**TITLE:** The use of a genetic marker to predict response to L-methylfolate as a treatment for depression

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**RESEARCH PROJECT DESCRIPTION:**

More than half of patients with depression treated with only one agent will fail to achieve remission of their symptoms in a major depressive episode. Recent studies have suggested that the biologically active form of folic acid, L-methylfolate is safe, efficacious and well tolerated as adjunctive treatment to standard antidepressants. MTHFR is the enzyme which converts folic acid to the biologically available form, L-methylfolate. We will assess MTHFR genotypes of subjects enrolled in the study and assess response to L-methylfolate in depressed subjects based on genotype. Medical students will participate in obtaining clinical data from subjects and aid in subject screening. Funding for the project is provided through the UF Department of Psychiatry.

