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relationship between parasite and host in parasites and pathogens of insects ed beckage n e thompson s n federici b a vol 1 pp 25 57 new york academic press crossref google scholar 144 citations abstract the invasive stages zoites of most apicomplexan parasites are polarised cells that use their actinomyosin powered gliding motility or glideosome system to move over surfaces migrate through biological barriers and invade and leave host cells the papers in the parasite metabolism section focus primarily on three groups of parasites leishmania malaria and helminthes topics covered include the isolation and characterization of a proteolytic enzyme from plasmodium lophurae duck malaria the selection and culture of malaria parasites resistant to aminopterin and regulation of this review focuses on the elements of utrs of medically important protozoan parasites and their regulatory role in gene expression such information may be useful to researchers in designing gene targeting strategies linked with perturbation of host parasite relationships leading to control of specific parasites in this review we summarize recent discoveries relevant to flagellar membrane proteins in these parasites including the identification of such proteins investigation of their biological functions and mechanisms of selective trafficking to the flagellar membrane prospects for future investigations and current unsolved problems are highlighted apicomplexan parasites rely on calcium mediated signaling for a variety of vital functions including protein secretion motility cell invasion and differentiation these functions are controlled by a variety of specialized systems for uptake and release of calcium which acts as a second messenger and on the functions of calcium dependent core laboratories laboratory of parasite systems biology kikuchi taisei prof e mail comparative genomics parasitology evolutionary biology functional genomics bioinformatics chromatin diminution infectious diseases longevity understanding novel biomechanisms in unexplored areas of biology 1 developing new model platforms steven r meshnick j joseph marr part of the book series subcellular biochemistry scbi volume 18 245 accesses 2 citations abstract intracellular protozoan parasites cause many of the most severe and widespread diseases of man particularly malaria leishmaniasis chagas disease and toxoplasmosis

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