



Curriculum Vitae

Milindmitra K Lonare

Assistant Professor

(Ph.D.)

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Veterinary Pharmacology and Toxicology,
College of Veterinary Science,
Guru Angad Dev Veterinary and Animal
Sciences University, Ludhiana-141001

OBJECTIVE

- Commitment to accept new challenges and work with a highly motivated and goal-oriented team in an organization of repute

PROFFESIONAL QUALIFICATIONS

1. **B.V.Sc. & A.H. (Bachelor of Veterinary Science): 1997 – 2002**
Institute: Nagpur Veterinary College, Nagpur, MAFSU Nagpur, Maharashtra.
OGPA: 7.96/ 10.00
2. **M.V.Sc. (Veterinary Pharmacology and Toxicology): 2002 – 2004**
Institute: College of Veterinary & Animal Sciences, CSK.HPKV, Palampur India.
Major subject: Pharmacology & Toxicology
Minor subject: Microbiology & Immunology, Biostatistics
OGPA: 8.16 / 10.00
Thesis title: Studies on the Immunomodulatory Effect of *Hippophae rhamnoides* (seabuckthorn).
3. **Ph.D. (Veterinary Pharmacology): 2006 – 2011**
Institute: Indian Veterinary Research Institute (IVRI), Izatnagar, Bareilly, India
Major subject: Pharmacology
Minor subject: 1. Animal Biotechnology, 2. Animal Biochemistry
OGPA: 7.782 / 10.00
Thesis title: *Toxicological Investigation of Imidacloprid With Special Reference to Male Reproductive Toxicity in Rats.*

POSITION HOLD: Present

- **Current Position :**
Assistant Professor, Veterinary Pharmacology and Toxicology, COVASc. Ludhiana, GADVASU, Ludhiana (21.03.2013 to till date).
 - Additional In-Charge: I/c Large Animal Experimental House.
- **Assistant Professor**, Veterinary Pharmacology and Toxicology, Post Graduate Institute of Veterinary and Animal Sciences, Akola, MAFSU-Nagpur. (11.4.2008 to 15.03.2013, resign).
 - Additional In-Charge: I/c Small Laboratory Animal House, PGIVAS, Akola

RESEARCH SCHEME / TESTING PROJECTS HANDLED

Student research work (Student guided):

1. Exploring the potential effects of bio-antioxidants against arsenic induced toxicity on buffalo adipose-derived mesenchymal stem cells (**Presently**)
2. Toxicological investigation of carbendazim and imidacloprid on mesenchymal stem cells derived from buffalo bone-marrow (**Presently**)
3. Safety assessment of a polyherbal formulation in dairy cattle (**Presently**)

4. Screening and combinational approach to improve the anthelmintic activity of herbal medicinal plants (**Presently**)
5. Immunotoxicological investigation of carbendazim and its amelioration by vitamin c in male wistar rats.
6. Neurotoxicological evaluation of carbendazim exposure and its amelioration by quercetin in rats
7. *In vivo* toxicological evaluation of interactive effect of carbendazim and imidacloprid.
8. Nephroprotective effect of *Tenospora cardiofolia* against gentamicin induced nephrotoxicity in male wistar rats.
9. Effect of Meloxicam on Pharmacokinetics study of Moxifloxacin in male Goat.

Extramural research projects (Pi/Co-pi):

1. Effect of extracts of *Aarjun* on isolated rat/rabbit heart (2009; **Co-PI**) (Agency: Vidya sane group, Thane, Mumbai, India).
2. Bioequivalence studies of Florfenicol 10 % and 20% w/v in poultry model birds: broiler & layer (2008-10; **Co-PI**). (Agency: Bayer pvt. ltd. Thialand).
3. Acute and sub-acute toxicity studies of Solar Drop (2009; **PI**) (Agency: CCRAS New Delhi)
4. Bioequivalence study of Flunixin meglumine and OTC combination in Pigs (2009-10; **PI**) (Agency: Bayer pvt. ltd. Thialand).
5. Clinical application of bone marrow derived mesenchymal stem cells from buffalo for allogeneic and xenogeneic cutaneous regeneration of chronic wounds. (Agency: UGC; Duration 2015-18; **Co-PI**)
6. Therapeutic potential of medicinal plants in veterinary Practice (Agency: RKVY Duration 2018-19; **Co-PI**)
7. Clinical evaluation of efficacy of AYUSH V-24 (a coded Ayurvedic formulation) in the management of selected gastro intestinal illness in ruminants. (Agency: CCRAS; Duration 2019-22; **Co-PI**)
8. Clinical evaluation of efficacy of Ayurvedic formulation for augmentation of Milk production in ruminants. (Agency: CCRAS; Duration 2019-22; **Co-PI**).
9. Promotion of Ethno-Veterinary Practices (EVP) for Sustainable Animal Healthcare and Management of Parasitic Infestations. (Agency: RKVY; Duration 2021-23; **PI**).

