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Scholarly Interests

My research interests include ruminant physiology, reproductive endocrinology, stress physiology and highland pasture development. My current research focus is on elucidation of physiological mechanisms linking reproduction to nutrition and environmental stress in yak. I am also interested in the finding microRNAs involved in cellular communication related to physiological events like fertilization and immunity transfer in yak.

Ongoing research projects

1. AICRP on Plastic Engineering Technology (PI)
2. Isolation and characterization of yak spermatogonial stem cells (PI)
3. National Mission on Sustaining the Himalayan Ecosystem (CoPI)
4. Detection of anthelmintic resistance in GI nematodes of yak and other high-altitude ruminants (CoPI)

Recent publications

1. Maiti S., Jha S.K., Garai S., Nag A., Bera A.K., **Paul V.**, Upadhaya R.C. and Deb S.M. (2017) An assessment of social vulnerability to climate change among the districts of Arunachal Pradesh, India. *Ecological Indicators*, **77**:105-113.
2. Krishnan G., **Paul V.**, Hanah S.S., Bam J. and Das P.J. (2016). Effects of climate change on yak production at high altitude. *Indian Journal of Animal Sciences*, **86**(6):621-626.
3. Medhi D., Santra A., **Paul V.**, Saikia A., Das P.P., Ali E. and Deb S.M. (2016). Performance of growing yak calves on different planes of nutrition. *Indian Journal of Animal Sciences*, **86**(11):1337-1339.
4. Deori S., Bam J. and **Paul V.** (2015). Production performance of yaks (*Poephagus grunniens* L.) and their calves given vitamin E and Selenium during late gestation. *Philippines Journal of Veterinary Medicine*, **52**(2):121-124.
5. Bora L., Bam J., **Paul V.** and Maiti S. (2014). Traditional milk, meat processing and preservation techniques of the Yak Pastoralists of Arunachal Pradesh. *Indian Journal Traditional Knowledge*, **13**(1):216-221.
6. Deori S., Bam J. and **Paul V.** (2014). Efficacy of prepartal vitamin E and selenium administration on fertility in Indian yaks (*Poephagus grunniens*). *Veterinarski Arhiv*, **84**:513-519.
7. Deori S., Bam J., **Paul V.** and Baruah K.K. (2013). Epidemiology of abortion in yaks (*Poephagus grunniens*) under farm conditions. *Indian Journal Animal Research*, **47**(2):178-180.
8. Gruber H., Paul V., Heinrich H., Meyer D. and Müller M. (2012). Determination of insecticidal Cry1Ab protein in soil collected in the final growing seasons of a nine-year field trial of Bt-maize MON810. *Transgenic Research*, **21**(1):77-88.
9. Bam J., Deori S., **Paul V.**, Bhattacharya D., Bera A.K., Bora L. and Baruah K.K. (2012). Seasonal prevalence of parasitic infection of yaks in Arunachal Pradesh, India. *Asian Pacific Journal of Tropical Diseases*, **2**:264-267.
10. Patel D.C., Albrecht C., Pavitt D., **Paul V.**, Pourreyron C., Newman S.P., Godsland I.F., Valabhji J. and Johnston D.G. (2011). Type 2 diabetes is associated with reduced ATP-binding cassette transporter A1 gene expression, protein and function. *PLoS One*, **6**(7): e22142. doi: 10.1371/journal.pone.0022142.