Aims and Objective

"From error to error, one discovers the entire truth."

- Sigmund Freud

(Austrian neurologist, 1856-1939) -
A fact is a simple statement that everyone believes. It is innocent, unless found guilty. A hypothesis is a novel suggestion that no one wants to believe. It is guilty, until found effective. ~Edward Teller

The overall aim of the present thesis was to investigate the effect of Curcumin and curcuma oil on the attenuation of infarct and the recovery of sensorimotor and cognitive function after focal cerebral ischemia in rats. Our hypothesis was that curcumin and curcuma oil initiates molecular events that stimulate neuronal plasticity in the brain associated with improved recovery after experimental stroke.

Specific aims were:

• To investigate the dose dependent effect of curcumin and C.oil on cellular injury, neurological deficits after experimental stroke.

• To investigate potential molecular mediation by curcumin and C.oil on the nitric oxide system that affects the necrosis and apoptosis caused by focal brain ischemia.

• To investigate neurogenesis and angiogenesis initiated by curcumin and C.oil post ischemia from 8 hrs till seven days after ischemic brain insult.