

ATHAR HUSAIN (Ph.D.)

🏠 Pharmaceutics and Pharmacokinetics Division, PCN 104, CSIR-Central Drug Research Institute (CDRI), Lucknow (UP), India-226031, India | ☎ +919026212352 | ✉ atharhusain001@gmail.com | [in](https://www.linkedin.com/in/athar-husain-2006a057/)
<https://www.linkedin.com/in/athar-husain-2006a057/>.

Research Interest

- Research and Development
- Drug Metabolism and Pharmacokinetics
- *In vitro* ADME
- Bioanalysis
- Pharmacology

Skills & Abilities

- Research and Development
- Well-versed with peak purity, in-vitro ADME (solubility, Log *P*/ log *D*, Chrom LogD, SGF/SIF, plasma stability, blood plasma partitioning, protein binding, SPIP, PAMPA, in vitro CYP inhibition/induction and phase I and II microsomal metabolic stability experiments).
- Quit expert in handling laboratory animals and dosage administration in rats, mice, and rabbits using oral, i.v, i.p, i.m, and s.c routes of administration.
- Drug metabolism and *in-vitro/in-vivo* preclinical pharmacokinetics, drug-drug interactions, herb-drug interactions, dose proportionality studies, gender differences, species comparison, tissue distribution, and excretion studies.
- Bio-sample preparation techniques like protein precipitation, liquid-liquid extraction and solid-phase extraction
- Hands-on bioanalytical and analytical method development using HPLC (Shimadzu and Waters) and LC-MS/MS (ABSciex 4000 QTRAP & 5500 QTRAP, and Thermo Scientific TSQ Altis™) for quantification of NCE's, phytoconstituents, drugs, metabolite or biomarkers in different biological matrices (plasma, serum, blood, and tissues, etc.).
- Fingerprinting, phytoconstituents characterization and pharmacokinetics of plant extract.
- Pharmacology and several biological experiments like ligand binding assays (ELISA), cell viability experiments using MTT in HepG2 cells, RNA isolation, mRNA to cDNA conversion and RT-qPCR experiments, biochemical assay, histopathological analysis
- WinNonlin 6.3, GraphPad Prism 7, MS Office, Endnote 7, Mendeley.

Education

Ph.D. | CSIR-Central Drug Research Institute (CDRI), Lucknow (U.P.), India
April 2022
[Biological Sciences with specialization in Pharmaceutical Sciences]

M.PHARM | Uttar Pradesh Technical University, Lucknow (U.P.), India
2015, 74.13%
[Pharmacology]

B.PHARM | Uttar Pradesh Technical University, Lucknow (U.P.), India
2012, 67.43%.
[Pharmacy]

Grants, Honors, and Awards

- Received **Senior Research Fellowship** (SRF) by Indian Council of Medical Research (ICMR) with reference letter number 45/4/2018/TRM/BMS dated 03-04-2018.
- Qualified **Graduate Aptitude Pharmacy Test** (GPAT)-2014 and Secured All India Rank 1766.

Experience

Specialist-DMPK | Aurigene Pharmaceutical Services Limited (APSL), Bangalore.

24/01/2022 to present (11 Months)

Currently, I am working as DMPK-Specialist and engaged in biosample analysis and in vitro ADME (DMPK) studies.

- Bioanalytical and analytical method development and validation for quantification of NCEs.
- Plasma stability, SGF, SIF, Microsomal stability study, Plasma protein binding, Brain tissue binding, Chrom LogD study.

Project Associate-1 | CSIR-Central Drug Research Institute, Lucknow

12/08/2021 to 11/01/2022 (5 Months)

I was engaged in the CSIR-TLP0014 (NMITLI) project titled “Development of Novel anti-stroke phytopharmaceutical formulation from the roots of a Ashwagandha variety, NMITLI-118” funded by CSIR.

- Bioanalytical and analytical method development and validation for quantification of NMITLI-118 markers.
- Pharmacokinetic study of NMITLI-118 Markers after oral administration of NMITLI-118.

