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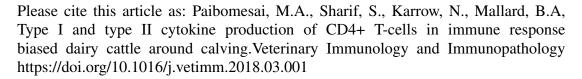
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ACCEPTED MANUSCRIPT

Type I and Type II Cytokine Production of CD4+ T-Cells in Immune Response Biased Dairy Cattle around Calving

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Highlights

- Dairy cattle can be classified as high, average, and low immune responders
- Late pregnancy and parturition may affect CD4+ T-cell cytokine production
- Immune response phenotype can affect CD4+ T-cell cytokine production through the peripartum period

Abstract

The peripartum period is a period of high stress, transition and management changes for dairy cows. It is associated with higher incidence of both metabolic and pathogenic disease. Both antibody- (AMIR) and cell- (CMIR) mediated immune responses play a key role in the maintenance of health in mammals protecting against extracellular and intracellular pathogens, respectively. Generally, interferon gamma (IFN- γ) has been associated with CMIR, whereas interleukin 4 (IL-4) has been associated with AMIR bias, and interleukin 17 (IL-17A) is

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