Ahmad, Nephroprotective potential of *Boerhaavia diffusa* and *Tinospora cordifolia* herbal combination against diclofenac induced nephrotoxicity, South African Journal of

Botany, 10 February 2022, **IF: 3.1**

7. Gaurav; Zahiruddin, Sultan; Parveen, Bushra; Ibrahim, Mohammad; Sharma, Ikshit; Sharma, Sanchit; Sharma, Anil; Parveen, Rabea; Ahmad, Sayeed. TLC-MS bioautography-based identification of free radical scavenging, alpha-amylase and α -glucosidase inhibitor compounds of antidiabetic tablet BGR-34; ACS Omega. xxx, xxx., **IF: 4.2**
8. Gaurav, Parveen B, Khan MU, Sharma I, Sharma AK, Parveen R, Ahmad S. A Systematic Review on nephron protective AYUSH drugs as constituents of NEERI-KFT (A traditional Indian polyherbal formulation) for the management of chronic kidney disease. Saudi Journal of Biological Sciences. 2021 Jul 12., **IF: 4.2**
9. Gautam G. Network Pharmacology-Based Validation of Traditional Therapeutic Claim of Momordica Charantia in Alleviating Diabetic Nephropathy. J. CAM Res. Prog. 2022; 1:102., **IF: 0.2**

Publication as Co-author:

1. Mohammad Umar Khan, Parakh Basist, Gaurav, Sultan Zahiruddin, Naveen Reddy Penumallu, Sayeed Ahmad. Ameliorative effect of traditional polyherbal formulation on TNF- α , IL-1 β and Caspase-3 expression in kidneys of wistar rats against sodium fluoride induced oxidative stress, Journal of Ethnopharmacology, 11 July 2023, 116900. **IF: 5.6**
2. Gaurav et al., Exploring the antihypertensive effect of rutin through system based computational analysis, Annals of Phytomedicine: An International Journal, 1-7, 2023. **IF: 0.5**
3. Insaf A, Parveen R, Gautam G, Samal M, Zahiruddin S, Ahmad S. A Comprehensive Study to Explore Tyrosinase Inhibitory Medicinal Plants and Respective Phytochemicals for Hyperpigmentation; Molecular Approach and Future Perspectives. Current Pharmaceutical Biotechnology. 2022. **IF: 1.4**
4. Basist P, Khan MU, Jan B, Gaurav, Khan MA, Parveen R, Ahmad S. Metabolite Profiling and Nephroprotective Potential of the Zea mays L. Silk Extract against Diclofenac-Induced Nephrotoxicity in Wistar Rats. ACS omega. 2022 Oct 7;7(41):36519-34. **IF: 4.2**
5. Basist P, Zahiruddin S, Khan MU, Gautam G, Jan B, Khan MA, Parveen R, Ahmad S. Metabolite profiling and nephroprotective potential of Glycyrrhiza glabra L. roots against cisplatin-induced nephrotoxicity in vitro and in vivo. Iranian Journal of Basic

- Medical Sciences. 2022 Nov 1;25(11). **IF: 1.4**
6. MU Khan, G Gautam, B Jan, S Zahiruddin, R Parveen, S Ahmad., Vitamin D from Vegetable VV Sources: Hope for the Future, *Phytomedicine Plus*, Volume 2, Issue 2, May 2022, 100248. **IF: 0.5**
 7. Ahmad S, Zahiruddin S, Parveen B, Basist P, Parveen A, Gaurav, Parveen R, Ahmad M. Indian medicinal plants and formulations and their potential against COVID-19—preclinical and clinical research. *Frontiers in pharmacology*. 2021 Mar 2;11:2470. **IF: 5.8**
 8. Khan A, Zahiruddin S, Ibrahim M, Basist P, Gaurav, Parveen R, Umar S, Ahmad S. Thin layer chromatography-mass spectrometry bioautographic identification of free radical scavenging compounds and metabolomic profile of *Carica papaya* linn. fruit and seeds using high-performance thin-layer chromatography, gas chromatography-mass spectrometry and ultra-performance liquid chromatography-mass spectrometry. *Pharmacognosy Magazine*. 2021 Jan 1;17(5):21. **IF: 0.9**
 9. Ibrahim M, Parveen B, Zahiruddin S, Gaurav, Parveen R, Khan MA, Gupta A, Ahmad S. Analysis of polyphenols in *Aegle marmelos* leaf and ameliorative efficacy against diabetic mice through the restoration of antioxidant and anti-inflammatory status. *Journal of Food Biochemistry*. 2021 Jul 11:e13852. **IF: 3.68**
 10. V. Kumar, S. Ain, B. Kumar, Q. Ain, and Gaurav, “Optimization and evaluation of topical gel containing solid lipid nanoparticles loaded with luliconazole and its anti-fungal activity,” *Int. J. Pharm. Res.*, 2020, doi: 10.31838/ijpr/2020.SP2.169. **IF: 0.4**