RESEARCH WORK as Research Fellow

1. **Senior Research Fellow** in Project entitled *All India Co-ordinate Research Project on "Improvement of Feed Resources and Nutrient Utilization for Raising the Animal Production"* at Veterinary Physiology, COVAS, CSK HPKV, Palampur, HP (15/1/2005- 30/9/ 2006).
2. **Senior Research Fellow** in Project entitled "*Characterization and Conservation of Chegu goats*" at Animal Breeding, Genetics and Bio-statistics, COVAS, CSK HPKV, Palampur, HP (27/8/2004 to 30/12/2004).

TRAININGS: 3

1. 21 days short course cum hands on training "Recent Advances in Stem Cell Research" organized by Center for Advance Faculty Training in Division of Veterinary Physiology, IVRI Izatnagar under the ICAR w.e.f. February 15 –march 7, 2010.
2. 10 days short course on "Application of molecular Pharmacology Techniques in Drug Development", organized by IVRI Izatnagar under ICAR w.e.f. October 4-13, 2010.

3. 10 days short course on “*In vitro* Toxicodynamics” organized by IVRI Izatnagar under ICAR w.e.f. September, 5-14, 2011.

ACADEMIC ACHIEVEMENTS

1. First Best Research Poster Award in National Symposium of Indian Society of Buffalo Development (ISBD-2021)
2. First Best Research Poster Award Received (Toxicology Research)- ISVPT-2020
3. Third Best Research Poster Award received (Nano Sciences)-ISVPT-2020
4. Best Poster Award: Singh SK, Sharma SK, Lonare MK, Parihar AS. 2018. Radioprotective effect of Geranin on Gamma irradiation induced apoptosis and expression of p53, Bcl-2 and Bax in C57BL/6 mice.
5. Best Research Paper Award for publication in ISVPT-2018: Manoj V, Lonare MK, Rajdeep Kaur and Saini SPS. 2017. In vitro assessment of Cyp-mediated metabolism and kinetics of lincomycin in sheep using S9 fraction. *Journal of Veterinary Pharmacology and Toxicology*. 16(1):51-57.
6. Best Poster Award: Devi P, Sharma M, Singh DV, Lonare MK, Udehiya. 2017. Viability and expression pattern of cryopreserved mesenchymal stem cells derived from buffalo bone marrow 2017. KAFSU, Bidar, Karnataka.
7. Dr. V.V. Ranade **Young Scientist Award-2012** for best research oral presentation in ISVPT-2012 in Bangalore.
8. **Best Poster Award** for the best research poster display in ISVPT-2012 in Bangalore.
9. Qualified Indian Council of Agricultural Research National Eligibility Test (**ICAR-NET**) in Veterinary Pharmacology and Toxicology-2003 & 2006
10. Qualified Senior Research fellowship of **ICAR-SRF- 2007** for Doctoral Programme.
11. Recipient of Senior Research fellowship (SRF) for Doctoral Programme-2006-2009
12. Recipient of Junior Research Fellowship (JRF) of ICAR for perusing Master's Programme-2002-2004
13. Recipient of Merit Fellowship in Master's Programme
14. Certified Honour during M.V.Sc. programme
15. Awarded as Gold Medal and Honour for the M.V.Sc. programme honoured by Himotkarsh Sahitya Sanskrit Avam Jan Kalyan Parishad, Una, Himachal Pradesh, India.

