Comparison of immune cells subsets, *ex-vivo* and *in-vivo* expression of T cell activation and memory marker between LNC and corresponding PBMC from Calves Exposed to Natural *Mycobacterium bovis* Infection

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ClN) is pathognomonic for bovine tuberculosis (BTB). is delayed hypersensitive host response involves a complex interaction of cellular and immune mediators within systemic circulation and LN. Hence, tuberculosis immunological response should be independently investigated at the peripheral blood and LN tissue level. e objective of this study was, therefore, to compare the cell surface and cytokine expression between immune cell from peripheral blood and lymph node cells (LNC) from calves on BCG e cacy trial. Twenty pairs of peripheral blood mononuclear cells (PBMC) and) LNC from M. bovis naturally infected calves during BCG vaccine experiment trial were isolated and investigated in two phases of the owcytometry experiment. In the rst phase of a ow-cytof telopmhe sita1 (ft)sNen10 (e)4 (lo)ksNen10 fe8 0 0 33oothe .915 0 Td[(ex-v)-13 (An IL-4 n10 (e)4 (lo)k-9 (d)12 (ucin)8 (g ce)4.1 (l)-5 (l wa)3 (s n)4 (o)11(e) evid(h)4 (e) in PBMC and LNC. During the second phase of contents of the contents of the second phase of contents of the contents o

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