

DR. SHIVASHARANAPPA. N

M.V.Sc, Ph.D

Scientist (ARS/ICAR), Veterinary Pathology,

Division of Animal Health

Central Institute on Research on Goats (CIRG), Makhdoom

Farah, Mathura (UP), 281122, India

E-mail: drshivasharan@gmail.com, drshivasharan@cirg.res.in



Research Interests

- Molecular Pathology and Neuropathology
- Molecular epidemiology and diagnosis of infectious diseases of livestock and wild life.
- Molecular basis of innate immune response in goats.

Research Projects (Funded by ICAR)

1. Toll like receptors (TLRs) expression and characterization in different breeds of goats and their role in disease resistance with special reference to brucellosis (2012-present) **As Co-Principal Investigator.**
2. Patho-epidemiological studies on emerging and existing diseases of goats (2012-present) **As Co-Principal Investigator.**
3. Effect of nutritional deficiency diseases on gene expression profiles in goats. (Dec 2012-present)
4. Pathology of important neurological diseases in goats and sheep (2010-2012). **As Principal Investigator**
5. Monitoring and Surveillance of important diseases in goats and sheep (2010-2012). **As Co-Principal Investigator**
6. All India Coordinated Research Project on Muzaffarnagari sheep at CIRG, Makhdoom (2010-2011) - **As Co-Principal Investigator.**
7. All India Coordinated Research Project on Barbari goats at CIRG, Makhdoom (2010-2011) – **As Co-Principal Investigator.**

External funded projects:

1. Molecular epidemiology and pathology of Listeriosis in goats and sheep (Submitted to DST)

Peer Reviewed Publications

International:

1. **Nayakwadi S, Gupta VK, Pawaiya RS, Reddy GBM, kumar A, Barbuddhe SB (2014).** Isolation and characterization of *Listeria monocytogenes* from goat brain. *Adv. Anim. Vet. Sci.* 2 (3S): 12 –15.
2. Gupta, V. K., **Shivasharanappa, N.**, Kumar, V., and Kumar, A. **(2014).** Diagnostic evaluation of serological assays and different gene based PCR for detection of

Brucella melitensis in goat. *Small Ruminant Research*: 117(1). Page no: 94-102.
<http://dx.doi.org/10.1016/j.smallrumres.2013.11.022>.

3. Sharma, N., Pawaiya, R., Kumar, S., & **Nayakwadi, S (2014)**. Parasitic Encephalomyelitis in Goats due to Aberrant Infestation with Botfly *Oestrous ovis* Larvae. *Advances in Animal and Veterinary Sciences*. 2 (3S): 8-11.
4. Gupta VK, **Nayakwadi S**, Kumar A, Gururaj K, Kumar A, Pawaiya RS **(2014)**. Markers for the molecular diagnosis of brucellosis in animals. *Adv. Anim. Vet. Sci.*2 (3S): 31 – 39.
5. Gururaj K, Kirubaharan JJ, Gupta VK, Pawaiya RVS, **Shivasharanappa N** and Mishra AK **(2014)**. Past and present of reverse genetics in animal virology with special reference to non-segmented negative stranded RNA viruses; a review. *Adv. Anim. Vet. Sci.* 2 (3S): 40 – 48
6. Paul S, Sharma DK, Boral R, Mishra AK, **Shivsharanappa N**, Banerjee PS and Pawaiya RVS **(2014)**. Cryptosporidiosis in goats; a review. *Adv. Anim. Vet. Sci.*2 (3S): 49 – 54.
7. Ajay Singh, Vivek Kumar Gupta, Amit Kumar, Vikas Kumar Singh and **Shivasharanappa Nayakwadi (2013)**. 16S rRNA and Omp31 Gene Based Molecular Characterization of Field Strains of *B. melitensis* from Aborted Foetus of Goats in India. *The Scientific World Journal*. Volume 2013, Article ID 160376, 7 pages, <http://dx.doi.org/10.1155/2013/160376>.