Senior Research Fellow | CSIR-Central Drug Research Institute, Lucknow

24/04/2018 to 23/04/2021 (36 Months)

- Pharmacokinetic and pharmacodynamic drug interaction studies of antihyperlipidemic drugs coadministered with herbal slimming products.
- Bioanalytical and analytical method development and validation for quantification of human CYP-specific probe substrate's metabolite, i.e., acetaminophen, 7-hydroxycoumarin, 6-hydroxybupropion, 4'-hydroxydiclofenac, 5-hydroxyomeprazole, dextrophan, 6-hydroxychlorzoxazone and 6 β -hydroxytestosterone using LC-MS/MS for evaluation of the effect of polyherbal formulation on the human CYPs isoform (IC₅₀ studies).
- Bioanalytical and analytical method development and validation for quantification of hesperidin and hesperetin: application to its preclinical pharmacokinetic studies.
- Pharmacokinetics studies of ethanolic extract of *Cissus quadrangularis* orally administered in SD rats.
- Fingerprinting of *Tinospora cordifolia* (135-C002), their formulation, and ethanolic extract of *Cissus quadrangularis* administered in rodents for characterization using LC-MS/MS.
- Bioanalytical and analytical method development and validation for quantification of CSIR-CDRI compounds such as S016-1348, S017-0659, S018-0666, S019-0609, and S019-0610 and its application to *in vitro* and *in vivo* preclinical pharmacokinetic studies.
- Bioanalytical and analytical method development and validation for simultaneous quantification of N016-0050, N016-0051, N016-0052, N017-0039, N017-0040, N018-0011, 135/K051, 135/K052, 135/K054 markers in *Tinospora cordifolia* (135-C002) extract using LC-MS/MS: application to its pharmacokinetic studies.

Project Assistant-III | CSIR-Central Drug Research Institute, Lucknow

17/01/2018 to 23/04/2018 (3 Months)

I was engaged in the CSIR-HCP0010 project titled “CSIR Phytopharmaceutical Mission” funded by CSIR.

- Fingerprinting of *Tinospora cordifolia* (135-C002) using LC-MS/MS for characterization.
- Bioanalytical and analytical method development and validation for quantification of acetaminophen, 7-hydroxycoumarin, 6-hydroxybupropion, 4'-hydroxydiclofenac, 5-hydroxyomeprazole, dextrophan, 6-hydroxychlorzoxazone and 6 β -hydroxytestosterone using LC-MS/MS for evaluation of the effect of *Tinospora cordifolia* (135-C002) on the human CYPs isoform (IC₅₀ studies).
- Herb-drug interaction studies of ethanolic extract of *Cassia occidentalis* L. coadministered with Acetaminophen, Theophylline, Omeprazole, Methotrexate and Methylprednisolone.

Project Fellow | CSIR-Central Drug Research Institute, Lucknow

02/11/2015 to 31/03/2017 (17 Months)

I was engaged in the CSIR-BSC0201 project titled “Anabolic Skeletal Targets in Health and Illness-ASTHI”, funded by CSIR.

- Fingerprinting of ethanolic extract of *Cassia occidentalis* Linn. stem (219-C002) using LC-MS/MS for characterization.
- Bioanalytical and analytical method development and validation for simultaneous quantification of Apigenin, Apigenin 6-C-glycoside (Isovitexin), Emodin, Luteolin, 3',4',7- Trihydroxyflavone, and Niacin, and Chrysogenin in ethanolic extract of *Cassia occidentalis* Linn. stem (219-C002) using LC-MS/MS: application to its pharmacokinetic studies
- Pharmacokinetics studies of a butanolic fraction from the standardized stem extract of *Cassia occidentalis* L delivered by a self-emulsifying drug delivery system in SD rats.
- Bioanalytical and analytical method development and validation for quantification of human CYP-specific probe substrate's metabolite, i.e., acetaminophen, 7-hydroxycoumarin, 6-hydroxybupropion, 4'-hydroxydiclofenac, 5-hydroxyomeprazole, dextrophan, 6-hydroxychlorzoxazone and 6 β -hydroxytestosterone using LC-MS/MS for evaluation of the effect of ethanolic extract of *Cassia occidentalis* Linn. stem (219-C002) on the human CYPs isoform (IC₅₀ studies).
- Bioanalytical and analytical method development and validation for quantification of several CSIR-CDRI compounds, i.e., S011-1992, S011-2111, S012-1332, S015-728, S015-816 and its application to *in vitro* and *in vivo* preclinical pharmacokinetic studies.
- Bioanalytical and analytical method development and validation for quantification of vancomycin, meropenem, ceftriaxone, ceftazidime, imatinib, and clofazimine and its application to preclinical pharmacokinetic studies.

