



# INTERNATIONAL JOURNAL FOR PARASITOLOGY: DRUGS AND DRUG RESISTANCE

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## AUTHOR INFORMATION PACK

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### DESCRIPTION

*The International Journal for Parasitology – Drugs and Drug Resistance* publishes the results of original research in the area of anti-parasite drug identification, development and evaluation, and parasite drug resistance. The journal also covers research into natural products as anti-parasitic agents, and bioactive parasite products. Studies can be aimed at unicellular or multicellular parasites of human or veterinary importance.

A list showing the types of articles that are considered is included below. Original research includes the development of novel and innovative concepts and ideas, as well as experimental and observational science that raises new hypotheses. Because of its breadth of organism coverage, all contributions should include relevant information about the parasite of interest in order to be comprehensible to non-experts in the particular subject of the articles. The principal form of publication is the full length article which contains substantial results from a major program of research. The journal also accepts brief reports that have similar subject scope as the full-length article, but do not merit a full-length publication.

In addition, the journal provides a medium for highlighting selected articles reporting highly significant original findings, as Editor's Choice Manuscripts. It also commissions articles with emphasis on shorter, focused Reviews of topical issues and strategically important subjects. The journal encourages critical comment and debate on matters of current controversy in the area of parasite drug resistance and anti-parasite drugs via "Current Opinions".

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**Types of articles considered:** Compound library screening for inhibitors against enzymes or whole parasites Drug target validation (chemical and/or genetic) Drug target identification (must include some inhibitor studies rather than characterisation of an enzyme, for example) Drug structure-activity relationship studies Mechanisms of drug action and resistance Reports of the development of drug resistance both in the field and laboratory Studies on drug toxicity to the host (either on single host cells or whole organism) Reports on toxicity in the field Computational approaches to drug discovery or

drug-target identification Development of assays directed at screening for inhibitors Drug combination studies Natural products as anti-parasitic agents Bioactive products produced by parasites Use of live parasites as immunomodulatory agents Epidemiological aspects of the emergence and spread of parasite drug resistance Human clinical trials

## AUDIENCE

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Parasitologists, Zoologists, Entomologists, schools of tropical medicine.

## IMPACT FACTOR

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## GUIDE FOR AUTHORS

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### INTRODUCTION

The *International Journal for Parasitology: Drugs and Drug Resistance* publishes the results of original research in the area of anti-parasite drug identification, development and evaluation, and parasite drug resistance. The journal also covers research into natural products as anti-parasitic agents, and bioactive parasite products. Studies can be aimed at unicellular or multicellular parasites of human or veterinary importance. Because of its breadth of organism coverage, all contributions should include relevant information about the parasite of interest in order to be comprehensible to non-experts in the particular subject of the articles.

#### **Types of article**

The principal form of publication is the full length article which contains substantial results from a major program of research.

In addition, the journal provides a medium for highlighting selected articles reporting highly significant original findings, as Editor's Choice Manuscripts. It also commissions articles with emphasis on shorter, focused Reviews of topical issues and strategically important subjects. The journal encourages critical comment and debate on matters of current controversy in the area of parasite drug resistance and anti-parasite drugs via "Short Communication".

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Pettersson, E.U., Ljunggren, E.L., Morrison, D.A., Mattsson, J.G., in press. Functional analysis and localisation of a delta-class glutathione S-transferase from *Sarcoptes scabiei*. Int. J. Parasitol.

Sangster, N.C., Dobson, R.J., 2002. Anthelmintic resistance. In: Lee, D.L. (Ed.), The biology of nematodes. Taylor and Francis, London and New York, pp. 531-567.

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#### *Additional information*

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1. The program, and version number, used to create peak lists and the parameters used in the creation of the list.
2. The program, and version number, of the program used for database searching. Parameters used for searching should be specified, including, but not limited to, precursor-ion mass tolerance, fragment-ion mass tolerance, modifications allowed for, missed cleavages and enzymes used in protein cleavage.
3. The name and version number of the sequence database used in searches. If a custom-made database is used then complete information on the origin of the sequences and database size should be disclosed. Given the dependence of scoring on database size, the use of a small database, or one excluding contaminants, should be justified.
4. A short description of the methods use to interpret the significance of search results, including any statistical analysis, confidence thresholds and other values specific to judging the certainty of the identification.
5. For large-scale experiments a false-positive determination should be reported. This may be the result of randomized database searches or other approaches.
6. Each protein identification should include the accession number, score generated by the search algorithm used, sequence coverage and the number of unique peptide sequences assigned in the protein identification.
7. Single peptide identifications should include an annotated MS/MS spectrum showing fragment assignments together with the peptide sequence, precursor mass, charge and error.
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