



**Dr. Souvik Paul, B.V.Sc. & A.H, M.V.Sc., PhD
Scientist (Veterinary Parasitology)**

drsouvik.nrmp[at]gmail[dot]com
Souvik.Paul[at]icar[dot]gov[dot]in

+91-9411222307 (M)
+91-361-2847195 (O)

Publications	Total no. of Research Paper : 31
	Total no. of Books/Manual : 4
	No. of patent granted (G) /filed (F) : (G) (F)
	Copyright granted (G) /filed (F) : (G) (F)
	Policy Document : 2
Experience with research interest:	
<p>Molecular Parasitology and Zoonotic Parasitic diseases, Epidemiology and Molecular mapping of important Parasitic diseases of livestock, Detection and characterization of parasites and parasitological / Serological /molecular diagnosis of Parasitic diseases of livestock. Detection of resistance against anthelmintic and antiprotozoal drugs. Studies on genetic markers for resistance against antiparasitic drugs. Biochemical assessment of resistance and molecular and genetic marker studies for resistance against antiparasitic compounds. Targeted and Selective clinical marker based treatment of parasitic disease on animals.</p>	
Top 10 Publications:	
<ol style="list-style-type: none"> 1. Gururaj K., Pawaiya R. S., Gangwar N. K., Mishra A. K., Singh D. D., Andani D., Paul S., ... & Chaturvedi V. K. (2019). Comparative molecular characterization and phylogenetic analysis of cerebral and non-cerebral coenurosis in Indian goats. <i>Veterinary Parasitology: Regional Studies and Reports</i>, 15, 100266. 2. Verma R., Sharma D. K., Gururaj K., Paul S., Banerjee P. S., & Tiwari J. (2017). Molecular epidemiology and point mutations in ITS1 and 18S rDNA genes of <i>Eimeria ninakohlyakimovae</i> and <i>E. christenseni</i> isolated from Indian goats. <i>Veterinary Parasitology: Regional Studies and Reports</i>, 9, 51-62. 3. Pawaiya R. V. S., Singh D. D., Gangwar N. K., Gururaj K., Kumar V., Paul S., ... & Singh, S. V. (2017). Retrospective study on mortality of goats due to alimentary system diseases in an organized farm. <i>Small Ruminant Research</i>, 149, 141-146. 4. Ghosh S., Gupta S., Ajith Kumar, K.G., Sharma A.K., Kumar S, Nagar G., Kumar S., Kumar R., Paul S., Fular A., Chigure G., Nandi A., Manjunathachar H.V., Mohammad A., Verma M.R., Sarvanan B.C. and Ray D.D. (2017). Characterization and establishment of a reference deltamethrin and cypermethrin resistant tick line (IVRI-IV) of <i>Rhipicephalus (Boophilus) microplus</i>. <i>Pesticide Biochemistry and Physiology</i>, 138 (2017) 66–70 5. Kumar S., Paul S., Sharma A. K., Kumar R., Tewari S. S., Chaudhuri P., ... & Ghosh S. (2011). Diazinon resistant status in <i>Rhipicephalus (Boophilus) microplus</i> collected from different agro-climatic regions of India. <i>Veterinary Parasitology</i>, 181(2-4), 274-281. 6. Paul S., Chandra D., Ray D.D., Tewari A.K., Rao J.R., Banerjee P.S., Baidya S. and Raina O.K. (2008). Prevalence and molecular characterization of bovine <i>Cryptosporidium</i> isolates in India. <i>Veterinary Parasitology</i>; 153, 143-146. 7. Paul S., Chandra D., Tewari A.K., Banerjee P.S., Ray D.D., Raina O.K. and Rao J.R. (2009). Prevalence of <i>Cryptosporidium andersoni</i>: a molecular epidemiological survey among cattle in India. <i>Veterinary Parasitology</i>; 161, 31-35. 	

8. **Paul S.,** Chandra D., Tewari A. K., Banerjee P. S., Ray D. D., Boral R., & Rao J. R. (2009). Comparative evaluation and economic assessment of coprological diagnostic methods and PCR for detection of *Cryptosporidium* spp. in bovines. *Veterinary Parasitology*, 164(2), 291-295.
9. **Paul S.,** Manjunatha Reddy, G.B. and Sharma D.K. (2013). Cryptosporidiosis in neonatal goats kids in North -Western India. *Indian Veterinary Journal*, 90 (4): 142-143.
10. **Paul S.,** Sharma D.K., Boral R., Mishra A.K., Shivsharanappa N., Banerjee P.S., and Pawaiya R.V.S. (2014). Cryptosporidiosis in goats; a review. *Advances in Animal and Veterinary Sciences*, 2 (3S): 49 – 54.

Technologies developed:

1. Standardization of Parasitological and molecular diagnostic methodologies for detection of cryptosporidiosis in goat kids
2. Standardization and simplification of different types of oocyst staining techniques for *Cryptosporidium* spp.
3. Biochemical and Molecular detection and evaluation of acaricidal resistance in ticks.
4. Purification, Concentration of oocyst from diarrhoeic neonatal faecal samples and subsequent method for efficient extraction of DNA from *Cryptosporidium* oocysts
5. Targeted Selective treatment Chart (TST) PARACHEK card for on farm selective treatment against haemonchosis in goats.
6. Body Condition Scoring (BCS) and Faecal Scoring Chart (FS) for selective treatment of parasites in goats.

Awards:

1. Prof. D.B. Mukherjee Gold medal (W.B.U.A.F.S)-2005
2. Dr. J.P Dubey Young Scientist award (I.A.A.V.P.)-2007
3. IVRI Gold Medal for Best Doctoral Student (ICAR-IVRI)-2010
4. ICAR-JRF for MVSc-2005-2007
5. ICAR-SRF for PhD-2007-2010

Membership of professional society:

- Indian Association for the Advancement of Veterinary Parasitology (IAAVP)
- Indian Society for Sheep and Goat Production and Utilization.
- West Bengal Veterinary Council.
- Veterinary Council of India.