



Dr. B. C. Das, B.V.Sc. & A.H., M.Sc., PhD
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Publications	Total no. of Research Paper : 55
	Total no. of Books/Manual : 11
	No. of patent granted (G) /filed (F) : 02(F)
Experience with research interest:	
<p>Dr Das has research interest in stress physiology of pig. Dr Das studied seasonal variability in expression patterns of markers of heat stress on thermal tolerance and adaptation in Large White Yorkshire and Ghungroo pigs and explored the effect of hot summer period on the glycolytic rate of early post-mortem changes on meat quality and from his study it was known that HSPs (HSP27, HSP70 and HSP90) and MCTs (MCT1, MCT2, and MCT4) in the pork inclined to increase when exposed to high temperature.</p>	
Top 10 Publications:	
<ol style="list-style-type: none"> 1. Thulasiraman P., Banerjee D., Mohanty N., Das P. K., Ghosh P. R., Mukherjee J., Paul A., Das A. K., Nanda P. K., Naskar S., Mohan N. H., Sarkar M. and B. C. Das. (2015). A comparative study on the expression profile of MCTs and HSPs in Ghungroo and large white Yorkshire breeds of pigs during different seasons. <i>Cell Stress and Chaperon</i>. 20(3), 441-449 2. Paul A., Dangi S.S., Gupta M., Singh J., Thakur N., Naskar S., Nanda P. K., Mohanty N., Das A.K., Bandopadhyay S., et al. Das B. C., & Sarkar, M. (2015). Expression of TLR genes in Black Bengal goat (<i>Capra hircus</i>) during different seasons. <i>Small Ruminant Research</i>. 124: 17-23. 3. Ibne Ali, Vikrant Singh Chouhan, Satyaveer Singh Dangi, Mahesh Gupta, Ujjwala Tandiya, Iqbal Hyder, Vijay Pratap Yadav, Rudra Prasanna Panda, Babitha. V, Vimla Nagar, Arvind Sonwane, Firdous Ahmad Khan, Bikash Chandra Das, Gyanendra Singh, Sadhan Bag and Mihir Sarkar. (2014). Expression and localization of locally produced growth factors regulating lymphangiogenesis during different stages of the estrous cycle in corpus luteum of buffalo (<i>Bubalus bubalis</i>). <i>Theriogenology</i>. 81(3) :428–436 4. Manish Kumar, T Yasotha, R K Singh, Renu Singh, Kuldeep Kumar, R Ranjan, Chetan D Meshram, B C Das, Sadhan Bag. (2013). Generation of transgenic mesenchymal stem cells expressing green fluorescent protein as reporter gene using no viral vector in caprine. <i>Indian Journal of Experimental Biology</i>. 51:502-509 5. Malik H.N., Singhal D. K., Saugandhika S., Dubey A., Mukherjee A., Singhal R., Kumar S., Mohanty A.K., Kaushik J.K., Bag S., Das B. C., Bhanja S.K., and Malakar D. (2015). Generation of parthenogenetic goat blastocysts: Effect of different activation methods and culture media. <i>Zygote</i>. 23(3): 327-35 6. Malik H.N., Singhal D.K., Mukherjee A., Bara N., Kumar S., Saugandhika S., Mohanty A.K., Kaushik J.K., Bag S., Das B.C., Bhanja S.K., and Malakar D. (2013). A Single Blastomere Sexing of Caprine Embryos by Simultaneous Amplification of Sex Chromosome Specific Sequence of SRY and Amelogenin Genes. <i>Livestock Science</i>. 157:351–357 	

7. Renu Singh, Kuldeep Kumar, R Ranjan, Manish Kumar, Yasotha T., R. K. Singh, **B C Das**, M Sarkar and SadhanBag. (2013). Comparative expression analysis of embryonic development related gene in different stages of parthenogenetic and in-vitro fertilized embryos in caprine. *Zygote*. 23(2): 198-204
8. Parul Bharadwaj, Kuldeep Kumar, Renu Singh, Gopal Puri, T Yasotha, Manish Kumar, Sanjeev Bhure, **B. C. Das**, M Sarkar and SadhanBag. (2013). Reprogramming of fetal cells by avian EE for generation of pluripotent stem cell like cells in caprine. *Research in veterinary Science*. 95: 638-643.
9. Ravi Ranjan, R. K. Singh, T. Yasotha, Manish Kumar, Gopal Puri, Kuldeep Kumar, Renu Singh, Sanjeev Bhure, D. Malakar, S. K. Bhanja, M. Sarkar **B C Das**, and Sadhan Bag. (2013). Effect of actin polymerization inhibitor during oocyte maturation on parthenogenetic embryo development and ploidy in *Capra hircus*. *Biochemical Genetics* 51(11): 944-953
10. Sarkar M., **Das B.C.**, Bora B.D., Kumar V., Mohan K., Meyer H.H.D., and Prakash B.S. (2007). Application of sensitive enzyme immunoassay for determination of cortisol in blood plasma of yaks. *General and Comparative Endocrinology*. 154 (1):85-90

Technologies developed:

1. "Development of beating Cardiomyocytes From caprine fetal stem cell" Provisional patent has been filed (No: 2453/DEL/2010)
2. "Extract egg... a novel alternative to fetal bovine serum (FBS) in animal cell culture" Provisional patent has been filed (No: 2450/DEL/2010)

Awards

1. Dr R Krishnamurthy Memorial Medal (2000) by Indian Veterinary Association
2. Dr D N Mallick Memorial Award (2014) by Society for Animal Physiologist of India (SAPI)
3. Outstanding Paper Award (2016) by Regional Science & Technology Congress-2016
4. Achiever Award (2014) by Society for Advancement of Human and Nature (SADHNA)
5. FEAES (2014) by Eurasian Academy Environmental Sciences
6. Jagar Nath Raina Memorial All India Best Research Awards 2014 to Dr Manish Kumar, PhD Sc
7. S C Sud Memorial Best Doctoral thesis award 2016 to Dr Ravi Ranjan, PhD Scholar

Membership of professional society:

- Society for Animal Physiologist of India
- Indian Society for the study of Animal Reproduction
- Indian Association for Advancement of Veterinary Research
- Animal Nutrition Association
- The Indian Science Congress Association
- The Indian Association for Animal Production
- ARS Scientists Forum
- Indian Society for Nuclear Technology in Animal Sciences