

Dr. Haritha C.V.

Division of Pharmacology and Toxicology, ICAR-Indian Veterinary Research Institute,
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Education

<u>YEAR</u>	<u>DEGREE/ EXAMINATION</u>	<u>UNIVERSITY/ BOARD</u>	<u>GRADE</u>
2021-2025	Doctor of Philosophy (Ph.D.), Veterinary Pharmacology & Toxicology	Indian Veterinary Research Institute, Izatnagar, Bareilly, India	8.287/10.0
2019-2021	Master of Veterinary Science (M.V.Sc.), Veterinary Pharmacology & Toxicology	Indian Veterinary Research Institute, Izatnagar, Bareilly, India	8.668/10.0
2013-2019	Bachelor of Veterinary Science (B.V.Sc.)	Kerala Veterinary and Animal Sciences University, Kerala, India	7.414/10.0

Work & Research Experience

PhD | 2021-2025, DIVISION OF PHARMACOLOGY AND TOXICOLOGY, ICAR-INDIAN VETERINARY RESEARCH INSTITUTE, INDIA

- Thesis – Studying the effects of Betulinic Acid on age-related biochemical, molecular and histological alterations in the kidney of rats

MVSC | 2019-2021, DIVISION OF PHARMACOLOGY AND TOXICOLOGY, ICAR-INDIAN VETERINARY RESEARCH INSTITUTE, INDIA

- Thesis: Investigating the effects of Sigma 1 receptor agonist (PRE-084) on the renal epithelial to mesenchymal transition process in the rat model of chronic kidney disease.
- **Expertise in:** Western blotting, Zymography, Immunohistochemistry, PCR, Real-Time PCR, ELISA, Gel electrophoresis, UV Spectrometry, Chromatography, *In vitro* explant culture, Primary cell culture, Fluorescence microscopy, Flow cytometry, Laboratory animal handling and management, Lab animal dosing and blood collection.

Awards and Scholarships

1. **Dr. A.M. THAKER YOUNG WOMEN SCIENTIST AWARD** - Awarded by Indian Society of Veterinary Pharmacology and Toxicology (2023)
2. All India rank holder (3rd rank) in ICAR SRF entrance in Veterinary Pharmacology & Toxicology (2021)
3. Winner of **ICAR-SRF** (2021-2023)

4. All India rank holder (34th rank) in ICAR Veterinary PG entrance (2019)
5. Winner of **ICAR-JRF** (2019-2021)
6. E-Grantz Scholarship (2013-2018)
7. National Talent Search Scholarship (2010-2012)
8. Best poster presentation award – **First Prize** – 23rd conference of ISVPT (2023)
9. Best oral presentation award – **Second Prize** - 23rd conference of ISVPT (2023)
10. Best poster presentation award – **Second Prize** – 24th conference of ISVPT (2024)

Articles & Book Chapters

1. **Haritha, C.V.**, Lingaraju, M.C., Mathesh, K., Jadhav, S.E., Shyamkumar, T.S., Aneesha, V.A., Parida, S., Singh, T.U. and Kumar, D., 2022. PRE-084 ameliorates adenine-induced renal fibrosis in rats. *Tissue and Cell*, 79, p.101905. (**NAAS Score: 8.7**)
2. Johnson, B.E., **Haritha, C.V.**, Mathesh, K., Vamadevan, B., Sharma, A., Aneesha, V.A., Jadhav, S.E., Parida, S., Singh, T.U. and Lingaraju, M.C., 2025. Weekly administration of betulinic acid prevents development of chronic renal failure from acute renal failure in folic acid-induced mouse model of kidney injury. *Naunyn-Schmiedeberg's Archives of Pharmacology*, pp.1-13 (**NAAS Score: 9.1**)
3. **Haritha, C. V.**, Sharun, K., & Jose, B. (2020). Ebselen, a new candidate therapeutic against SARS-CoV-2. *International journal of surgery*. 84: 53–56. (**NAAS Score:20**)
4. Sharun, K., Rahman, C. F., **Haritha, C. V.**, Jose, B., Tiwari, R., & Dhama, K. (2020). Covid-19 vaccine acceptance: Beliefs and barriers associated with vaccination among the general population in india. *Journal of Experimental Biology and Agricultural Sciences*, 8(Special Issue 1).
5. Sharun, K., **Haritha, C. V.**, Jambagi, K., Chandran, D., Yattoo, M. I., Tuli, H. S., & Dhama, K. (2021). Potential Herbs for the Management of Urolithiasis in Veterinary Medicine-A Mini Review. *Indian Vet. J*, 98(06), 09-16.
6. Sharun, K., **Haritha, C.V.**, Singhal, T., Nair, S.S., Yattoo, M.I., Chakraborty, S., Jambagi, K., Tuli, H.S. and Dhama, K., 2021. Potential Herbs for Bovine Mastitis Research-A Mini Review. *Indian Vet. J*, 98(04), pp.09-16.
7. Manjusha, K. M., Sharun, K., **Haritha, C. V.**, Lekshmi, S. A., Faslu, A. T., Rahman, K. S., & Sivaprasad, M. S. (2020). Management of Post-Partum Uterine Eversion in a Doe Using Retention Sutures. *Int J Livest Res*, 10(1), 88-93.

