

## Apicomplexan Parasites Molecular Approaches Toward Targeted Drug Development Drug Discovery In Infectious Diseases

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### Apicomplexan Parasites: Molecular Approaches toward ...

The majority of apicomplexan parasites, including *T. gondii*, are obligate intracellular pathogens and thus commit significant energy resources to invading host cells [5]. It is widely believed that these parasites rely on glycolysis for energy metabolism, and a recent study has supported this in *T. gondii* [6, 7].

### Apicomplexan Parasites: Molecular Approaches toward ...

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### Cytoskeleton of Apicomplexan Parasites

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### Apicomplexan Parasites : Molecular Approaches toward ...

Apicomplexan Parasites: Molecular Approaches toward Targeted Drug Development (Drug Discovery in Infectious Diseases): 9783527327317: Medicine & Health Science Books @ Amazon.com

### In Search of New Strategies to Fight Apicomplexan ...

Drug Discovery Approaches towards Anti-Parasitic Agents (Andreas Rohwer, Richard J. Marhöfer, Conor R. Caffrey and Paul M. Selzer) New Bioinformatic Strategies against Apicomplexan Parasites (Thomas Dandekar and Ke Xiao) Sorting Potential Therapeutic Targets in Apicomplexa (Jan A. Hiss and Gisbert Schneider)

### New Bioinformatic Strategies Against Apicomplexan Parasites

Antimalarial drugs must reach an extracellular state of the parasite or overcome additional barriers, for example multiple membranes, in order to reach the parasite inside its host cell. This makes the intracellular sorting of target proteins vital for the development and application of antimalarial agents.

### Apicomplexan Parasites: Molecular Approaches toward ...

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### Sorting Potential Therapeutic Targets in Apicomplexa ...

Jortzik, E. and Becker, K. (2011) Energy Metabolism as an Antimalarial Drug Target, in Apicomplexan Parasites: Molecular Approaches toward Targeted Drug Development (ed K. Becker), Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany. doi: 10.1002/9783527633883.ch5

### Structural and functional divergence of the aldolase fold ...

The apicomplexan parasite *Cryptosporidium* is a leading global cause of severe diarrhoeal disease and an important contributor to early childhood mortality. Currently, there are no fully effective ...

### Chemical Biology Approaches for the study of Apicomplexan ...

Project Methods We have two main objectives in the laboratory. The first project involves a genome-wide and system biology approach to investigate the interplay between epigenetics, chromatin structure and the parasite infectious cycles against four apicomplexan parasites, *P. falciparum*, *P. vivax*, *Toxoplasma gondii* and finally *Babesia microti*.

### Recent Drug Discovery against Cryptosporidium ...

Apicomplexan parasites multiply by endodyogeny or schizogeny. As described above, these processes require independent regulation of spindle and subpellicular microtubules. Perhaps consequently, subpellicular microtubules and spindle microtubules are organized by different MTOCs: the apical polar ring and the spindle pole plaque/centrioles, respectively.

### Lipids as Drug Targets for Malaria Therapy - Apicomplexan ...

*Cryptosporidium parvum*, an apicomplexan protozoan, is regarded as one of the most common enteric pathogens affecting humans worldwide, and is the cause of cryptosporidiosis. *C. parvum* primarily targets the small intestine, gall bladder, lungs and conjunctiva, causing acute, watery, and non-bloody diarrhea, enteritis, anorexia, nausea/vomiting, and abdominal pain.

### Apicomplexan parasites : molecular approaches toward ...

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### Energy Metabolism as an Antimalarial Drug Target ...

Introduction. Apicomplexan parasites are one such example, where despite recent advances the continuing lack of robust, rapid and broadly applicable techniques for the conditional regulation of genes highlights the power of studying these parasites through the lens of chemical biology.

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### Apicomplexan parasites : molecular approaches toward ...

Get this from a library! Apicomplexan Parasites : Molecular Approaches toward Targeted Drug Development.. [Katja Becker; P M Selzer] -- This handbook deals with the discovery of drugs to fight apicomplexan parasites, a group of endoparasites that includes the causative agents of malaria, toxoplasmosis, and babesiosis, among others. ...

### Apicomplexan Parasites Molecular Approaches Toward

Written by renowned scientific experts from academia and industry, the book focuses on current drug development approaches for all apicomplexan diseases making it appealing to a large audience, ranging from research labs in academia to the human and veterinarian pharmaceutical industry.

### Apicomplexan Parasites: Molecular Approaches toward ...

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