

**Investigations on Detection and Characterization of Circulating Antigens
During Infections with *Toxoplasma gondii***

HASSL, A., H. AUER, O. PICHER, and H. ASPÖCK

Hygiene-Inst. d. Univ., Abt. f. Med. Parasitologie, Kinderspitalgasse 15, 1095 Wien, Austria

Screening for *Toxoplasma* infections became obligatory in Austria in 1975 when the procedure was included in the "Mutter-Kind-Paß" of the Austrian Ministry of Health. — The serodiagnosis of primary *Toxoplasma* infections is usually based on detection of specific IgM and IgG antibodies by means of the combined application of different serological methods. In addition, methods for detection of circulating antigens, which normally occur during the first weeks p. i., have been introduced recently as a further improvement of toxoplasmosis surveillance. — During the past months more than ten thousand sera — mainly from pregnant women — were tested in the ELISA for circulating *Toxoplasma* antigens. Ten sera proved to be positive. — Circulating antigens could be isolated and separated by means of affinity chromatography and SDS-PAGE respectively. Several protein fractions of different molecular weights (20.000-60.000 daltons) could be demonstrated. Further experiments are under investigation.

Keywords: *Toxoplasma gondii*, circulating antigens, affinity chromatography, SDS-PAGE