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toxoplasma gondii is an obligate intracellular protozoan parasite which is a significant human and veterinary pathogen other members of the phylum apicomplexa are also important pathogens including plasmodium species i e malaria eimeria species neospora babesia theileria and cryptosporidium toxoplasma gondii is an obligate intracellular protozoan parasite which is a significant human and veterinary pathogen other members of the phylum apicomplexa are also important pathogens including plasmodium species i e malaria eimeria species neospora babesia theileria and cryptosporidium toxoplasma gondii is an obligate intracellular protozoan parasite which is a significant human and veterinary pathogen other members of the phylum apicomplexa are also important pathogens including plasmodium species i e malaria eimeria species neospora babesia theileria and cryptosporidium toxoplasma gondii the model apicomplexan perspectives and methods third edition reflects significant advances in the field in the last five years including new information on the genomics epigenomics and proteomics of t gondii along with a new understanding of the population biology and genetic diversity of this organism t gondii remains the best model system for studying the entire apicomplexa group of protozoans which includes malaria making this new edition essential for a broad group of researchers and scientists toxoplasmosis is caused by a one celled protozoan parasite known as t gondii toxoplasma gondii the model apicomplexan perspectives and methods third edition reflects significant advances in the field in the last five years including new information on the genomics epigenomics and proteomics of t gondii along with a new understanding of the population biology and genetic diversity of this organism toxoplasma gondii the model apicomplexan perspectives and methods publication date 2007 topics toxoplasma gondii toxoplasmosis toxoplasma physiology toxoplasma pathogenicity toxoplasmosis diagnosis toxoplasmosis therapy publisher toxoplasma gondii the model apicomplexan perspectives and methods third edition reflects significant advances in the field in the last five years including new information on the this model refers to a complex molecular structure at the origin of gliding a signature movement of apicomplexa that is essential for the manifestation of their pathogenicity the ease of genetic manipulation accessibility to cellular and biochemical experiments and well established animal model make t gondii an important system for studying apicomplexan biology toxoplasma gondii

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years including new information on the genomics epigenomics and proteomics of t gondii along with a new understanding of the population biology and genetic diversity of this organism heterologous expression of apicomplexan proteins in t gondii has frequently facilitated further characterisation of proteins that could not be easily studied recent studies of apicomplexa have been complemented by genome sequencing projects that have facilitated discovery of surprising differences in cell biology and metabolism between toxoplasma gondii the model apicomplexan perspectives and methods louis m weiss kami kim research output book report book 48 scopus citations overview fingerprint abstract toxoplasmosis is caused by a one celled protozoan parasite known as toxoplasma gondii using the apicomplexan model toxoplasma we identified the molecular composition and behavior of unusual fixed endocytic structures here stable complexes of endocytic proteins differ many apicomplexan parasites harbor a unique organelle called the apicoplast that houses metabolic pathways like fatty acid and isoprenoid precursor biosyntheses requiring pyruvate as a apicomplexa comprise a large phylum of single celled obligate intracellular protozoan organisms that all have a parasitic lifestyle toxoplasma gondii the model apicomplexan perspectives and methods third edition reflects significant advances in the field in the last five years including new information on the genomics epigenomics and proteomics of t gondii along with a new understanding of the population biology and genetic diversity of this organism t gondii remains the best model system for studying the entire apicomplexa group of protozoans which includes malaria making this new edition essential for a broad group of researchers and scientists toxoplasmosis is caused by a one celled protozoan parasite known as t gondii genome scale mutagenesis screens for genes essential for apicomplexan parasite survival have been completed in three species plasmodium falciparum the major human malaria parasite p berghei a model rodent malaria parasite and the more distantly related toxoplasma gondii the causative agent of toxoplasmosis here we catalog the taxonomic profile of each apicomplexan species and identify those that share little or no similarity to nonapicomplexan proteins from this set of apicomplexan specialized sequences protein families are constructed and placed within the context of the apicomplexan phylogeny

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heterologous expression of apicomplexan proteins in t gondii has frequently facilitated further characterisation of proteins that could not be easily studied recent studies of apicomplexa have been complemented by genome sequencing projects that have facilitated discovery of surprising differences in cell biology and metabolism between

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many apicomplexan parasites harbor a unique organelle called the apicoplast that houses metabolic pathways like fatty acid and isoprenoid precursor biosyntheses requiring pyruvate as a

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apicomplexa comprise a large phylum of single celled obligate intracellular protozoan organisms that all have a parasitic lifestyle

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here we catalog the taxonomic profile of each apicomplexan species and identify those that share little or no similarity to nonapicomplexan proteins from this set of apicomplexan specialized sequences protein families are constructed and placed within the context of the apicomplexan phylogeny

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