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Educational Qualifications	<p>1999 B.V.Sc & A.H., PAU, Ludhiana, Punjab</p> <p>2001 M.V.Sc (Vet. Biochemistry), PAU, Ludhiana, Punjab</p> <p>2005 PhD (Animal Biochemistry), IVRI, Izatnagar, U. P.</p>
Employment Details	<p>LUVAS, Hisar Aug., 2009 – till-to-date</p> <p>BAU, Ranchi Nov., 2005 – Aug., 2009</p>
Research Interests	Reproductive Biochemistry and Clinical Biochemistry
Membership of scientific societies	Life member of "Society of Biological Chemist," India.
Selected Publications	<p>Ganguly A* Maharana B R, Kumar A, Potliya S, Arora D and Bisla RS (2018). Molecular diagnosis and haemato-biochemical changes in <i>Anaplasma marginale</i> infected dairy cattle. <i>Indian Journal of Animal Sciences</i> 88 (9): 989–993</p> <p>Kumar A, Ganguly A, Sandeep Potliya, Vipul Thakur, Biswa Ranjan Maharana, Devan Arora, Harpreet Singh and R.S.Bisla (2019). Haematobiochemical and electrolytes studies on clinical cases of rumen impaction in Murrah buffaloes. <i>Indian J. Anim. Res.</i>, 53(4): 533-536</p> <p>Ganguly A, Maharana B R, Arora D, Kumar A and Bisla RS (2019). Comparative haemato-biochemical alteration in theileriosis and babesiosis detected by duplex PCR in cattle <i>Indian Journal of Animal Sciences</i> 89(8): 823–828</p> <p>Vandana Bhanot, Anita Ganguly, Paresh Sharma (2019). Haematological alterations and molecular detection of theileriosis in cross bred cattle and its seasonal prevalence. <i>Indian Journal of Animal Sciences</i> 89 (6): 989–993</p> <p>Ramkaran, Ganguly A, Gera S, Preeti, Magotra A and Kumar S (2019). Diacylglycerol O- acyltransferase 1 (DGAT 1) polymorphism in Hardhenu cross bred cattle (Holstein Friesian x Sahiwal x Haryana breed). <i>Journal of Entomology and Zoology Studies</i> 2019; 7(1): 1170-1173</p> <p>Maharana B R, Ganguly A, Bisla RS, Arora D, Kumar A, Mishra C and Ganguly I (2019). <u>Direct PCR-RFLP based detection and differentiation of <i>Anaplasma</i> species in naturally infected goats of eastern region Haryana.</u> <i>Indian Journal of Animal Sciences</i> 89 (4): 385-389</p> <p>Pentaplex PCR assay for rapid differential detection of <i>Babesia bigemina</i>, <i>Theileria annulata</i>, <i>Anaplasma marginale</i> and <i>Trypanosoma evansi</i> in cattle (2020). A Ganguly*, BR Maharana, I Ganguly <i>Biologicals</i> 63, 81-88</p>

Comparative haemato-biochemical alteration in theileriosis and babesiosis detected by duplex PCR in cattle (2019). **A Ganguly***, BR Maharana, D Arora, A Kumar, RS Bisla Indian journal of animal sciences 89 (8), 823-828.

First report of the isolation and phylogenetic characterization of equine *Setaria digitata* from India based on mitochondrial COI, 12S rDNA, and nuclear ITS2 (2020). BR Maharana, S Potliya, **A Ganguly***, RS Bisla, C Mishra, I Ganguly. Parasitology Research 119 (2), 473-481

