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Scholarly Interests

My current research focus is on animal reproduction for development of assisted reproductive technologies, such as *in vitro* maturation, *in vitro* fertilization, embryo culture, embryo transfer, estrous synchronization, artificial insemination and sperm cryopreservation, which have been using successfully in to make genetic improvement of yak husbandry etc.

Ongoing research projects

1. Isolation, culture and cryopreservation of spermatogonial stem cell of yak (As CoPI).
2. Effect of season on freezability and biochemical profile of yak semen (As CoPI).
3. Ex-situ conservation of yak germplasm (As CoPI).

Recent publications

1. **Hussain M**, Begum SS, Kalita, MK, Ahmed, K and Nath, R(2018). Additive used in semen preservation in animals:A short review. *International Journal of Chemical Studies* **6**(5):354-361.
2. Begum SS, **Hussain M**, Chakravarty P and Sharma, A (2019). Neonatal physiology in animal: A short discussion. *International Journal of Chemical Studies* **7**(3):4334-4335.
3. Begum SS, Mahato G, Muthuchelvan D, Chaudhary D, **Hussain M**, Nashiruddullah N, Rajak KK (2017). Molecular identification of Peste-des-petits-ruminant virus from goats of Assam state of North-East India. *Journal of Entomology and Zoology Studies*,**5** (2):1366-1368.
4. **Hussain M**, Chakravarty P, Soren S, Deori S and Begum S S. (2015). Effect of recovery technique and culture media on *in vitro* maturation of indigenous cattle oocytes of Assam. *Indian Journal of Animal Research*, **49** (1): 51-54.
5. Chakravarty P, **Hussain M**, Chauhan MS, Manik RS, Baishya D, Bhuyan S, Soren S, Deori S, Paul V, Das PJ, Doley J, Borah BKD, Krishnan G, Dutta DJ and Deb SM. (2015). *In vitro* yak embryo production through conventional and ovum pickup methods. *Reproduction, Fertility and Development*, **27**(1): 218.
6. Borah B, Borgohai A, Ray MN, Khuman S, Borthakur B, Debbarman C, Payeng S, Begum SS and **Hussain M** (2017). Constraints faced by the farmers of fringe village of Kaziranga National Park in Livestock rearing, Assam, India. *International Journal of Educational Science and research (IJESR)* **7**(2):27-30, ISSN(P):2249-6947.
7. Begum SS, **Hussain M**, Baruah PM and Soren S (2017). Management of dystocia with nape presentation in a jersey crossbred cow (Bos Taurus) by mutation and forced traction. *Indian Veterinary Journal* **94** (03): 51- 52.
8. Begum SS, Mahato G, Sharma P, **Hussain M**, Saleque A (2016). Assessment of immune response to a lyophilized peste-des-petits-ruminants virus vaccine in three different breeds of goats. *Veterinary World* **9**(6): 568-571.
9. Begum SS, Mahato G, Barman NN, Saleque A and **Hussain M** (2016). Seroprevalence of Orf in goats of Assam state of Northeast India and Immune response to a cell culture adapted Orf virus vaccine in goats. *Indian Veterinary Journal*, **93** (11): 29- 30.
10. S.S.Begum, G.Mahato, P. Sharma, K. Sharma, **M. Hussain**, B. C. Das, J. Hussain, A. De, D. Choudhary, M. A. Ramakrishnan and D. Muthuchelvan. 2016. Seroprevalence of peste des petits ruminants in goats in Assam. *Asian Journal of Animal and Veterinary Advances*, Doi:10.3923/ajava.2016.
11. 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 Science*, **85** (5): 446-450.
12. 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 Science*, **85** (7): 751-754.