

Available Issues | Japanese | Author: ADVANCED | Volume | Page | Keyword: Search | Add to | A

<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > <u>Abstract</u>

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Cytokine Expression at the Inoculation Site and Nea Animal Model Infected with Metacyclic Trypomastic Trypanosoma cruzi

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Abstract: Background. *Trypanosoma cruzi* infection is induced b contaminated feces containing metacyclic trypomastigotes acquired skin. Natural unspecific and adaptive humoral and cellular immune important role in controling primary infection.

Objective: To determine the cytokine profile at the inoculation site ε as draining lymph nodes, as well as the heart and serum, throughout phases in mice infected with metacyclic *T. cruzi* trypomastigotes.

Material and methods. Balc/c mice were intradermally inoculated w

metacyclic trypomastigotes of *T. cruzi*. The RT-PCR technique was cytokine profile at the inoculation site, draining lymph nodes and he determine cytokines in serum.

Results. A poor induction of cytokines within the two weeks after in IFN-gamma, IL-4, IL-10 and TGF-beta and undetectable IL-2 wa inoculation site. On the other hand, in draining lymph nodes, cytokin IL-12, TGF-beta were detected from the first day after infection. Ir inflammatory and anti-inflammatory cytokine pattern was identified. tested (IL-4, IL-10 IL-12 and IFN-gamma) were detected from th with the notorious exception of IL-2. Conclusion. A poor and late in cytokines such as IFN-gamma and IL-12 was observed at the inoculadequate immune responses in lymph nodes. In addition, the pattern strongly depended on the kind of tissue.

Key words: <u>Trypanosoma cruzi</u>, <u>American trypanosomiasis</u>, <u>inoc</u> <u>Chagas disease</u>

[PDF (113K)] [References]

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