**Supplementary Figure 1. Sequence of procedures used to quantify the percentage of total and T-CD4+ lymphocytes producing cytokines (IFN-γ, TNF-α and IL10) from hamsters infected by *Leishmania infantum* controls or submitted to different protocols of immunotherapy, chemotherapy and immunochemotherapy.** (A) FSC-H versus FSC-A point distribution graph used for the selection of singlets. (B) Point distribution graph SSC-A versus BV421-A, containing the cells selected in graph A, used to quantify the percentage of living cells. (C) Point distribution graph SSC-A versus FSC-A, containing the cells selected in graph B, used to quantify the percentage of total lymphocytes. (D) SSC-A point distribution graph versus fluorescence channel of fluorochromes conjugated to cytokines, containing the selected cells in graph C, used to quantify the percentage of total lymphocytes producing cytokines. (E) Point distribution graph SSC-A versus FL1-H, containing the cells selected in graph C, used to quantify the percentage of CD4+ lymphocytes. (F) Fluorescence channel punctual distribution graph of fluorochromes conjugated to cytokines versus SSC-A, containing the selected cells in graph E, used to quantify the percentage of cytokine-producing T-CD4+ lymphocytes.

**Supplementary Figure 2. Profile of immune response of hamsters infected by *Leishmania infantum* and submitted to different protocols of immunotherapy, chemotherapy and immunochemotherapy.** Radar charts indicating the cytokine profile of each group expressed by the cytokine ratio (SLiAg/CC ratio) of CD4+ lymphocytes cytokine producing cells.