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Scholarly Interests

Research interests include study of reproductive pattern in yak, infertility problems, augmentation of fertility through hormonal and non-hormonal methods, assisted reproductive techniques. Yak semenology, andrological investigations, breeding behaviour, frozen semen technology and application of Artificial Insemination.

Ongoing research projects

1. Effect of season on freezability and biochemical profile of yak semen (PI)
2. Isolation and characterization of yak spermatogonial stem cells (CoPI)
3. Effect of weaning age and starter protein levels on post weaning performance of yak (CoPI)
4. Detection of anthelmintic resistance in GI nematodes of yak and other high-altitude ruminants (CoPI)
5. Task Force 6 on Himalayan Agriculture under National Mission for Sustaining the Himalayan Ecosystem (CoPI)

Recent publications (Ten Recent)

1. Chatterjee N., Dhar B., Bhattacharya D., **Deori S.**, Doley J., Bam J., Das P.J., Bera A.K., Deb S.M., Devi N.N., Paul R., Malvika S. and Ghosh S.K. (2017). Genetic assessment of leech species from yak (*Bos grunniens*) in the tract of Northeast India, Mitochondrial DNA Part A, DOI:10.1080/24701394.2016.123891
2. Rout M., Bhattacharya D., Prusty B.R., Chatterjee N., Bera A.K., Doley J., **Deori S.**, Medhi D., Bam J., Hanah S.S., Deb S.M. and Pattnaik B. (2017). Foot-and-mouth disease virus infection-specific non-structural protein antibodies detected in populations of mithun (*Bos frontalis*), yak (*Bos grunniens*) and their hybrids maintained in farms and villages of Arunachal Pradesh, India. *Indian Journal of Animal Sciences*. **87**(9): 1090-1091.
3. **Deori S.**, Deka B.C., Arangasamy A., Biswas R.K., Selvaraju S., Bhuyan D., Nahardeka N., Somashekar L., Parthipan S., Kalita D.J., Borah R.S. and Phookan A. (2016). Electrophoretic profile of sperm membrane proteins and correlation with fresh semen characteristics in Assam Hill goat. *Indian Journal of Animal Sciences*. **86**(11): 1269-1273.
4. Talukdar D.J., Ahmed K., Deka B.C., **Deori S.** and Das G.C. (2016). Cryo-capacitation changes during cryopreservation of swamp buffalo spermatozoa. *Indian Journal of Animal Sciences*. **86**(4): 397-400.
5. **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.
6. Borah B.K.D., Deka B.C., Biswas R.K., Chakravarty P., **Deori S.**, Sinha S., Ahmed K., Dutta D.J. and Bhattacharyya D.K. (2015). Effect of equilibration period on post thaw semen quality of Indian yak. *Indian Journal of Animal Sciences*. **85**: 607-609.
7. Borah B.K.D., Deka B.C., Biswas R.K., Chakravarty P., **Deori S.**, Sinha S. and Ahmed K. (2015). Effect of thawing methods on frozen semen quality of yak (*Poephagus grunneins* L.) bulls. *Veterinary World*. **8**: 831-834.
8. Chakravarty P., Hussain M., Chauhan M.S., Manik R.S., Baishya D., Bhuyan S., Soren S., **Deori S.**, Paul V., Das P.J., Doley J., Borah B.K.D., Krishnan G., Dutta D.J. and Deb S.M. (2015). *In vitro* yak embryo production through conventional and ovum pickup methods. *Reproduction, Fertility and Development*. **27**(1): 218-218.
9. Bera A.K., Maji C., Hussain M., Bam J., Bhattacharya D., Maiti S., Biswas T.K., **Deori S.** and Deb S.M. (2015). A retrospective analysis on yak mortality with special emphasis on neonatal mortality. *Indian Journal of Animal Sciences*. **85**(5): 446-450.
10. Bera A.K., Hussain M., Maji C., Maiti S., Doley J., Bhattacharya D., Bam J., **Deori S.**, Paul V., Biswas T.K. and Deb S.M. (2015). High seroprevalence of bovine herpesvirus-1 and *Brucella abortus* in yak populations of Arunachal Pradesh, India correlates with abortion. *Indian Journal of Animal Sciences*. **85**(7): 751-754.