PUBLICATIONS:

Research Papers published

1. Kumar M, Lonare MK, Telang AG. 2022. Testicular toxicity induced by T-2 toxin and protective effect of vitamin E in Wistar rats. *Periodicum biologorum*. 22;124(3-4):123-35.
2. Patil NV, Lonare MK, Sharma M, Deshmukh S, Gupta K, Sharma SK. Ameliorative effect of quercetin on Neurotoxicological alterations induced by carbendazim: oxidative stress, biochemicals, and histopathology. *Proc Natl Acad Sci India Sect B Biol Sci*. 2022. doi:[10.1007/s40011-022-01420-9](https://doi.org/10.1007/s40011-022-01420-9).
3. Singh H, Lonare MK, Sharma M, Udheya R, Singla S, Dumka VK. Toxicological sequelae of pesticide combinations exposure in buffalo mesenchymal stem cells under in vitro. *Toxicol Int*. 2022;29(1):1-14. doi:[10.18311/ti/2022/v29i1/24000](https://doi.org/10.18311/ti/2022/v29i1/24000).

3. Mir AH, Dumka VK, Sultan F, Lonare MK. Genotoxic effects of drospirenone and ethinylestradiol in human breast cells (in vitro) and bone marrow cells of female mice (in vivo). *Drug Chem Toxicol.* 2022;45(4):1493-1499. doi:[10.1080/01480545.2020.1843473](https://doi.org/10.1080/01480545.2020.1843473).
4. Sharma DK, Sharma SK, Lonare MK, Kaur R, Dumka VK. Pharmacological Evaluation of Antipyretic, analgesic and anti-inflammatory Activities of ethanolic Extract of Cassia fistula. 2022/4/1. *Indian J Anim Res.* 2022;56(4):483-488.
5. Dinesh MB, Sharma SK, Lamba JS, Lonare MM, Singh SK. PK-PD of marbofloxacin along with meloxicam after single intramuscular administration in buffalo calves, The Pharma Innovation [journal]. SP-11. 2022;1:857-861.
6. Lalhriatpuia PC, Lonare MK, Kaur R, Sharma SK, Rampal S. Protective effect of vitamin C on carbendazim induced hemato-biochemical alterations in male rats. *J Vet Pharmacol Toxicol.* 2021;20(1):70-76.
7. Singh H, Lonare MK, Sharma M, et al. Interactive effect of carbendazim and Imidacloprid on buffalo bone marrow derived mesenchymal stem cells: oxidative stress, cytotoxicity and genotoxicity. *Drug Chem Toxicol.* 2021;2021:1-15. doi:[10.1080/01480545.2021.2007023](https://doi.org/10.1080/01480545.2021.2007023).
8. Raut Akash SainiSPS, Lonare M, Anand A, Kaur R, Kumar D, Dumka VK. Influence of general anaesthesia on disposition kinetic of ceftiofur in Buffaloes with diaphragmatic hernia. *Rumin Sci.* 2021;10(1):147-154. <http://hdl.handle.net/123456789/1624>.
9. Devi KK, Lonare M, Singla S, Sharma SK, Dumka VK, Saini SPS. Estimation of in-vitro plasma protein binding of ampicillin in horses based on spectrophotometric method. *J Anim Res.* 2020;10(3):353-357. doi:[10.30954/2277-940X.03.2020.4](https://doi.org/10.30954/2277-940X.03.2020.4).
10. Sidhu A, Singla N, Lonare M, Mahal AK. Effect of quineestrol on body weight, vital organs, biochemicals and genotoxicity in adult male lesser bandicoot rat, *Bandicota bengalensis*. *Pestic Biochem Physiol.* 2020;165:104544. doi:[10.1016/j.pestbp.2020.02.010](https://doi.org/10.1016/j.pestbp.2020.02.010).
11. Kaur N, Sharma M, Lonare MK, Udehiya R, Singh D. Bio-antioxidants protect the buffalo bone marrow derived mesenchymal stem cells against oxidative stress induced during freeze-thaw cycle. *Toxicol Int.* 2021;28(1):17-30. doi:[10.18311/ti/2021/v28i1/24809](https://doi.org/10.18311/ti/2021/v28i1/24809).
12. Kaur N, Sharma M, Lonare MK, Singh D. Cytoprotective potential of curcumin and resveratrol during freezethaw cycle of buffalo bone marrow derived mesenchymal stem cells. *Rumin Sci.* 2021;9(2):215-222.
13. Sultan F, Kaur R, Mir AH, et al. Rosuvastatin and retinoic acid may act as “pleiotropic agents” against β -adrenergic agonist-induced acute myocardial injury through modulation of multiple signalling pathways. *Chem Biol Interact.* 2020;318:108970. doi:[10.1016/j.cbi.2020.108970](https://doi.org/10.1016/j.cbi.2020.108970).
14. Bhardwaj P, Sidhu PK, Lonare MK, Kaur R, Dumka VK, Rampal S. Pharmacokinetic-pharmacodynamic integration of marbofloxacin after single and repeated intravenous administration in goats. *Res Vet Sci.* 2018;121:111-115. doi:[10.1016/j.rvsc.2018.10.010](https://doi.org/10.1016/j.rvsc.2018.10.010).
15. Sagar R, Dumka VK, Kaur R, Lonare MK. In-vivo analgesic and in-vitro cytoprotective potential of various leaf extracts of Pongamia pinnata. *J Anim Res.* 2019;9(1):159-165. doi:[10.30954/2277-940X.01.2019.22](https://doi.org/10.30954/2277-940X.01.2019.22).
16. Lonare MK, Manoj Kumar More A and Telang A. *Toxicol Int.* 2019. Toxicological Investigation of Single Oral Dose Administration of Imidacloprid in Male Wistar Rats;26(1):8-14.
17. Bhardwaj P, Sidhu PK, Lonare MK, Kaur R, Dumka VK, Rampal S. Pharmacokinetic-pharmacodynamic integration of marbofloxacin after single and repeated intravenous administration in goats. *Res Vet Sci.* 2018;121:111-115. doi:[10.1016/j.rvsc.2018.10.010](https://doi.org/10.1016/j.rvsc.2018.10.010).
18. Sagar R, Dumka VK, Kaur R, Lonare MK. In-vivo analgesic and in-vitro cytoprotective potential of various leaf extracts of Pongamia pinnata. *J Anim Res.* 2019;9(1):159-165. doi:[10.30954/2277-940X.01.2019.22](https://doi.org/10.30954/2277-940X.01.2019.22).
19. Doltade S, Lonare M, Raut S, Telang A. Protective effect of curcumin on acetamidiprid mediated oxidative stress and pathological changes in male rats. *Proc Natl Acad Sci India Sect B Biol Sci.* 2019;89(1):191-199. doi:[10.1007/s40011-017-0934-0](https://doi.org/10.1007/s40011-017-0934-0).
20. Manoj V, Lonare MK, Bhadra C, Kaur R, Saini SPS. Identification of liver cytochrome enzymes involvement in lincomycin metabolism in goat. *Rumin Sci.* 2018;7(2):217-224.

