## Structural and functional characterization of 6phosphogluconate dehydrogenase in *Plasmodium falciparum* (3D7) and identification of its potent inhibitors

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## Abstract

The malarial parasite *Plasmodium falciparum* predominantly causes severe malaria and deaths worldwide. Moreover, resistance developed by *P. falciparum* to frontline drugs in recent years has markedly increased malaria-related deaths in South Asian Countries. Ribulose 5-phosphate and NADPH synthesized by Pentose Phosphate Pathway (PPP) act

as a direct precursor for nucleotide synthesis and P. falciparum survival during oxidative

challenges in the intra-erythrocytic growth phase . In the present study, we have

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