Lecturer | Mahatma Gandhi Institute of Pharmacy, Lucknow

10/09/2014 to 16/10/2015 (13 Months)

Graduate Trainee | CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow

03/10/2013 to 03/04/2014 (6 Months)

Trainee | Uttar Pradesh Drugs & Pharmaceuticals Company Limited (UPDPL), Lucknow

16/01/2011 to 16/08/2011 (1 Month)

Academic Projects

- **Ph.D.–Thesis title:** “Pharmacokinetic and herb-drug interaction studies of conventional drugs coadministered with herbal extracts/products”. Principal Investigator: Dr. Jiaur R. Gayen, Principal Scientist, Pharmaceutics and Pharmacokinetics Division, CSIR-CDRI, Lucknow, India.

- **M.Pharm–Thesis title:** “Standardization of immunomodulator herbal formulation and its antioxidant activity on the small animal model”. Principal Investigator: Dr. Dayanandan Mani, Principal Scientist, Herbal Medicinal Products Department, CSIR-CIMAP, Lucknow-226015 India.

Certificate courses completed

1. Completed online certificate course on Drug Metabolism and Pharmacokinetics organized by the Indian Society for Study of Xenobiotics (SSX-India) from August to December 2020
2. Completed certificate course on Humane Care of Experimental Animals & Basic Animal Handling and Procedural Techniques conducted at CSIR-CDRI, Lucknow, from 6th-12th December 2019.