Awards: Associate Fellow of National Academy of Dairy Sciences, INDIA

Detailed List of Publication

1. Ganguly A, Bisla R S, Singh H, Vandna B, Kumar A, Kumari S, Maharana B R, Ganguly I. (2017). Prevalence and Haemato-Biochemical Changes Of Tick-Borne Haemoparasitic Diseases In Crossbred Cattle Of Haryana, India. *Indian Journal of animal Sciences*: 87(5): 552-557
2. Ganguly A, Maharana B R, Ganguly I, Kumar A, Potliya S, arora D, Bisla R S. (2018). Molecular diagnosis and hemato-biochemical changes in *Anaplasma marginale* infected dairy cattle. *Indian Journal of Animal Sciences*, 88 (9): 989-993.
3. Maharana B R, Ganguly A, Bisla RS, Kumar A, Potliya S, Arora D. (2018) Development of a duplex PCR assay for simultaneous detection of *Babesia bigemina* and *Theileria annulata* infections in cattle. *Indian Journal of Animal Sciences* 88 (4): 402-406.
4. Maharana B R, Ganguly A, Bisla RS, Kumar A, Potliya S, Arora D. (2019). Direct PCR-RFLP based detection and differentiation of *Anaplasma* species in naturally infected goats of eastern Haryana, India. *Indian Journal of Animal Sciences* 89 (4): 385-389.
5. Kumar A, Ganguly A, Sandeep Potliya, Vipul Thakur, Biswa Ranjan Maharana, Devan Arora, Harpreet Singh and R.S.Bisla (2019). Haemato-biochemical and electrolytes studies on clinical cases of rumen impaction in Murrah buffaloes. *Indian J. Anim. Res.*, 53(4): 533-536.
6. Ganguly, A, Ganguly I and Meur S K (2010). Multiple molecular forms of inhibin in buffalo (*Bubalus bubalis*) ovarian follicular fluid. *Research in Veterinary Science* 89 (1):14-19
7. Ganguly I, Sharma A, Mitra A, Kumar A and Ganguly A (2011). Analysis of Genetic Variations of complete TM4 of Buffalo (*Bubalus bubalis*) *Slc11A1* Gene. *Journal of Applied Animal Research*. 39(4): 324-327.
8. Ganguly, A, Ganguly I and Meur S K (2013). Changes in circulatory FSH of Barbari goats following treatment with high molecular weight inhibin isolated from buffalo follicular fluid. *Research in Veterinary Science* 95(2):374-80.
9. Ganguly I., Sharma A., Mitra A., Ganguly A and Kumar N (2015). Genetic analysis of glycosylation sites, TM 8 and consensus Transport motif of buffalo *slc11a1* gene. *Indian Journal of Animal Research*, 50 (3), 300-304.
10. Ganguly A, Bisla R S, Ganguly I, Singh H, Bhanot V and Chaudhri SS (2016). Direct blood PCR detection of *Babesia bigemina* and its effect on haematological and biochemical profile in crossbred cattle of eastern Haryana. *Indian Journal of Animal Research* 51 (1): 241-245 NAAS rating: 6.1.
11. Ganguly A, Bisla R S, Singh H, Bhanot V, Kumar A, Kumari S and Ganguly I (2017). Prevalence and Haemato-Biochemical Changes of Tick Borne Diseases in Cattle of Eastern Region of Haryana. *Indian Journal of Animal Sciences*. 87 (5): 552-557.
12. K. Mahesh Singh, Singh S, Ganguly I, Ganguly A, Raja K.N., Chopra A and Narula H.K (2016). Evaluation of Indian sheep breeds of arid zone under heat stress condition for the assessment of their adaptability. *Small Ruminant Research* 141:113-117.
13. Singh K. M., Singh S., Ganguly I., Nachiappan Raja K, Ganguly A., Venkataramanan R., Chopra A., Narula H. K. (2017). Association of heat stress protein 90 and 70 gene polymorphism with adaptability traits in Indian sheep (*Ovis aries*). *Cell Stress and Chaperones*. 22(5):675-684
14. Ganguly A, Maharana B R, Arora D, Kumar A and Bisla RS (2019). Comparative haemato-biochemical alteration in theileriosis and babesiosis detected by duplex PCR in cattle *Indian Journal of Animal Sciences* 89(8): 823–828.

