Inhibitors of the phosphoribosyltransferases of protozoan parasites *P. falciparum* and *T. cruzi*.

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The protozoan parasites *P. falciparum* and *T. cruzi* are purine auxotrophs and require the salvage of purine bases from the host erythrocytes to perform nucleic acid synthesis. Purine salvage enzymes are attractive targets in the development of novel therapeutics for malaria and Chagas disease.

The design and synthesis of transition state analogue inhibitors will be presented that show good potency across all isozymes of both parasites.

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