List of Publications

1. Chauhan D, Sultana N, Yadav PK, Rashid M, **Husain A**, Agarwal A, Chaturvedi S, Singh S, Chourasia MK, Gayen JR, Wahajuddin W. Pharmacokinetic interaction potential assessment of cladrin, a potent bioactive constituent of *Butea monosperma*, and raloxifene, a prescription anti-osteoporotic by in vitro ADME approach. *Indian Journal of Traditional Knowledge (IJTK)*. 2022 Nov 17;21(4):789-96.
2. Syed AA, Reza MI, Kalleti N, **Husain A**, Singh P, Rath SK, Gayen JR. Evaluation of mutagenic, cytotoxic, mitochondrial dysfunction, apoptotic activity, and acute toxicity of ethanolic extract of *Cissus quadrangularis*. *Toxicology*. 2022 Nov 9;153373. <https://doi.org/10.1016/j.tox.2022.153373>.
3. Katekar R, Sen S, Riyazuddin M, **Husain A**, Garg R, Verma S, Mitra K, Gayen JR. Augmented experimental design for bioavailability enhancement: a robust formulation of abiraterone acetate. *Journal of Liposome Research*. 2022:1-12. <http://doi.org/10.1080/08982104.2022.2069811>.
4. **Husain A**, Makadia V, Valicherla GR, Riyazuddin M, Gayen JR. Approaches to minimize the effects of P-glycoprotein in drug transport: A review. *Drug development research*. 2022 Feb 1, 83:825-841. <http://doi.org/10.1002/ddr.21918>.
5. Valicherla GR, Katekar RA, Dadge S, Riyazuddin M, Syed AA, Singh SK, **Husain A**, Wahajuddin M, Gayen JR. Evaluation of the Pharmacokinetics of the Pancreastatin Inhibitor PSTi8 Peptide in Rats: Integration of In Vitro and In Vivo Findings. *Molecules*. 2022 Jan 4; 27(2): 339. <https://doi.org/10.3390/molecules27020339>
6. Syed AA#, Reza MI#, Singh P, **Husain A**, Dadge S, Gayen JR. Polyphenolic-rich *Cissus quadrangularis* extract ameliorates insulin resistance by activating AdipoR1 in peri-/post-menopausal rats. *Experimental Gerontology*. 2021 Dec 30; 159: 111681. <https://doi.org/10.1016/j.exger.2021.111681>
7. Reza MI, Syed AA, Singh P, **Husain A**, Gayen JR. Pancreastatin induces hepatic steatosis in type 2 diabetes by impeding mitochondrial functioning. *Life Sciences*. 2021 Nov 1;284:119905. <https://doi.org/10.1016/j.lfs.2021.119905>.
8. Syed AA, Shafiq M, Reza MI, Bharati P, **Husain A**, Singh P, Hanif K, Gayen JR. Ethanolic extract of *Cissus quadrangularis* improves vasoreactivity by modulation of eNOS expression and oxidative stress in spontaneously hypertensive rats. *Clinical and Experimental Hypertension*. 2021 Oct 16:1-9. <https://doi.org/10.1080/10641963.2021.1991942>.
9. Reza MI, Syed AA, Kumariya S, Singh P, **Husain A**, Gayen JR. Pancreastatin induces islet amyloid peptide aggregation in the pancreas, liver, and skeletal muscle: An implication for type 2 diabetes. *International Journal of Biological Macromolecules*. 2021 Jul 1;182:760-71.
10. Singh P#, Reza MI#, Syed AA, **Husain A**, Katekar R, Gayen JR. Pancreastatin mediated regulation of UCP-1 and energy expenditure in high fructose fed perimenopausal rats. *Life Sciences*. 2021

May 31;119677. <https://doi.org/10.1016/j.lfs.2021.119677>.