21. Devi P, Sharma M, Singh DV, Lonare MK, Udehiya. Viability and expression pattern of cryopreserved mesenchymal stem cells derived from buffalo bone marrow. *Rumin Sci.* 2017;6(1):7-12.
22. Manoja V, Lonare MK, Kaur R, Saini SPS. In vitro assessment of Cyp-mediated metabolism and kinetics of lincomycin in sheep using S9 fraction. *J Vet Pharmacol Toxicol.* 2017;16(1):51-57.
23. Patil NV, Lonare MK, Lalhriatpuia PC, Sharma M, Saini SP, Rampal S. Effect of carbendazim exposure on hemato-biochemical alterations and oxidative stress in male rats: protective effect of quercetin. *Toxicol Int.* 2018;25(1):1-12. doi:[10.22506/ti/2018/v25/i1/21569](https://doi.org/10.22506/ti/2018/v25/i1/21569).
24. Lonare MK, Vemu B, Singh AK, Dumka VK, Singla S, Sharma SK. Cytotoxicity and oxidative stress alterations induced by aldrin in BALB/c 3T3 fibroblast cells. *Proc Natl Acad Sci India Sect B Biol Sci.* 2017;87(4):1209-1216. doi:[10.1007/s40011-015-0694-7](https://doi.org/10.1007/s40011-015-0694-7).
25. Lonare MK, Vemu B, Singh AK, Singla S, Sharma SK. Evaluation of aldrin-induced oxidative stress and apoptosis in J774 macrophages. *Toxicol Int.* 2017;22(2):1209-1216. doi:[10.22506/ti/2015/v22/i2/137668](https://doi.org/10.22506/ti/2015/v22/i2/137668).
26. Lonare M, Kumar M, Raut S, Badgujar P, Doltade S, Telang A. Evaluation of ameliorative effect of curcumin on Imidacloprid-induced male reproductive toxicity in Wistar rats. *Environ Toxicol.* 2015. doi:[10.1002/tox.22132](https://doi.org/10.1002/tox.22132).
27. Rathod NR, Kukade SV, Lonare MK, Hajare SW. Influence of meloxicam on pharmacokinetic alterations of moxifloxacin in male goats. *Rumin Sci.* 2015;4:1.
28. Goyal S, Dumka VK, Sharma M, Lonare MK, Sharma SK. Safety evaluation of lincomycin following repeated administration of lincomycin in goat. *Toxicol Int.* 2015;22(3):92-95.
29. Lonare M, Kumar M, Raut S, Badgujar P, Doltade S, Telang A. Evaluation of Imidacloprid-induced neurotoxicity in male rats: A protective effect of curcumin. *Neurochem Int.* 2014;78:122-129. doi:[10.1016/j.neuint.2014.09.004](https://doi.org/10.1016/j.neuint.2014.09.004).
30. Teltumbde AK, Wahurwagh AK, Lonare MK, Nesari TM. Effect of Yashtimadhu (*Glycyrrhiza glabra*) on intelligence and memory function in male adolescents. *Scholars J Appl Med Sci.* 2013;1(2):90-95.
31. Hajare SW, Lonare MK, Kumar D. Paralytic effect of Peganum harmala Linn. alcoholic extract on *Fasciola gigantica*. *J Vet Pharmacol Toxicol.* 2012;11(1-2):53-55.
32. More AS, Kumari RR, Gupta G, et al. Effect of S-methylisothiourea in acetaminophen-induced hepatotoxicity in rat. *Naunyn-Schmiedeberg's Arch Pharmacol.* 2012;385(11):1127-1139. doi:[10.1007/s00210-012-0789-0](https://doi.org/10.1007/s00210-012-0789-0).
33. Lonare MK, Varshneya C, Telang RS, Kurade NP. Evaluation of humoral immune response of seabuckthorn (*Hippophae rhamnoides*) berries supplementation in white leghorn chicks. *Himachal J Agric Res.* 2009;34(2):150-152.
34. Lonare MK, Sharma M, Ramteke VD. Mineral status of seabuckthorn leaves in cold desert Himalayan region. *Indian Vet J.* 2007;84:1315-1316.
35. Lonare MK, Varshneya C, Kurade NP, Sharma M, Ramteke VD. Evaluation of cell mediated immune response of *Hippophae rhamnoides* (seabuckthorn) berries in poultry. *Indian Vet J.* 2008;86:247-249.
36. Ramteke VD, Vadlamudi VP, Waghmare SP, Handa A, Lonare MK. Evaluation of anthelmintic activity of indigenous herbal formulation in goats. *Indian Vet J.* 2008;85:1157-1159.
37. Sharma KB, Kumar R, Lonare MK. Mineral profile of high altitude dairy cattle of Himachal Pradesh. *Himachal J Agric Res.* 2006;32(2):117-121.

