

Research interest:

The aim of my work is to develop agents that mediate protection against transient forebrain ischemia-induced damage in the rat hippocampus. Previous studies suggest that reactive oxygen species play an important role in hippocampal neuronal damage after transient global cerebral ischemia. The importance of my research study is to understand the underlying molecular mechanism by which forebrain ischemia induces hippocampal neuronal damage and also the possible tools mainly antioxidants agents to protect these neurons. In my laboratory, I use a rat model of forebrain ischemia; 2-vessel occlusion model; for inducing transient forebrain ischemia. A key feature of my research is the reliance upon both histological and biochemical examinations related to transient forebrain ischemia utilized over 7 days of recovery.