

Studies on the role of amino acid neurotransmitters in depression by using an animal model and antidepressant treatment

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The present study demonstrates the effect of the i.p. injection of fluoxetine (5 mg/kg body wt.) on the concentration of amino acid neurotransmitters, glutamic acid, aspartic acid, GABA, glycine, taurine and the amide glutamine in the cortex and hypothalamus of reserpinized adult male albino rats, as an induced model of depression.

This study also, investigates the effect of the i.p administration of fluoxetine on the band power spectra of ECoG waves in the freely moving reserpinized animal model of depression. The present study also, investigates the withdrawal effect of reserpine and fluoxetine on the above mentioned amino acid levels in the cortex and hypothalamus besides the band power spectra of the ECoG waves.