Practical Manuals: 5

- A hand book of CNS pharmacology (VPT 603) (2012 ed.). Edited by Milindmitra K Lonare, Sunil W Hajare and Vivek Borekar.
- Practical manual of Toxicology of Xenobiotics (VPT 608) (2012 ed.). Edited by Milindmitra K Lonare.
- Laboratory manual for 3rd professional Veterinary Pharmacology and Toxicology Part-I.

- Laboratory manual for 3rd professional Veterinary Pharmacology and Toxicology Part-II
- Development of online (Tutorial) Audio-video Practical programme prepared and uploaded on Youtube “Practicals in Veterinary Pharmacology and Toxicology” for Undergraduates under IDP-ICAR grant.

Publications in Conferences/ Symposia/ Seminars (Presentations): 69

Seminars presented:

1. **Pharmacology of Seabuckthorn** (*Available for online assess on internet*)
2. **Seabuckthorn:** a panacea for animal health and production (*Available for online assess on internet*)
3. **Drug Transporter**

PROFFESIONAL AFFILIATIONS

1. Lifetime member of Maharashtra State Veterinary Council (MSVC)
2. Lifetime member Veterinary Council of India (VCI)
3. Lifetime member of ‘The Indian Society of Veterinary Pharmacology and Toxicology
4. Member of The International Society of Regulatory Toxicology and Pharmacology.
5. Member of European Society of Toxicology *in-vitro*
6. Editor in chief - Toxicology International (**Presently**)
7. Editorial Board Member - Journal of Pathology and Toxicology
8. Associate Editor -Toxicology International (2017-18)
9. Executive body member of Society of Toxicology India (STOX)