11. Verma S, Goand UK, **Husain A**, Katekar RA, Garg R, Gayen JR. Challenges of peptide and protein drug delivery by oral route: Current strategies to improve the bioavailability. Drug development research. 2021 May 14;1-18. <https://doi.org/10.1002/ddr.21832>.
12. **Husain A**, Riyazuddin M, Katekar R, Verma S, Syed AA, Singh P, Maurya R, Chattopadhyay N, Gayen JR. Herb–drug interaction studies of ethanolic extract of *Cassia occidentalis* L. coadministered with acetaminophen, theophylline, omeprazole, methotrexate and methylprednisolone. *Phytomedicine Plus*. 2021 Feb 1;1(1):100008.
13. Syed AA, Reza MI, **Husain A**, Singh P, Gayen JR. Inhibition of NOX4 by *Cissus quadrangularis* extract protects from Type 2 diabetes induced-steatohepatitis. *Phytomedicine Plus*. 2021 Feb 1;1(1):100021.
14. Syed AA, Reza MI, **Husain A**, Singh P, Gayen JR. Applications of tailored polysaccharides in orthopedics. In *Tailor-Made Polysaccharides in Biomedical Applications 2020* Jan 1 (pp. 259-286). Academic Press.
15. Riyazuddin M#, **Husain A**#, Verma S, Katekar R, Garg R, Kumar S, Satish S, Maurya R, Narender T, Chattopadhyay N, Gayen JR. Simultaneous quantification of five biomarkers in ethanolic extract of *Cassia occidentalis* Linn. stem using liquid chromatography tandem mass spectrometry: application to its pharmacokinetic studies. *RSC Advances*. 2020;10(8):4579-88.
16. Singh P, Reza MI, Syed AA, Garg R, **Husain A**, Katekar R, Goand UK, Riyazuddin M, Gupta AP, Gayen JR. PSTi8 with metformin ameliorates perimenopause induced steatohepatitis associated ER stress by regulating SIRT-1/SREBP-1c axis. *Heliyon*. 2020 Dec 1;6(12):e05826.
17. Singh P, Garg R, Goand UK, Riyazuddin M, Reza MI, Syed AA, Gupta AP, **Husain A**, Gayen JR. Combination of Pancreastatin inhibitor PSTi8 with metformin inhibits Fetuin-A in type 2 diabetic mice. *Heliyon*. 2020 Oct 1;6(10):e05133.
18. Syed AA, Reza MI, Shafiq M, Kumariya S, Singh P, **Husain A**, Hanif K, Gayen JR. Naringin ameliorates type 2 diabetes mellitus-induced steatohepatitis by inhibiting RAGE/NF- κ B mediated mitochondrial apoptosis. *Life Sciences*. 2020 Sep 15;257:118118.
19. Katekar R#, Thombre G#, Riyazuddin M, **Husain A**, Rani H, Praveena KS, Gayen JR. Pharmacokinetics and brain targeting of trans-resveratrol loaded mixed micelles in rats following intravenous administration. *Pharmaceutical development and technology*. 2020 Mar 15;25(3):300-7.
20. Valicherla GR, Riyazuddin M, Shahi S, Gupta AP, Syed AA, **Husain A**, Gayen JR. LC-ESI-MS/MS assay development and validation of a novel antidiabetic peptide PSTi8 in mice plasma using SPE: An application to pharmacokinetics. *Journal of pharmaceutical and biomedical analysis*. 2020 Feb 20;180:113074.
21. Pal S, Mittapelly N, **Husain A**, Kushwaha S, Chattopadhyay S, Kumar P, Ramakrishna E, Kumar S, Maurya R, Sanyal S, Gayen JR. A butanolic fraction from the standardized stem extract of *Cassia occidentalis* L delivered by a self-emulsifying drug delivery system protects rats from glucocorticoid-induced osteopenia and muscle atrophy. *Scientific reports*. 2020 Jan 13;10(1):1-4.
22. Gupta AP, Syed AA, Garg R, Goand UK, Singh P, Riyazuddin M, Valicherla GR, **Husain A**, Gayen JR. Pancreastatin inhibitor PSTi8 attenuates hyperinsulinemia induced obesity and inflammation mediated insulin resistance via MAPK/NOX3-JNK pathway. *European journal of pharmacology*. 2019 Dec 1;864:172723.
23. Riyazuddin M, **Husain A**, Valicherla GR, Verma S, Gupta AP, Praveena KS, Singh A, Avula SR, Sashidhara KV, Datta D, Gayen JR. Development and validation of LC-MS/MS method for quantification of novel PP2A– β -catenin signalling inhibitor, S011-2111 in mice plasma: Application to its preclinical pharmacokinetic studies. *Journal of Chromatography B*. 2019 Nov 1;1130:121829.

24. Valicherla GR, Gupta AP, Hossain Z, Riyazuddin M, Syed AA, **Husain A**, Lahiri S, Dave KM, Gayen JR. Pancreastatin inhibitor, PSTi8 ameliorates metabolic health by modulating AKT/GSK-3 β and PKC α /SREBP1c pathways in high fat diet induced insulin resistance in peri-/post-menopausal rats. *Peptides*. 2019 Oct 1;120:170147.
25. Riyazuddin M, Valicherla GR, **Husain A**, Hussain MK, Shukla M, Katekar R, Gupta AP, Singh P, Banerjee D, Hajela K, Gayen JR. Elucidation of pharmacokinetics of novel DNA ligase I inhibitor, S012-1332 in rats: Integration of in vitro and in vivo findings. *Journal of pharmaceutical and biomedical analysis*. 2019 Jan 5;162:205-14.
26. Kaushik A[#], **Husain A[#]**, Awasthi H, Singh DP, Khan R, Mani D. Antioxidant and hepatoprotective potential of Swaras and Hima extracts of *Tinospora cordifolia* and *Boerhavia diffusa* in Swiss albino mice. *Pharmacognosy magazine*. 2017 Oct;13(Suppl 3):S658.
27. **Husain A[#]**, Kaushik A[#], Awasthi H, Singh DP, Khan R, Mani D. Immunomodulatory and antioxidant activities of fresh juice extracts of Brahmi and Guduchi. *Indian J Tradit Knowl*. 2017 Jul 1;16(3):498-505.
28. Valicherla GR, Tripathi P, Singh SK, Syed AA, Riyazuddin M, **Husain A**, Javia D, Italiya KS, Mishra PR, Gayen JR. Pharmacokinetics and bioavailability assessment of Miltefosine in rats using high performance liquid chromatography tandem mass spectrometry. *Journal of Chromatography B*. 2016 Sep 15;1031:123-30.