National:

1. Sharma, A., **Nayakwadi, S.**, Chandratre, G., Saini, M., Das, A., Raut, S., Swarup, D., and Somvanshi, R. **(2014)**. Prevalence of Pathological Conditions in Zoo/Wild Animals in India: A Retrospective Study Based on Necropsy. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 1-10.
2. Ajay Singh, Vivek Kumar Gupta, Amit Kumar, Vikas Kumar Singh and **Shivasharanappa Nayakwadi (2014)**. Omp31gene based molecular detection of *B. melitensis* from serum samples of goats. *Indian J of Animal Science*. 84 (3): 251–253, March 2014.
3. A.K.Sharma, **N. Shivasharanappa**, P.S. Banerjee, Mohini Sahini, S.S. Raut, Gauri A. Chandratre and A. Das **(2012)**. Intestinal coccidiosis in a Nilgai calf (*Boselaphus tragocamelus*) *Indian J. Vet. Pathol.*, 36(2) : 266-268.
4. Manjunatha Reddy, G.B, **Shivasharanappa N**, A.K. Mishra, Souvik Paul and D.K.Sharma **(2012)**. Pathomorphological and Histopathological Lesions in Naturally Occurring Caprine Paratuberculosis. *Indian J. Vet. Pathol.*, 36(2) : 270-272.
5. G.B. Manjunatha Reddy, A.K. Mishra, **Shivasharanappa N**, D. K. Gupta., D. K. Sharma, V. K. Gupta and Ashok Kumar **(2012)**. Prevalence and Identification of Shiga toxin producing E.coli in healthy and diarrhetic goats. *Indian J of Comp. Microbiol. Immunol. Infect. Dis.* Vol. 33 (1&2): 25-30.

6. **Shivasharanappa N**, K. Gururaj, D.K. Sharma, Manjunatha Reddy, G.B and V.S. Vihan. (2011). Acute Hepatic and Pneumonic Cysticercosis in Barbari Goats. *Indian J of Vet. Pathol*, 35(1): 80-81.
7. **Shivasharanappa, N**. Manjunatha Reddy, G.B., Nitika Sharma and V.K. Gupta (2011). Parasitic encephalitis caused by larvae of *Oestrus ovis* in Sirohi goat. *Indian J. Vet. Pathol.*, 35(2) : 204-205.
8. **Shivasharanappa, N.**, Singh, R. Singh K.P. and Madhu B.P (2011). NK cell and macrophage activity in experimentally induced rabies in mice. *Indian J. Vet. Pathol.*, 35(2) : 159-161.

Gene Sequences Published

1. Mishra A K, Gururaj K, Gupta G, Gupta V K, Kumar N, **Shivasharanappa N**, Sharma N and Paul S (2014). *Staphylococcus aureus* strain CIRG-SM1 thermostable nuclease gene, partial cds. GenBank Accession: KF765737.
2. Mishra A K, Gururaj K, Gupta G, Gupta V K, Kumar N, **Shivasharanappa N**, Sharma N and Paul S (2014). *Escherichia coli* strain CIRG-ECD1 universal stress protein A (uspA) gene, complete cds. GenBank Accession: KF765738
3. Mishra A K, Gururaj K, Gupta G, Gupta V K, Kumar N, **Shivasharanappa N**, Sharma N and Paul S (2014). *Escherichia coli* strain CIRG-ECM1 universal stress protein A (uspA) gene, complete cds. GenBank Accession: KF765739.
4. Mishra A K, Gururaj K, Gupta G, Gupta V K, Kumar N, **Shivasharanappa N**, Sharma N and Paul S (2014). *Escherichia coli* strain CIRG-ECP1 universal stress protein A (uspA) gene, complete cds. GenBank Accession: KF765740.
5. Mishra A K, Gururaj K, Gupta G, Gupta V K, Kumar N, **Shivasharanappa N**, Sharma N and Paul S (2014). *Escherichia coli* strain CIRG-ECS1 Shiga toxin gene, partial cds. GenBank Accession: KF765741.
6. **Shivasharanappa N**, Gupta, V K, Gururaj K, Manjunathreddy GB, Kumar A and Rout P K (2013). *Capra hircus* breed Barbari Toll-like receptor 2 (TLR2) gene complete cds. Gene Bank Accession: KF765736.
7. Manjunatha Reddy, G.B., Singh,R., Singh,K.P., **Shivasharanappa,N** and Madhu,B.P (2011). Rabies virus isolate ICAD1-RB phosphoprotein (P) mRNA, partial cds. Gene Bank Accession: GU363385.
8. Manjunatha Reddy,G.B., Singh,R., Singh,K.P., **Shivasharanappa, N** and Madhu,B.P (2011). Rabies virus isolate ICAD33-RH phosphoprotein (P) mRNA, partial cds. Gene Bank Accession: GU363417
9. Manjunatha Reddy,G.B., Singh,R., Singh,K.P., **Shivasharanappa,N** and Madhu,B.P (2011). Rabies virus isolate ICAD23-RD phosphoprotein (P) mRNA, partial cds. GU363407.