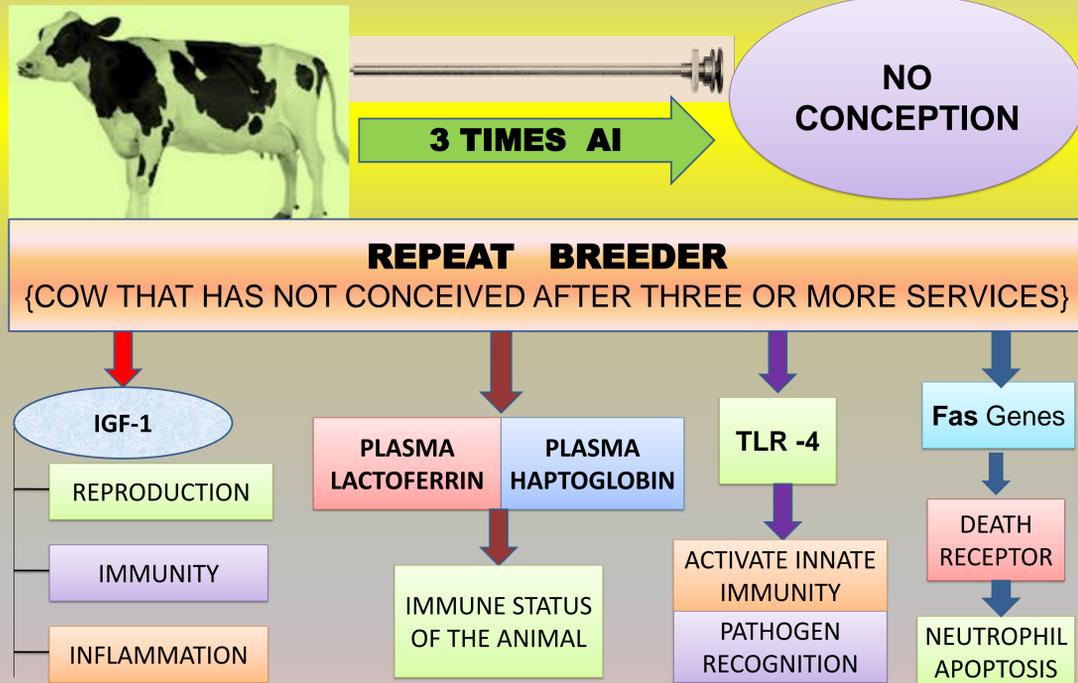


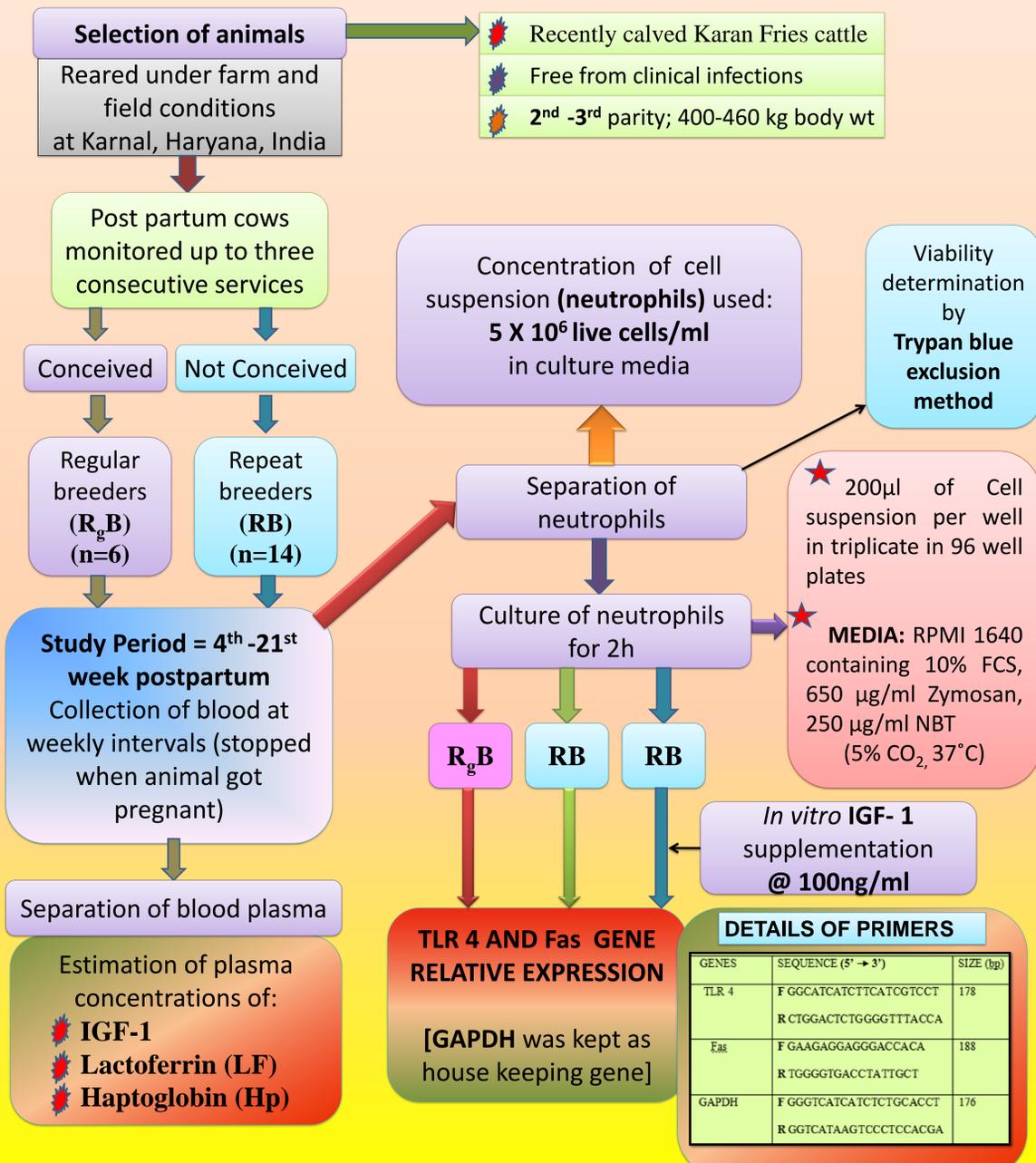
## INTRODUCTION



## OBJECTIVE

The present study was conducted in order to investigate whether the **TLR-4** and **Fas gene expression** in neutrophils and plasma level of **IGF-1**, **Lactoferrin (LF)** and **Haptoglobin (Hp)** varied between **repeat breeding (RB)** and **regular breeding (R<sub>g</sub>B)** cross bred cattle.