8. **Haritha, C. V.**, Khan, S., Dhama, K., & Rodriguez-Morales, A. J. SARS, MERS, and COVID-19: A Paradigm of Emerging Zoonotic Diseases. Zoonoses: Infectious diseases affecting humans and animals. ISBN: 978-93-5426-027-8.
9. Gari, M., Sharma, M., Suhas, K.S., **Haritha, C.V.**, Kishorkumar, D.G., Madhu, C.L., Sharma, A., Aneesha, V.A., Parida, S. and Singh, T.U., 2024. Effect of low dose of niclosamide ethanolamine on morphometric parameters in isoprenaline-induced cardiac injury.
10. Gari, M., Sharma, M., Suhas, K.S., **Haritha, C.V.**, Meena, M., Kishorkumar, D.G., Madhu, C.L., Aneesha, V.A., Sharma, A., Parida, S. and Singh, T.U., Effect of niclosamide ethanolamine on the serum oxidative stress markers in cardiac injury.

Popular articles

1. **Haritha C. V.**, Khan Sharun, Manjusha K. M. and Amitha Banu S., 2019. Toxicological aspects of common plant poisoning in ruminants. Indian Farmer. 6(11): 812-822.
2. Sharun Khan, Manjusha, K M, Amitha Banu S, **Haritha C V**, Rohit Kumar, A M Pawde and Amarpal. 2020. Surgical Affections of Udder and Teats in Large Ruminants. Raksha Technical Review. 9(2)
3. Ravi Prakash G, Subhashree Parida, Thakur Uttam Singh, Madhu C Lingaraju, **Haritha C V**, Sunita Kumawat, Ayushi V. 2023. Novel strategies to modulate cytokine action for therapy. The Science World. 3(9), 2438–2443.
4. **Haritha C. V.**, Sunita Kumawat, Ravi Prakash G and Madhu C. Lingaraju. 2024. Application of Artificial Intelligence in drug discovery: A new paradigm in drug designing. The Science World. 4(3): 901-904

Technical Writing

1. **C.V. Haritha**, Bency Elsa Johnson, V.A. Aneesha, Subhashree Parida, M. Kesavan, Thakur Uttam Singh, Dinesh Kumar and Madhu C. Lingaraju. 2022. Routine protein quantitative techniques used in pharmacological and toxicological research. SERB-Sponsored High-End Workshop (Karyashala). Advanced Techniques in Pharmacology and Toxicology Research.
2. Madhu C. Lingaraju, **C.V. Haritha**, Bency Elsa Johnson, Subhashree Parida, Ranjith D, Shyam Kumar T S, M. Kesavan, Thakur Uttam Singh and Dinesh Kumar. 2022. Gene

expression techniques : RNA isolation from tissue and cDNA preparation. SERB-Sponsored High-End Workshop (Karyashala). Advanced Techniques in Pharmacology and Toxicology Research.

3. **C.V. Haritha**, Bency Elsa Johnson, Kishor Kumar D.G., Anshuk Sharma, Subhashree Parida, Thakur Uttam Singh and Madhu C. Lingaraju. 2022. Polymerase chain reaction and detection of its products using agarose gel electrophoresis. SERB-Sponsored High-End Workshop (Karyashala). Advanced Techniques in Pharmacology and Toxicology Research.

4. Bency Elsa Johnson, **C.V. Haritha**, V.A. Aneesha, Meemansha Sharma, Subhashree Parida, Thakur Uttam Singh, Dinesh Kumar and Madhu C. Lingaraju. 2022. Protein expression studies using western blot. SERB-Sponsored High-End Workshop (Karyashala). Advanced Techniques in Pharmacology and Toxicology Research.

5. **C.V. Haritha**, Bency Elsa Johnson, Madhu C. Lingaraju, Subhashree Parida, M. Kesavan, Anshuk Sharma, Thakur Uttam Singh and Dinesh Kumar. 2022. Protein assay methods used in the pharmacological and toxicological research. Training in Advanced Pharmacological Techniques. Sponsored by SERB- Accelerate Vigyan, Organized by Division of Pharmacology & Toxicology, ICAR-IVRI.

6. T.S. Shyam Kumar, **C.V. Haritha**, M. Kesavan, V.A. Aneesha, Meemansha Sharma, Anshuk Sharma and Dinesh Kumar. 2022. Patch-clamp technique for electrophysiological recording. Training in Advanced Pharmacological Techniques. Sponsored by SERB- Accelerate Vigyan, Organized by Division of Pharmacology & Toxicology, ICAR-IVRI.