GOOGLE CITATION PROFILE



Gaurav Gautam

FOLLOW

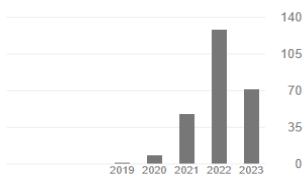
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Verified email at jamiahamdard.ac.in

Medicinal plants Phytochemistry Chromatography Ethnopharmacology
Molecular pharmacology

TITLE	CITED BY	YEAR
Indian medicinal plants and formulations and their potential against COVID-19—preclinical and clinical research S Ahmad, S Zahiruddin, B Parveen, P Basist, G Gautam, A Parveen, ... Frontiers in pharmacology 11, 2470	105	2021
Ashwagandha in brain disorders: A review of recent developments S Zahiruddin, P Basist, A Parveen, R Parveen, W Khan, G Gautam, ... Journal of ethnopharmacology 257, 112876	69	2020
TLC-MS Bioautography-Based Identification of Free-Radical Scavenging, α-Amylase, and α-Glucosidase Inhibitor Compounds of Antidiabetic Tablet BGR-34 G Gautam, S Zahiruddin, B Parveen, M Ibrahim, I Sharma, S Sharma, ... ACS omega 5 (46), 29688-29697	25	2020
Analysis of polyphenols in <i>Aegle marmelos</i> leaf and ameliorative efficacy against diabetic mice through restoration of antioxidant and anti-inflammatory status M Ibrahim, B Parveen, S Zahiruddin, G Gautam, R Parveen, MA Khan, ... Journal of Food Biochemistry 46 (4), e13852	15	2022

Cited by

	All	Since 2018
Citations	263	260
h-index	7	7
i10-index	5	5



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Based on funding mandates

CONFERENCES AND SEMINARS ATTENDED:

- Oral presentation at National workshop organized by DRASS on 13 May 2023
- Oral presentation at International Conference on EWASH, organized online on 12th-13, January 2023
- Oral presentation at international conference IASTAM conclave 2020, 29-30th July 2022, Jamia Hamdard, New Delhi-110062
- Poster presentation at 8th Convention Society for Ethnopharmacology, 2021, Shaktigarh, Kolkata, India.
- Participated in 4th UDMA association as volunteer and poster presentation at Jamia Hamdard, New Delhi-110062.
- Poster presentation at 8th international conference of the society for ethnopharmacology, Maharashtra, Pune, India 2021
- An oral presentation at National Conference on Recent Advances in Biological Sciences "NCRABS-2020" Jamia Millia Islamia, New Delhi, India
- Certificate of Reviewing, Journal of Ethnopharmacology, awarded since January 2021.
- Certificate of Reviewing, Journal of Herbal Medicine, awarded since January 2021.
- Participated in 3rd UDMA association as volunteer and poster presentation at Jamia Hamdard, New Delhi-110062
- A poster presentation at 7th international conference of the society for ethnopharmacology, Jamia Hamdard, New Delhi, India 2020
- Participated in international conference conducted by Society of Pharmaceutical Education and Research, May30-31, 2020
- Participated in International online conference, SPER-SPRINGER CON-2020
- Workshop on hands-on GC-MS metabolomics analysis

- 6th World Congress on Nanomedical science Vigyan Bhawan New Delhi (ISNSCON 2018)
- National conference on alternatives to animal experiments (NCAAE 2018)
- National workshop on alternatives to animal experiments Jamia Hamdard, Delhi 2018
- 6th International Congress of the Society for Ethnopharmacology (SFEC 2019)
- 5th Biennial International Conference on New Development in drug discovery from Natural Products & Traditional Medicines in NIPER S.A.S. Nagar 2017
- Indo-German Symposium on Science Communication by German House for Research & Innovation in NIPER S.A.S. Nagar 2018
- Indo-Japan Symposium on Science Communication towards the Future of Advanced Researches by Shizuoka University in NIPER S.A.S. Nagar 2018
- National conference on Intellectual Properties Right during B. Pharm in Sanskar Education Group GZB 2015

MEMBERSHIP AND EXTRA-CURRICULAR ACTIVITY:

- APTI Life time Membership
- Worked as a volunteer in 4th UNANI Drug Manufacturer Association, Jamia Hamdard New Delhi (2021).
- Member at Society for Ethnopharmacology, India
- Worked as a volunteer in 7th International Congress of Society for Ethnopharmacology, Jamia Hamdard New Delhi.
- Member at Rotary club, India
- Participated at Intellectual events organized by Department of Management at NIPER Mohali, Punjab India

References

Sayed Ahmad

M Pharma., Ph D (Pharmacognosy & Phytochemistry)

Head, Department of Food Technology, SIST

In Charge: Bioactive Natural Product Laboratory

Professor,

Department of Pharmacognosy & Phytochemistry

School of Pharmaceutical Education & Research

(Rank 1 Pharmacy Institute of India, NIRF 2017, 2019 & 2020)

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