Patents (filled/accepted)

1. Kumar, S., Gaikwad, A. N., Chattopadhyay, N., Batra, S., Kanojiya, S., Tadigoppula, N., Mishra, P. R., Gayen, J.R., Bhatta, R. S., Goel, A., Bhosale, V. V., Singhal, A., Kumar, A., Rawat, P., Ghosh, A., **Husain, A.**, Sharma, C. P., Sharma, D., Kumar, A. K. S., Choudhury, A. D. Hesperidin as inhibitor of neutrophil extracellular trap formation and pharmaceutical formulation thereof. India patent filed on 12th September 2020. Application number: 202011039833
2. Chattopadhyay, N., Pal, S., Sudhir, K., Ramakrishna, E., Padam, K., Sapan, Gayen, J. R., Riyazuddin, M., Sanyal, S., Anagha, G., Mishra, P. R., Naresh, M., Ram, A. K., Kumar, B., Rath, S., Trivedi, A. K., Rakesh, M. Bioactive extract, fraction of *Cassia occidentalis* and formulation thereof for bone regeneration. United States patent filed on 07th June 2019. Application number: 16/434323. Support staff. Satish Chandra Tiwari and **Athar Husain**.

Scientific abstracts presented in National/International Conference/Symposia

1. **Husain A.**, Riyazuddin, M., Verma, S., Katekar, R., Syed A. A., Singh P Garg, R., and Gayen, J.R. (July 2021). Pharmacokinetics and interactions studies of ethanolic extract of *Cassia occidentalis* Linn. stem coadministered with commonly prescribed drugs for inflammatory and autoimmune diseases. Annual conference of Society for the Study of Xenobiotics (SSX-2021 India. Syngene Intl. Ltd., Bangalore.
2. **Husain, A.**, Riyazuddin, M., Verma, S., Katekar, R., Garg, R., and Gayen, J.R. (February 2020). Bioanalytical method development and validation for quantification of markers of ethanolic extract of *Cassia occidentalis* Linn stem: Application to its preclinical pharmacokinetic studies. 7th International Congress of the Society for Ethnopharmacology. School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi.
2. Syed, A. A., Reza M. I., Singh, P., **Husain, A.**, and Gayen, J. R. (January 2020). Protective Effect of *Cissus quadrangularis* Extract Against Rodent Model of Steatohepatitis by AGE/RAGE Inhibition. International Conference on Recent Advances in Engineering & Sciences-2020, Aligarh Muslim University, Aligarh
3. Riyazuddin, M., **Husain, A.**, Verma, S., Katekar, R., Singh, P., and Gayen, J.R. (September 2019). In vitro evaluation of metabolic drug interaction potential of novel DNA ligase I inhibitor, S012-

