

## Publication

### Agrochemicals against malaria, sleeping sickness, leishmaniasis and Chagas disease

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**Author(s)** Witschel, Matthias; Rottmann, Matthias; Kaiser, Marcel; Brun, Reto

**Author(s) at UniBasel** [Rottmann, Matthias](#) ; [Kaiser, Marcel](#) ; [Brun, Reto](#) ;

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In tropical regions, protozoan parasites can cause severe diseases with malaria, leishmaniasis, sleeping sickness, and Chagas disease standing in the forefront. Many of the drugs currently being used to treat these diseases have been developed more than 50 years ago and can cause severe adverse effects. Above all, resistance to existing drugs is widespread and has become a serious problem threatening the success of control measures. In order to identify new antiprotozoal agents, more than 600 commercial agrochemicals have been tested on the pathogens causing the above mentioned diseases. For all of the pathogens, compounds were identified with similar or even higher activities than the currently used drugs in applied in vitro assays. Furthermore, in vivo activity was observed for the fungicide/oomycetocide azoxystrobin, and the insecticide hydramethylnon in the Plasmodium berghei mouse model, and for the oomycetocide zoxamide in the Trypanosoma brucei rhodesiense STIB900 mouse model, respectively.

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