

## F12 POSTER

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### MONOMORPHISM FOR PARTIAL REGION OF EXON 3 OF JY-1 GENE IN NELLORE HEIFERS.

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The JY-1 protein is found in monoovulatory species and was firstly described in cattle. It is an oocyte specific protein and it plays a key role in the regulation of the granulosa cells functions. It also influences the early embryo development. Other genes with similar functions were described in polyovulatory animal. The aim of this study was to analyze a region of the exon 3 of the JY-1 gene in Nellore cattle in order to investigate possible polymorphisms. DNA was extracted from tail hair of 150 Nellore heifers by the Phenol-Chloroform-Isoamyl Alcohol protocol. The primers 5'CTTCACAGACCACCCAGGTC3' and 5' TCTGCCCTGTTTCAGTTTGAT 3' were designed to amplify a partial region of exon 3. The fragment amplified by the Polymerase Chain Reaction (PCR) has 399 bp. After, the Single Strand Conformation Polymorphism (SSCP) technique was done. It wasn't possible to identify different patterns of migration. The pattern of migration has four bands in all the samples. It characterizes a monomorphism for the region analyzed using this technique. Future studies are necessary in order to investigate polymorphisms in other regions of the gene as well as their possible influence in reproductive traits.

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