- 1332 through CYP phenotyping, inhibition and induction studies. 4th International Conference of the Society for the Study of Xenobiotics (SSX®). IISc, Bangalore.
4. **Husain, A.**, Riyazuddin, M., Valicherla, G.R., Syed, A.A., Singh, P., Sinha, A.K., and Gayen, J.R. (February 2019). In vitro and in vivo preclinical pharmacokinetic studies of novel anti-tubercular CDRI candidate drug molecule. 7th International Symposium on Current Trends in Drug Discovery and Research, CSIR-CDRI, Lucknow.
 5. Katekar, R., Thombre, G.S., Riyazuddin, M., **Husain, A.**, Verma, S., and Gayen, J.R. (February 2019). Brain targeting of trans resveratrol using mixed micelle carrier system. 7th International Symposium on Current Trends in Drug Discovery and Research, CSIR-CDRI, Lucknow.
 6. Gupta, A. P., Syed, A. A., Garg, R., Singh, P., Goand, U. K., Riyazuddin, M., Valicherla, G.R., **Husain, A.**, and Gayen, J.R. (February 2019). Pancreastatin inhibitor attenuates pancreastatin mediated chronic hyperinsulinemia induced obesity associated insulin resistance in adipose via NOX-3/JNK pathway. 9th World Congress of Diabetes "DIABETESINDIA 2019". Jaipur.
 7. Riyazuddin, M., Singh, P., **Husain, A.**, Katekar, R., Verma, S., and Gayen, J.R. (August 2018). PK-PD modeling of the antihyperglycemic interaction between PSTi8 and Metformin in diabetic rat model. 8th Annual Uppsala Pharmacometrics Summer School, Uppsala, Sweden, from 13th - 24th August.
 8. Riyazuddin, M., Shukla, M., Singh, R., Valicherla, G.R., Syed, A.A., **Husain, A.**, Sarkar, J., Sashidhara, K.V., and Gayen, J.R. (February 2016). In-vitro preclinical pharmacokinetic studies of novel anti-tumor CDRI candidate molecules S009-131 & S011-1992. 6th International Symposium on Current Trends in Drug Discovery and Research. CSIR-CDRI, Lucknow, India.
 9. Awasthi, H., **Husain, A.**, Singh, D.P., Kaushik, A., and Mani, D.N. (March 2015). Hepatoprotective efficacy of Phalatrikadi kwath: a classical Ayurveda preparation. International Conference on Medicinal Plants: Resources for Affordable new Generation Healthcare. CSIR-CIMAP, Lucknow.
 10. Singh, D.P., Awasthi, H., Kaushik, A., **Husain, A.**, and Mani, D.N. (March 2015). Characterization of prepared herbal formulation (cough syrup) and its anti-allergic effect on the mast-cell mediated allergic response). International Conference on Medicinal Plants: Resources for Affordable new Generation Healthcare. CSIR-CIMAP, Lucknow.
 11. Awasthi, H., **Husain, A.**, Singh, D.P., Kaushik, A., and Mani, D.N. (2014). Aushadhiyon me se ek maha aushadhi: Tulsi. SUGANDHA Rajbhasa Patrika. CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow.
 12. Singh, D.P., Awasthi, H., **Husain, A.**, Kaushik, A., and Mani, D.N. (February 2014). Importance of Herbal medicines science an ancient time period). Souvenir herbal Agri Business Guide in National Conference & Exhibition on Divine Medicinal Plants, Plants Based Medicinal Products, Panchyagavya and their Role in Integrated Rural Development. Vigyan Bhawan, New Delhi. Council for Development of Rural areas, CSIR, CSIR-NBRI & CIMAP, Lucknow, NMPB (AYUSH).

Conferences/Symposia Attended

1. Attended virtual Annual conference of Society for the Study of Xenobiotics (SSX-2021-India organized by Syngene Intl. Ltd., Bangalore. 14th to 17th July 2021.
2. "7th International Congress of the Society for Ethnopharmacology (SFEC-2020)" organized by school of pharmaceutical education and research, Jamia Hamdard, New Delhi, in association with Society for Ethnopharmacology, Chhattisgarh, Jadavpur, Kolkata, India, from 15th to 17th February 2020.
3. "7th international symposium on Current Trends in Drug Discovery and Research" organized by Central Drug Research Institute, Lucknow, from 20th -23rd February 2019.

4. "Abcam seminar" held at Central drug Research institute, Lucknow on 4th December 2018.
5. "National Seminar on Technological Advances in Pharmaceutical Education & Research" Organized by Mahatma Gandhi Institute of Pharmacy, Lucknow and IPA UP state branch & UPTU, held on 26th April 2010.