## MATERIALS AND METHODS



## RESULTS

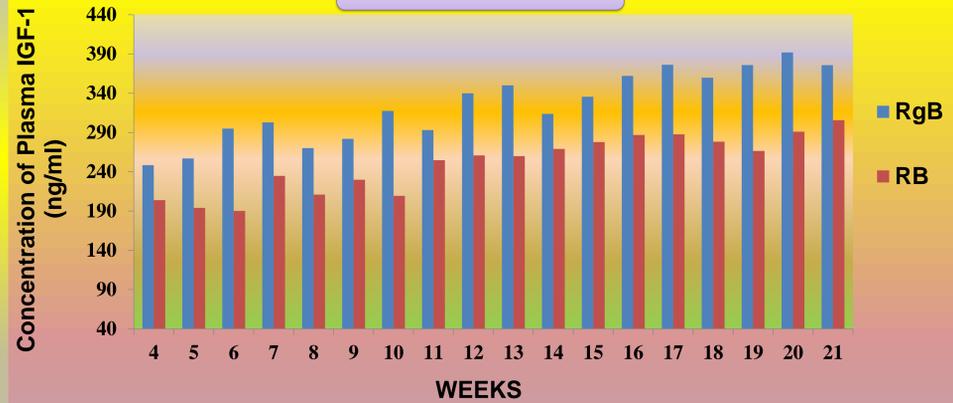


FIG. 1: Concentration of Plasma IGF-1 in RgB and RB groups

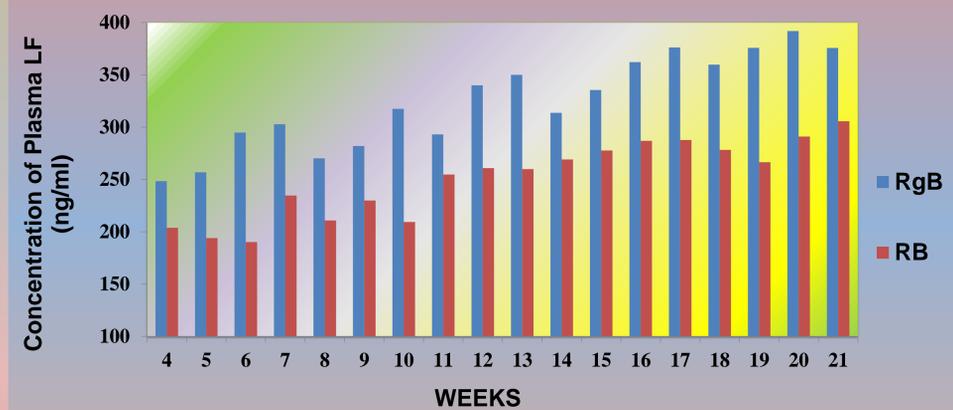


FIG. 2: Concentration of Plasma Lactoferrin in RgB and RB groups

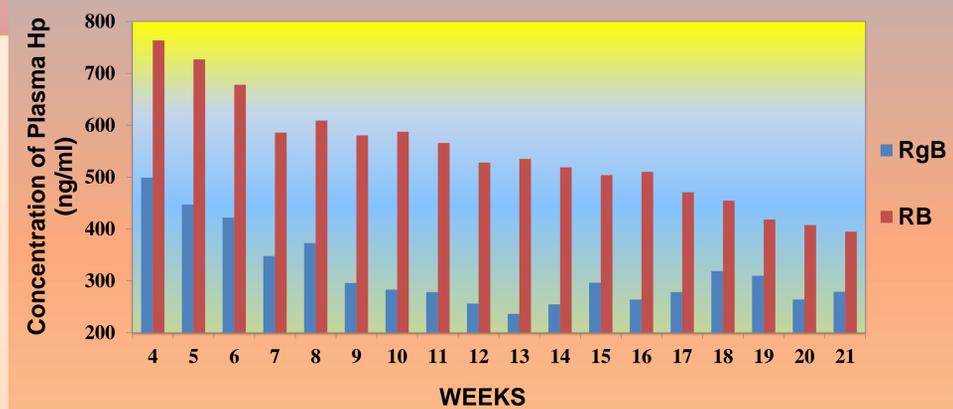


FIG. 3: Concentration of Plasma Haptoglobin in RgB and RB groups

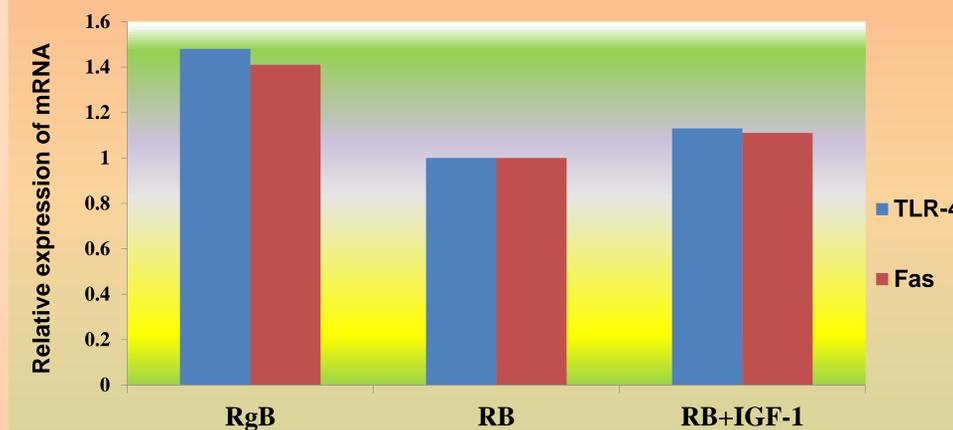


FIG. 4: Relative expression of mRNA in neutrophils of RgB, RB and RB (In vitro IGF-1 supplemented) groups

## CONCLUSION

From the present study, it was concluded that the immune status of R<sub>g</sub>B group animals was better when compared with RB group animals and poor immune status may be one of the causative factor for repeat breeding problem.