



Dr. Rafiqul Islam, B.V.Sc., M.V.Sc., PhD
Principal Scientist (Animal Reproduction and Gynaecology)

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Publications	Total no. of Research Paper : 79
	Total no. of Books/Manual : 10
	No. of patent granted (G) /filed (F) : (G) (F) Nil
	Copyright granted (G) /filed (F) : (G) (F) Nil
	Policy Document : Nil

Experience with research interest:

Dr. Islam has 13 years experience of teaching Undergraduate and Post graduate students and 17 years of research experience in the field of Animal Reproduction, Gynaecology & Obstetrics. He has guided 06 M.V.Sc. students as Major Advisor and 03 students as Co-Advisor. He acted as Reviewer for 12 National/ International Journals of repute. He is also currently associated as Section Editor/ Editorial Board member in two scientific journals. His areas of interest are; Animal Reproduction, Andrology, Assisted Reproductive Technologies, Gamete Preservation, Semen Biology, Ruminant Infertility, Immuno-Reproduction, Reproductive Biology, Poultry Production, Ruminant Reproduction, Swine Reproduction.

Top 10 Publications:

1. **Islam R.**, Ahmed K. and Deka B. C. (2006). Effect of holding and washing on the quality of goat semen. *Small Ruminant Research*.66: 51-57.
2. Ganaie B. A., Khan M. Z., **Islam R.**, Makhdoomi D. M., Qureshi S. and Wani G. M. (2009). Evaluation of different techniques for pregnancy diagnosis in sheep. *Small Ruminant Research*. 85: 135–141.
3. Lone F. A., **Islam R.**, Khan M. Z., Sofi K. A. (2011). Effect of transportation temperature on the quality of Cauda epididymal spermatozoa of ram. *Animal Reproduction Science*.123: 54–59.
4. Sofi K. A., Khan M. Z., **Islam R.** and Lone F. A. (2011). Effect of cysteamine and epidermal growth factor supplementation on the in vitro maturation rate of ovine oocytes. *Small Ruminant Research*. 96: 191–194.
5. Lone F. A., **Islam R.**, Khan M. Z., Sofi K. A. (2012). Effect of Different Egg Yolk-Based Extenders on the Quality of Ovine Cauda Epididymal Spermatozoa during Storage at 4°C. *Reproduction in Domestic Animals*.47: 257–262.
6. **Islam R.**,Kumar H., Nandi S. and Rai R.B. (2013). Determination of anti-inflammatory cytokine in periparturient cows for prediction of postpartum reproductive diseases. *Theriogenology*. 79 (6): 974-979.
7. **Islam R.** and Kumar H. (2015). Increased nitric oxide level around parturition in cows with or without postpartum uterine diseases. *Indian Journal of Animal Sciences*. 85 (12): 1318–

1321

8. Rather H.A, **Islam R.**, Malik A.A. and Lone F.A. (2016). Addition of antioxidants improves quality of ram spermatozoa during preservation at 4 °C. *Small Ruminant Research*.141: 24-28.
9. **Islam R.**,Kumar H., Singh G., Binsila B. K., Dey S. (2017). Depressed polymorphonuclear cell functions in periparturient cows that develop postpartum reproductive diseases. *Veterinary Research Communications*. 41:201–209
10. Singh M., **Islam R.** and Avasthe R. (2018). Factors affecting fertility, hatchability and chick survivability of Vanaraja birds under intensive rearing in sub-temperate condition. *Indian Journal of Animal Sciences*. 88 (3): 331–334.

Technologies developed:

1. Transportation of gonads from dead/ slaughtered animals to the laboratory for gamete recovery and their use in *in-vitro* fertilization
2. Vanaraja chicken farming under deep litter intensive housing system for chicken meat production in Sikkim.
3. Technology of low cost deep litter housing model for pigs
4. Designed creep area within low cost deep litter housing system to reduce neonatal mortality.

Awards:

1. **Prof. Nils Lagerlof Memorial Award**” for Best Research Paper published in the field of Reproduction (2014) by Indian Society for Study of Animal Reproduction (ISSAR).
2. **Reviewer Excellence Award (2015)** by International Journal Livestock Research by www.ijlr.org, ISSN 2277-1964
3. **Reviewer Excellence Award (2015 and 2016)** by Indian Journal of Animal Research (IJAR), Agricultural Research Communication Center, Karnal, www.arccjournals.com

Membership of professional society:

- Indian Society for Study of Animal Reproduction, Life Member (LM-1427)
- Indian Society of Sheep & Goat Production & Utilization, Life Member (Acc_No 0255032002)
- Indian Association of Hill Farming, Life Member (LM-507)
- Blue Cross Society of Assam, Life Member (Mem No: 143)
- Assam Veterinary Council, Life Member (ASM- 1548)
- SKUAST Veterinary Scientist Association, Life member (No: 55)