



EINLADUNG
zum
ZHR - KOLLOQUIUM

Titel: Parasite – antibody competition during Chagas' disease

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Kurzfassung:

Chagas' disease, a widespread endemic disease in many Latin-American countries, is caused by the unicellular flagellate parasite *Trypanosoma cruzi*. I will present a simple model for the parasite-antibody interaction that predicts all possible outcomes (healing, death, and chronic infection with both stationary and quasi-cyclic parasite populations) of the humoral reaction to the Chagas' infection. The outcomes of the model correspond to the observed clinical and laboratory manifestations of the disease. The model allows for the analysis of various interesting situations, such as the action of parasite-shed decoys, the possibility of delays in the immune reaction, and the effects of immune system "learning". Comparison is made with available data, showing very good agreement. A new version of the model, designed to analyze the cellular damage caused by the parasite reproduction in the host, will also be discussed.

Ort: Willers-Bau C 207
Zeit: Mittwoch, den 9. Juni 2004, 11.00 Uhr

gez. Prof. Dr. Wolfgang E. Nagel