Workshops/Training Attended

1. Workshop on "Cell Culture Techniques and Cytotoxic Analysis" at the Institute of Food Processing & Technology, ONGC Centre of Advanced Studies, Lucknow University, Lucknow, from 15th to 17th November 2021.
2. Attended the "11th PAGIN Workshop on Population Pharmacokinetics data analysis and visualization" held at Tata Memorial Hospital, ACTREC, Navi Mumbai, from 17th -19th July 2019.
3. Attended "Workshop on Academic Publishing for Quality Research: How to Get Published & Avoid Pitfalls" jointly organized by CSIR-CDRI, Lucknow and Wiley held at CSIR-Central drug Research institute, Lucknow on 16th April 2019.
4. Attended "Workshop on Small Molecule Analysis by NMR Spectroscopy & Mass Spectrometry" held at CSIR-Central Drug Research Institute, Lucknow, from 12th to 14th December 2018
5. Attended the "10th PAGIN workshop on (i) Pharmacokinetics and R for data management & Visualization and (ii) Population Pharmacokinetics, Pharmacodynamics Models & applications" held at PSG IMS&R, from 25th to 29th June 2018.
6. Attended Training, Uttar Pradesh Drugs & Pharmaceuticals Company Limited (UPDPL), Lucknow (U.P.)-226001, from 16th July to 16th August 2011.

Computer Proficiency

Windows operating system and programs like Phoenix 6.3 (WinNonlin), GraphPad Prism, MS Office, Chem Office 11.0, Endnote 7, Mendeley, report drafting and presentations, scientific retrieval from various search engines (like Science Direct, PubMed, Scifinder, Google Scholar, etc.) and patent database.

Extracurricular Activities

- Reviewed research/review articles in the Phytomedicine Plus and Toxicology Letters journals
- I have been an active member of my college sports day.
- I have an anti-raging member during my B. Pharm study and achieved the Mr. Perfect award in 2012 by Mahatma Gandhi Institute of Pharmacy, Lucknow.
- I participated in the National Pharmacy Week camp on 07th October 2010 in Lucknow.

Leadership

- Managing team for the execution of *in-vitro* ADME and *in-vivo* preclinical pharmacokinetic experiments, biosample preparation and their analysis using LC-MS/MS &/ HPLC.
- I am actively involved in project management, project tracking, and completing milestones on a timely basis.

Language

English – Speak fluently and read/write with high proficiency

Hindi – Native language

Urdu – Speak, read, and write with basic competence

Arabic – Read, and write with basic competence

Professional Body Membership

- Registered Pharmacist in Uttar Pradesh Pharmacy Council of India.

Personal Profile

Father's Name : Late Hamid Husain
Mother's Name : Sajmul Nisha
Nationality : Indian
Date of Birth : 2nd July 1990
Marital Status : Married
Gender : Male
Permanent Address : Village-Mahuliya Khurd, Post- Mahuli, Dist-Sant Kabir
Nagar (UP), India-272172.

References**Dr. Jiaur Rahman Gayen**

Principal Scientist & Associate Professor AcSIR,
Pharmaceutics and Pharmacokinetics Division, CSIR-Central Drug Research Institute, Lucknow-
226031, India, Contact No. +91 8874201999, Email Id: jr.gayen@cdri.res.in

Dr. Wahajuddin

Principal Scientist & Associate Professor AcSIR,
Pharmaceutics & Pharmacokinetics Division, CSIR-Central Drug Research Institute, Lucknow
226031, India. Contact No. +919956880015, Email: wahajuddin@gmail.com

Prof. Zeashan Hussain

Director & Professor,
Mahatma Gandhi Institute of Pharmacy, Lucknow (U.P.)-227101, India, Contact No.
+919935844704, Email Id: zeashanhussain01@gmail.com

Declaration

I hereby declare that the above-mentioned information is correct up to my knowledge, and I bear the responsibility for the correctness of the above-mentioned particulars.

(ATHAR HUSAIN)