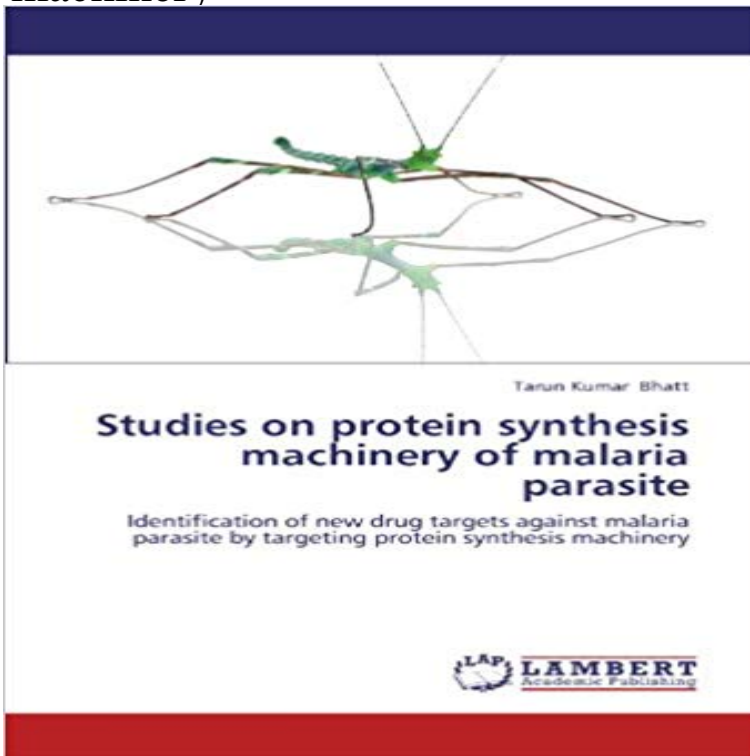


Studies on protein synthesis machinery of malaria parasite: Identification of new drug targets against malaria parasite by targeting protein synthesis machinery



This book is dedicated to my villagers who lost their life due to malarial epidemics. In present work, I have shown the systematic studies of identifying new and effective drug targets against malaria parasite, Plasmodium. We utilized different strategy and disciplines starting from Bioinformatics, Biochemistry to Immunology and Structural Biology to unveil the hidden potential of very basic group of proteins, aminoacyl-tRNA synthetases (aaRSs). This group of proteins are very primitive and known to involve in protein synthesis machinery of cell. But, apart from doing their canonical function, these proteins are also involved in various other crucial pathways of cell. In Plasmodium, we have shown that Tyrosyl-tRNA synthetase (YRS) might be one of the important proteins or factors involved in host immune modulation.

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protein **Inhibitors of Nonhousekeeping Functions of the Apicoplast Defy** 24. Juli 2012 Identification of new drug targets against malaria parasite by targeting protein synthesis machinery. LAP Lambert Academic Publishing (2012), **The European Unions 7 Research Framework Programme** The malaria parasite Plasmodium spp. varies the expression profile of its control protein translation in blood stages of the human malaria parasite contributing to drug resistance and define new targets for malaria intervention strategies. machinery is recruited to the promoter of a gene to synthesize **Studies on protein synthesis machinery of malaria parasite** Studies on protein synthesis machinery of malaria parasite: Identification of n . of new drug targets against malaria parasite by targeting protein synthesis **Macromolecular Crystallography in India, IUCr, 2017** As a drug target, the apicoplast can be considered to anti-parasitocidal activity against Toxoplasma gondii, replication as the drug target of choice in the parasite [29]. 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Numerous drugs have been developed to target the protein synthesis **Studies on protein synthesis machinery of malaria parasite, 978-3** Studies on protein synthesis machinery of malaria parasite. Identification of new drug targets against malaria parasite by targeting protein **Studies on protein synthesis machinery of malaria parasite / 978-3** 2 Division of Molecular and Structural Biology, Central Drug Research Institute Council Road, New Delhi 110 067, India The protein translation machinery of the parasite Plasmodium is the target of important anti-malarial drugs, initiation of protein synthesis. from the identification of ribosome-like particles carrying. **Protein synthesis - BIO Ventures for Global Health** Studies on protein synthesis machinery of malaria parasite. Identification of new drug targets against malaria parasite by targeting protein