

NAME AND QUALIFICATION: Dr. Smrutirekha Mallick

M.V.Sc., Ph D (Animal Physiology)

DESIGNATION: Scientist

EXPERTISE: Endocrinology, Reproductive Physiology, Stress Physiology

PROJECTS HANDLED:

1. Effect of electrical stunning on physiological stress responses and meat quality in sheep (PI)
2. Effect of super chilling and cryoprotectants on the quality and storage stability of meat (Co-PI)

IMPORTANT PUBLICATIONS:

1. Effects of supplementation of *Tinospora cordifolia* to crossbred cows peripartum, **Smrutirekha Mallick**, BS Prakash, 2011, *Animal reproduction science* 123 (1), 5-13
2. Influence of feeding *Tinospora cordifolia* peripartum on lactation parameters in crossbred cows, **S Mallick**, BS Prakash, 2012, *Journal of animal physiology and animal nutrition* 96, 1112-1120
3. Hormone release, milk production and composition in murrah buffaloes milked by hand and machine, B S Prakash, **S Mallick**, Mahendra Singh, 2014, *Indian journal of animal research* 48 (5), 444-447
4. Infradian rhythmicity in milk leukocyte activity together with plasma cortisol and prolactin levels throughout the lactation period in high-yielding crossbred cows, J Mukherjee, **S Mallick**, M Chaudhury, BS Prakash, AK Dang, 2015, *Biological Rhythm Research* 46 (6), 909-917
5. Luteinizing hormone, testosterone and total estrogens response to exogenous GnRH in crossbred bulls with differing semen quality, BSB Kumar, S Pandita, BS Prakash, **S Mallick**, TK Mohanty, DK Mandal, 2015, *Livestock Science* 174, 150-153
6. Development and validation of a simple, sensitive enzyme immunoassay for quantification of androstenedione in bull plasma, **S Mallick**, BSB Kumar, BS Prakash, A Aggarwal, S Pandita, 2015, *Journal of animal science and technology* 57 (1), 13
7. Seasonal changes in semen quality and correlation with plasma hormone profiles in Karan Fries bulls, **S Mallick**, A Aggarwal, BS Prakash, 2016, *Biological Rhythm Research* 47 (6), 967-974
8. Responsiveness of prepubertal crossbred bull calves to exogenous GnRH and its impact on reproductive hormones under tropical conditions, BSB Kumar, S Pandita, BS Prakash, **S Mallick**, B Mili, 2016, *SpringerPlus* 5 (1), 288

9. Effect of milking behavior on circulatory hormones and milk production in lactating Murrah buffaloes, M Singh, A Aggarwal, **S Mallick**, 2016, *Indian Journal of Animal Research* 50 (1), 123-128.

ANY OTHER INFORMATION:

1. **J.N. Pandey Memorial Best Poster Presentation Award (SAPI-2010)**
2. **Life member of SOCIETY OF ANIMAL PHYSIOLOGISTS OF INDIA (SAPI)**
3. **Life member of VETERINARY COUNCIL OF INDIA**