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Rezension – Analyse – Review

Cytopathology of Parasitic Disease. Ciba Foundation Symposium 99, held in Caracas, Venezuela, November 1982. Pitman Books, London 1983 (US distribution by the Medical Education Division, Ciba Pharmaceuticals Co., West Caldwell, N.J. 07006). VIII, 273 p. £ 25.00/\$ 35.00.

This book edited by David Evered and GERALYN M. COLLINS records the papers presented at Ciba Foundation Symposium 99, held in Caracas, Venezuela, in 1982 with K. S. WARREN in the chair. All the presentations concern the exceedingly important subject "cytopathology of parasitic disease" and provide an extensive review. The authors D. MIRELMAN, R. PIRAS, N. NOGUEIRA, E. R. PFEFFERKORN, S. J. KLEBANOFF, K.-P. CHANG, A. G. HERNANDEZ, H. A. PEREZ, A. SHER, D. J. WYLER, Z. A. ANDRADE and L. HUDSON have treated host-parasite interactions mainly at the cellular level. Metabolic, pathological and immunochemical consequences of cell interactions and cell invasion by the parasite are considered for individual cells, tissues and organs. Examples are drawn from some major parasitic diseases.

In the case of amoebiasis the interactions between the parasite, bacteria and intestinal cells are reported. The papers about *Trypanosoma cruzi* give information about the interactions between the haemoflagellate and the fibroblastic cells and mononuclear phagocytes which are necessary for cellular invasion on the one hand and about damage to the myocardium and the autonomic nervous system on the other hand. The use of mutants for the study of the host-parasite relationship in toxoplasmosis is further described. A presentation about the oxidative response of phagocytes to the invasion by various parasites is the content of another chapter. Host-parasite membrane interactions and the influence of host and parasite factors on the host response and the expression of the disease are considered in the case of leishmaniasis. Two other topics are the role of schistosomal egg granulomas in the regulation of fibroblast functions and the invasion of bovine lymphocytes by *Theileria* sporozoites. Where necessary, the papers are illustrated by tables, diagrams and half-tone prints, and all of them are completed by a discussion highlighting the main problems and the possible direction of current research.

With the many important references listed after each paper, a subject index and an index of contributors, this book is a very valuable source not only for human, veterinary and experimental pathologists but also for parasitologists and immunologists.

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