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Publications

Selvaraju, S., Parthipan, S., Somashekhar, L., Binsila, B.K., Kolte, A.P., Arangasamy, A., Ravindra, J.P. and Krawetz, S.A., 2018. Current status of sperm functional genomics and its diagnostic potential of fertility in bovine (*Bos taurus*). *Systems biology in reproductive medicine*, pp.1-18. <https://www.tandfonline.com/doi/abs/10.1080/19396368.2018.1444816>

Selvaraju, S., Parthipan, S., Somashekhar, L., Kolte, A. P., Binsila, B. K., Arangasamy, A. and Ravindra, J. P. (2017). Occurrence and functional significance of the transcriptome in bovine (*Bos taurus*) spermatozoa. *Scientific reports*, 7, 42392. <https://www.nature.com/articles/srep42392>

Parthipan, S., **Selvaraju, S.**, Somashekhar, L., Arangasamy, A., Sivaram, M. and Ravindra, J.P., 2017. Spermatozoal transcripts expression levels are predictive of semen quality and conception rate in bulls (*Bos taurus*). *Theriogenology*, 98, pp.41-49.

<https://www.sciencedirect.com/science/article/pii/S0093691X17302054>

Somashekhar, L., **Selvaraju, S.**, Parthipan, S., Patil, S.K., Binsila, B.K., Venkataswamy, M.M., Karthik Bhat, S. and Ravindra, J.P., 2017. Comparative sperm protein profiling in bulls differing in fertility and identification of phosphatidylethanolamine-binding protein 4, a potential fertility marker. *Andrology*, 5(5), pp.1032-1051.

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/andr.12404>

Shilpa, M., **Selvaraju, S.**, GirishKumar, V., Parthipan, S., Binsila, K.B., Arangasamy, A. and Ravindra, J.P., 2017. Novel insights into the role of cell-free seminal mRNAs on semen quality and cryotolerance of spermatozoa in bulls (*Bos taurus*). *Reproduction, Fertility and Development*, 29(12), pp.2446-2456 <http://www.publish.csiro.au/RD/RD16290>

Selvaraju, S., Krishnan, B.B., Archana, S.S. and Ravindra, J.P., 2016. IGF1 stabilizes sperm membrane proteins to reduce cryoinjury and maintain post-thaw sperm motility in buffalo (*Bubalus bubalis*) spermatozoa. *Cryobiology*, 73(1), pp.55-62.

<https://www.sciencedirect.com/science/article/pii/S0011224016300724>

Guvvala, P.R., **Sellappan, S.** and Parameswaraiyah, R.J., 2016. Impact of arsenic (V) on testicular oxidative stress and sperm functional attributes in Swiss albino mice. *Environmental Science and Pollution Research*, 23(18), pp.18200-18210.

<https://link.springer.com/article/10.1007/s11356-016-6870-3>

8. Parthipan, S., **Selvaraju, S.**, Somashekhar, L., Kolte, A.P., Arangasamy, A. and Ravindra, J.P., 2015. Spermatozoa input concentrations and RNA isolation methods on RNA yield and quality in bull (*Bos taurus*). *Analytical biochemistry*, 482, pp.32-39.

<https://www.sciencedirect.com/science/article/pii/S0003269715001293>

9. Jodar, M., **Selvaraju, S.**, Sendler, E., Diamond, M. P., Krawetz, S. A., & Reproductive Medicine Network. (2013). The presence, role and clinical use of spermatozoal RNAs. *Human reproduction update*, 19(6), 604-624.<https://academic.oup.com/humupd/article/19/6/604/839878>

Selvaraju, S., Ravindra, J.P., Ghosh, J., Gupta, P.S.P. and Suresh, K.P., 2008. Evaluation of sperm functional attributes in relation to in vitro sperm-zona pellucida binding ability and cleavage rate in assessing frozen thawed buffalo (*Bubalus bubalis*) semen quality. *Animal reproduction science*, 106(3-4), pp.311-321.

<https://www.sciencedirect.com/science/article/pii/S0378432007001777>