7. Bency Elsa Johnson, **C.V. Haritha**, Madhu C.L., Meemansha Sharma, Subhashree Parida, Ranjith D, T.U. Singh and Dinesh Kumar. 2022. Western blot for detection of proteins. Training in Advanced Pharmacological Techniques. Sponsored by SERB- Accelerate Vigyan, Organized by Division of Pharmacology & Toxicology, ICAR-IVRI.

8. Madhu C.L., Bency Elsa Johnson, **C.V. Haritha**, D.G. Kishor Kumar, Ranjith D, T.S. Shyam Kumar, V.A. Aneesha and M. Kesavan. 2022. Western blot image analysis using ImageJ software. Training in Advanced Pharmacological Techniques. Sponsored by SERB- Accelerate Vigyan, Organized by Division of Pharmacology & Toxicology, ICAR-IVRI.

Conference Abstracts

1. **Haritha C.V.**, Sunita Kumawat, Anshuk Sharma, V. A. Aneesha, Subhashree Parida, Thakur Uttam Singh, Madhu Cholenahalli Lingaraju. Betulinic acid limits age-related renal filtration barrier impairment by reducing renal oxidative stress in old rats. *XXIV Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology*. 2024.
2. **Haritha C.V.**, Madhu C.L., Mathesh K., Jadhav S.E., Shyamkumar T.S., Aneesha V.A., Parida S. and Singh T.U. PRE-084, a sigma-1 receptor agonist reduced acquisition of profibrotic changes in the kidney of adenine fed rats. *XXIII Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology*. November 02-04, 2023.
3. Elizabeth Glanet Durom, Aneesha V.A., Pavankumar N.V., **Haritha C.V.**, Karikalan M., Madhu C.L., Patra M.K., Parida S Telang A.G., and Singh T.U. Evaluation of postnatal reproductive toxicity of gestational exposure of ethion in rats. *XXIII Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology*. November 02-04, 2023.
4. Johnson B.E., **C.V. Haritha**, Mathesh K., Vamadevan B., Sharma A., Aneesha V.A., Jadhav S.E., Parida S., Singh T.U. and Madhu C.L. Weekly administration of betulinic acid ameliorated oxidative kidney damage in mouse model of AKI-CKD transition. *XXIII Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology*. November 02-04, 2023.
5. Johnson B.E., **C.V. Haritha**, Mathesh K., Vamadevan B., Sharma A., Aneesha V.A., Jadhav S.E., Parida S., Singh T.U. and Madhu C.L. Betulinic acid prevents CKD changes after AKI in the mouse AKI-CKD transition model. *XXIII Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology*. November 02-04, 2023.
6. Shyamkumar T.S., Venkata Pavan Kumar N., Elizabeth Glanet Durom, **Haritha C. V.**, Aneesha V.A., Sharma A., Sharma M., Saminathan M., Madhu C.L., Parida S., Telang A.G., and Singh T.U. Evaluation of therapeutic potential of ursodeoxycholic acid (UDCA) in lantana induced cholestasis in Guinea pigs. *XXIII Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology*. November 02-04, 2023.

CONFERENCE AND WORKSHOPS ATTENDED

1. Annual conference of Indian Society of Veterinary Pharmacology and Toxicology – MATHURA 2020
2. International workshop on HUMAN HEALTH RISK ASSESSMENT sponsored by Society of Toxicology, USA organized by Chitkara University, India.
3. National Workshop on ‘Application of Artificial Intelligence in Animal Science’-2019 organized by Indian Veterinary Research Institute.
4. High-End workshop (karyashala) sponsored by SERB (DST), on “Advances in Research Methodologies and Innovations in Avian Biology: Integrating Genomics and Phenomics” from July 22-31, 2023 organized by ICAR-Central Avian Research Institute, Izatnagar, UP.
5. Annual conference of Indian Society of Veterinary Pharmacology and Toxicology – Bikaner 2023.
6. Annual conference of Indian Society of Veterinary Pharmacology and Toxicology – Mathura 2024.
7. 21 days online training program on “Concepts and Applications of Pharmacology for meeting challenges of One Health in 21st Century” organized by Nanaji Deshmukh Veterinary Science University, Jabalpur.
8. Attended Value-Added course on “Experimental Animal Models for Biomedical Research” held at Division of Pharmacology & Toxicology, ICAR-IVRI.

Professional Affiliations/ Memberships

1. Life member of Indian Society of Veterinary Pharmacology and Toxicology (ISVPT)
2. Member of Society of Toxicology (SOT), USA.
3. Member of Kerala State Veterinary Council
4. Member of Indian Veterinary Association (IVA), Kerala unit.
5. Veterinary Council of India, (VCI).

Positions held

1. Student nominee of Board of Studies in Veterinary Pharmacology & Toxicology discipline, ICAR-IVRI (2022-2023)
2. Student nominee of Internal Quality Assurance Cell team of ICAR-IVRI.

Other Technical Skills

- Proficiency in MS Office, Graphpad prism, SPSS, Image J, PrimeQuest.

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