



Analytical parasitology /

Rogan, Michael T. (1960-)

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Laboratory Manual

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Monografía

Parasites are of global significance in terms of human and animal health and research is constantly targeted at controlling such infections. In order for this to be effective, detailed analyses of the biology of each species, particularly at the molecular level, must be carried out to promote the development of new therapeutic or diagnostic approaches. This laboratory manual, with detailed background information and practical protocols, will be a useful guide for researchers engaged in many areas of parasitology. Most techniques described can be applied to both helminthic and protozoan parasites, although protocols relevant to individual species are also included. It is largely recommended for postgraduate and postdoctoral scientists and provides procedures for some basic techniques in immunological, microscopical, and molecular analyses along with more specialized schemes to give a multidisciplinary approach to experimental parasitology. Parasite infections are very widespread, nevertheless effective therapeutics are not yet available. The analysis of the life cycle and the parasite host interactions at the molecular level may help in the search of the "Achilles heel" of a parasite and thus promote the development of new therapeutic approaches. Parasite molecules such as surface antigens, excretory proteins or metabolic enzymes may serve as targets for new diagnostics tests, chemo- or immunotherapeutics or even as candidate vaccine

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Título: Analytical parasitology Michael T. Rogan (ed.).

Editorial: Berlin New York Springer ©1997

Descripción física: 1 online resource (xvii, 364 pages) illustrations

Mención de serie: Springer lab manual

Bibliografía: Includes bibliographical references and index

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ISBN: 9783642603457 electronic bk.) 3642603459 electronic bk.) 3540589198 alk. paper) 9783540589198 alk. paper) 9783642478109 3642478107

Materia: Diagnostic parasitology- Laboratory manuals Parasitology- methods Diagnostic parasitology. Parasitología Parasitologia (tecnicas) Labormedizin. Parasitologie.

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Enlace a formato físico adicional: Print version Analytical parasitology. Berlin ; New York : Springer, ©1997 (DLC) 96033385 (OCoLC)35198679

Punto acceso adicional serie-Título: Springer lab manual

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