15. Vandana Bhanot, Anita Ganguly, Paresh Sharma (2019). Haematological alterations and molecular detection of theileriosis in cross bred cattle and its seasonal prevalence. *Indian Journal of Animal Sciences* 89 (6): 989–993.
16. Pentaplex PCR assay for rapid differential detection of *Babesia bigemina*, *Theileria annulata*, *Anaplasma marginale* and *Trypanosoma evansi* in cattle (2020). A Ganguly*, BR Maharana, I Ganguly, *Biologicals* 63, 81-88.
17. First report of the isolation and phylogenetic characterization of equine *Setaria digitata* from India based on mitochondrial COI, 12S rDNA, and nuclear ITS2 (2020). BR Maharana, S Potliya, A Ganguly*, RS Bisla, C Mishra, I Ganguly. *Parasitology Research* 119 (2), 473-481.
18. Antioxidant enzymes in postpartum anoestrus buffaloes supplemented with vitamin E and selenium (2004) Anita, SPS Singha, KS Dhillon, S Nayyar *Asian-Australasian journal of animal sciences* 17 (5), 608-611.
19. Vitamin E and selenium influence the blood biochemical constituents in postpartum anoestrus buffaloes (2004). Anita, SPS Singha, S Nayyar. *Indian journal of animal sciences* 74(4):376-378
20. Ganguly, A, Ganguly I and Meur S K (2011). Molecular form of Inhibin in buffalo serum. *Indian Veterinary Journal* 88 (6): 24:25.
21. Ganguly A, Potliya S, Kumar A, B R Maharana and Bisla R S (2017). Clinical incidences and haemato-biochemical changes in buffalo calf urolithiasis in Eastern region of Haryana. *The Haryana Veterinarian*, 56 (2): 158-162.
22. Ganguly A, Ganguly, I and Meur S K (2012). Inhibitory effect of buffalo ovarian follicular fluid on hCG induced uterine weight in mice. *The Indian Veterinary Journal*. 89 (6): 75-77. NAAS Rating 6.0. Score=2.5
23. Kumar A, Ganguly A, Maharana B R, Arora D, Potliya S, Jangir B L, Bisla R S (2017). Therapeutic management of papillomatosis in cattle. *The Haryana Vet* 56 (2): 224-226. NAAS rating: 5.36
24. Ramkaran, Ganguly A, Gera S, Preeti, Magotra A and Kumar S (2019). Diacylglycerol O-acyltransferase 1 (DGAT 1) polymorphism in Hardhenu cross bred cattle (Holstein Friesian x Sahiwal x Hariana breed). *Journal of Entomology and Zoology Studies* 2019; 7(1): 1170-1173.
25. Kumar N, Kumar S, Gupta R, Ramkaran, and Ganguly A*. (2019). Status of toxic heavy metals in cattle of Haryana. *Haryana Veterinarian* 58 (1), 114-116. NAAS rating: 5.36
26. Kumar, A, Thakur V, Potliya S, Singh H, Ruhil S, Ganguly A, Maharana B R and Bisla R S. (2019). Study on incidence, haemato biochemical changes and therapeutic management of post parturient haemoglobinuria in Murrah buffaloes. *The Pharma Innovation* 8(1): 147-150.
27. Ganguly A, Bhanot V, Bisla RS, Ganguly I, Singh H, Chaudhri SS (2015). Haematobiochemical alterations and direct blood polymerase chain reaction detection of *Theileria annulata* in naturally infected crossbred cows. *Veterinary World*, 8(1): 24-28.
28. Saurabh, Bisla RS, Rishi Tayal and Ganguly A (2016). Evaluation of sub-ischial urethrotomy for the treatment of obstructive urolithiasis in male buffalo. *Haryana Vet*. 55(2), 224-28.
29. Ramkaran, Ganguly A, Gera S, K Sandeep, Magotra A, Kumar A and Sheoran M (2017). Status of β casein gene in hardhenu crossbred cattle. *Haryana Vet* 56(1) 1-4
30. First report of molecular and phylogenetic analysis of *Physaloptera praeputialis* in naturally infected stray cats from India. 2021. B. R. Maharana BR, Gupta S, Ganguly A, Binod Kumar B, Chandratre G A, and Bisla R S *Parasitology Research*. <https://doi.org/10.1007/s00436-021-07163-2>
31. First report of the isolation and phylogenetic characterization of equine *Setaria digitata* from India based on mitochondrial COI, 12S rDNA, and nuclear ITS2 (2020). BR Maharana, S Potliya, A Ganguly*, RS Bisla, C Mishra, I Ganguly *Parasitology Research* 119 (2), 473-481.
32. Bhanot V, Ganguly A, Prakash A, Gupta R (2018). Comparative efficacy of direct blood PCR with microscopy for detection of theileriosis in cross breed cattle. *Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases*. 39 (1): 16-19. NAAS rating: 4.49
33. Kumar A, Maharana B R, Bisla R S, Ganguly A. (2018) Therapeutic management of concurrent theileriosis and coccidiosis in a calf. *Intas polivet* 19 (1): 13-15.
34. Development and validation of direct PCR-RFLP assay for rapid detection and differentiation of *Anaplasma* species in naturally infected goats (2019). BR Maharana, A Ganguly, D Arora, RS Bisla. *Journal of Veterinary Parasitology* 33 (1), 12-21.

35. Ganguly A, Bisla RS, Chaudhri SS (2016). Haematological and biochemical changes in ovine fasciolosis. Haryana Vet. 55(1): 27-30
36. Bhanot, V. ,Chaudhri, S.S., Ganguly, A. Bisla, R.S., and Singh, H. Detection of subclinical infection of *Trypanosoma evansi* in cattle by blood Direct PCR. Indian Vet. J., March 2014, 91(03):42-44
37. Anita, S NAYYAR, SPS Singha, N SINGH (2003) Lipid peroxidation and antioxidant vitamins in postpartum anoestrus buffaloes supplemented with vitamin E and selenium Indian journal of dairy science 56 (1), 33-37
38. Ganguly A, Ganguly, I and Meur S K (2012). Inhibitory effect of buffalo ovarian follicular fluid on hCG induced uterine weight in mice. The Indian Veterinary Journal. 89 (6): 75-77.
39. Ganguly, A, Bhanot, V. Harpreet Singh, Bisla, R.S and S.S. Chaudhri. (2015). Calcium Status of clinically affected dairy animals of Eastern Haryana. Indian Vet. J. 92 (11):74-76