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Protein Phosphorylation In Parasites: Novel Targets for Antiparasitic Intervention Christian Doerig (Editor) , Gerald Spaeth (Editor) , Martin Wiese (Editor) , Paul M. Selzer (Series Editor) ISBN: 978-3-527-67537-1 October 2013 Wiley-Blackwell 456 Pages

Protein Phosphorylation In Parasites: Novel Targets for ...
Protein Phosphorylation In Parasites: Novel Targets for Antiparasitic Intervention (Drug Discovery In Infectious Diseases Book 5) 1st Edition, Kindle Edition The result will be welcomed by everyone in academia and industry participating in the global effort to finally combat the major diseases caused by eukaryotic parasites.

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Protein Phosphorylation In Parasites. Available now on majorreads - Read anywhere. ISBN 9783527675395, Publisher Wiley-VCH, Pages 456, Language English, Book Type eBook. This is the first book to collect and summarize in one publication the efforts to use kinases or phosphatases for drug development against parasite infections.

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Protein phosphorylation in parasites : novel targets for ...
In *S. japonicum*, protein phosphorylation also plays an important role in the growth, development, and reproduction of the parasite, for which the tyrosine protein kinase (TK) and protein kinase C (PKC) are the representatives [14]. The activity of LmjAQP1 in *Leishmania* sp. is regulated by mitogen-activated protein kinase 2 (MAPK2).

Protein phosphorylation networks in ... - Parasites & Vectors
Protein phosphorylation in parasites: novel targets for antiparasitic intervention. This book, the first of two volumes, is the first to collect and summarize in one publication the efforts to use kinases or phosphatases for drug development against parasite infections, including helminthoses and protozoal infections.

Protein phosphorylation in parasites: novel targets for ...
In order to design better novel therapies against malaria and other parasitic diseases, it is vital to understand the signaling cascades that govern molecular interactions of invasion, and it is becoming clear that protein phosphorylation may be a good avenue for novel interventions.

Protein Kinase A Is Essential for Invasion of Plasmodium ...
However, the phosphorylation on this protein was more prevalent in *T. evansi*. N -glycosylated sites were mainly identified in two proteins, PFR component (PFC16, TritypDB: Tb927.10.11300) and flagellum adhesion protein 2 (FLA2, TritypDB: Tb927.8.4060), and the modifications occurred more frequently in *T. brucei* .

Landscapes of Protein Posttranslational Modifications of ...
The enzymes that mediate PTM of proteins in malaria parasites fulfill many essential functions along the parasites' life cycle and are, in many instances, sufficiently divergent from their mammalian...

Post-translational protein modifications in malaria parasites
Protein phosphorylation is a reversible post-translational modification of proteins in which an amino acid residue is phosphorylated by a protein kinase by the addition of a covalently bound phosphate group. Phosphorylation alters the structural conformation of a protein, causing it to become activated, deactivated, or modifying its function.Approximately 13000 human proteins have sites that ...

Protein phosphorylation - Wikipedia
Artz JD, Vermont AK, Lin LY, et al. Selective Inhibition of Parasite Protein Kinases. In: Doerig C, Spath G, Wiese M, editors. Protein Phosphorylation in Parasites Novel Targets for Antiparasitic Intervention. Weinheim, Germany: Wiley-VCH Verlag GmbH & Co. KGaA; 2013. [Google Scholar]

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In Protein Phosphorylation In Parasites: Novel Targets for Antiparasitic Intervention (pp. xi-xii).

Preface — Monash University
Previous studies in model eukaryotes have demonstrated that phosphorylation of heterochromatin protein 1 (HP1) is important for dynamically regulating its various functions. However, in the malaria parasite *Plasmodium falciparum* both the function of HP1 phosphorylation and the identity of the protein kinases targeting HP1 are still elusive.

Mapping and functional analysis of heterochromatin protein ...
In trypanosomatids, 2 eIF4E homologues (EIF4E3 and EIF4E4) have been shown to be part of eIF4F-like complexes with presumed roles in translation initiation. Both proteins possess unique N-terminal extensions, which can be targeted for phosphorylation. Here, we provide novel insights on the *Leishmania infantum* EIF4E4 function and regulation.

The unique *Leishmania* EIF4E4 N-terminus is a target for ...
The focus of this paper is a dual-specific protein phosphatase (DSP) previously found in the periplasm of the cyanobacterium *Anabaena* PCC 7120 that may regulate circadian rhythms in that organism. To fully understand the topic, summaries of enzyme action, cyanobacteria, circadian rhythms, and phosphorylation cycles are required and therefore discussed in this report before the presentation of ...