



ischemic stroke were ongoing but uncompleted. This project wants to establish a complete model to estimate the protective effects of herbal medicines of ischemic stroke by in vitro and in vivo studies. Platelet aggregation and neutrophil activation play important roles in the pathology of ischemic stroke. This project will make an investigation of the protective effects of herbal medicines in the two important part of ischemic stroke by in vitro studies. Andrographolide, an active compound of *Andrographis paniculata*, may have protective effects in ischemic stroke through its free radicals scavenging, anti-inflammation and neuroprotective properties. But the research of andrographolide on ischemic stroke is still absent. The mechanisms of andrographolide in anti-platelet aggregation and the neuroprotective effect are still unclear now. Besides, we also want to investigate the effects of the chinese traditional compound medicine-SHIEE FUU JWU IU TANG on ischemic stroke. This project will have a complete model to estimate the neuroprotective effects and the possible mechanisms of andrographolide by in vivo and in vitro studies.