

FIRES abstract

Synthesizing New Molecules for an Antifungal Drug

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Methionine Synthase (MetSyn) is an essential enzyme for all organisms. Taking advantage of key differences between fungal MetSyn and mammalian MetSyn, an antifungal drug could be developed to exclusively inactivate the fungal cell while leaving the host (patient) unaffected. To develop an inhibitor of fungal MetSyn we have begun the synthesis on two molecules which mimic folate, a necessary compound for MetSyn to function.