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### Scholarly Interests

Major research focus is on sero and molecular epidemiology of bacteria and viruses affecting Yak health and production. Also has experience of working in area of assisted reproductive technologies and was part of the research team to produce the first test tube yak calf named "NORGYAL".

### Ongoing research projects

1. All India Coordinated Project On Foot And Mouth Disease (PI)
2. Identification of circulating microRNA (miRNA) profiles in Bovine herpesvirus -1 (BHV-1) infection/Infectious Bovine Rhinotracheitis in Yak (PI)

### Recent publications

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. Sahay S., **Doley J.**, Krithiga N., Reddy G.B.M., Patil S.S., Shome B.R. and Shome B. (2016). Isolation and characterization of Klebsiella pneumonia from respiratory infection of Yak (*Bos grunniens*), India. *Advances in Animal and Veterinary Sciences*, **4**(12):637-641.
4. Rout M., **Doley J.**, Maiti S., Bera A.K., Chatterjee N., Bhattacharya D. and Mohapatra J.K. (2016). Evidence of Foot-and-Mouth Disease Virus infection in yaks reared in a farm of Arunachal Pradesh. *Indian Journal of Veterinary Pathology*, **40**(3):284-286.
5. 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.
6. 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.
7. Singh P.K., Tiwari A.K., Rajmani R.S., Kumar G.K., Chaturvedi U., Saxen L., Saxena S., **Doley J.**, Sahoo A.P., Santra L., Saxena M., Kumar S. and Sharma S. (2015). Apoptin as a Potential Viral Gene Oncotherapeutic Agent. *Applied Biochemistry and Biotechnology*, **176**(1):196-212.
8. Hussain M., Chakravarty P., Chauhan M.S., Soren S., Borah B.K.D., **Doley J.** And Das P.J. (2014). Quality assessment of yak oocytes for *in vitro* production of yak embryos. *Indian Journal of Animal Sciences*, **84**(9):969-971.
9. **Doley J.**, Singh L.V., Kumar G.R., Sahoo A.P., Saxena L., Chaturvedi U., Saxena S., Kumar R., Singh P.K., Rajmani R.S., Santra L., Palia S.K., Tiwari S., Harish D.R., Kumar A., Desai G. S., Gupta S., Gupta S.K. and Tiwari A.K. (2013). Canine Parvovirus Type 2a (CPV-2a)-Induced Apoptosis in MDCK involves both Extrinsic and Intrinsic Pathways. *Applied Biochemistry and Biotechnology*, **172**(1):497-508.
10. Singh P.K., **Doley J.**, Sahoo A.P., Kumar G.R. and Tiwari A.K. (2012). Oncolytic viruses and their specific targeting to tumour cells. *Indian Journal of Medical Research*, **136**(4):571-584.