Neuroscience! Heal the world of Neurological Impairments

Chinese Medicine for Neuro Disorders

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Abstract {Max words limit 250}

Stroke is great challenge to human health. Blood brain barrier (BBB) and neuroregenesis is the key of stroke treatment.

WuShenXingNaoFan (WSXN) composed of Ginseng Radix, polygoni multiflori and gingko leaf, has been made into dropping pill available for clinical stroke.

1. Brain Targeting

WSXN reversibly open the BBB by activating adenosine receptor and phosphorylating the BBB related protein, greatly increase the bioavailability of ginsenosides and ginkgolide through the BBB into the brain tissue, as much as 2 ~ 8 imes.

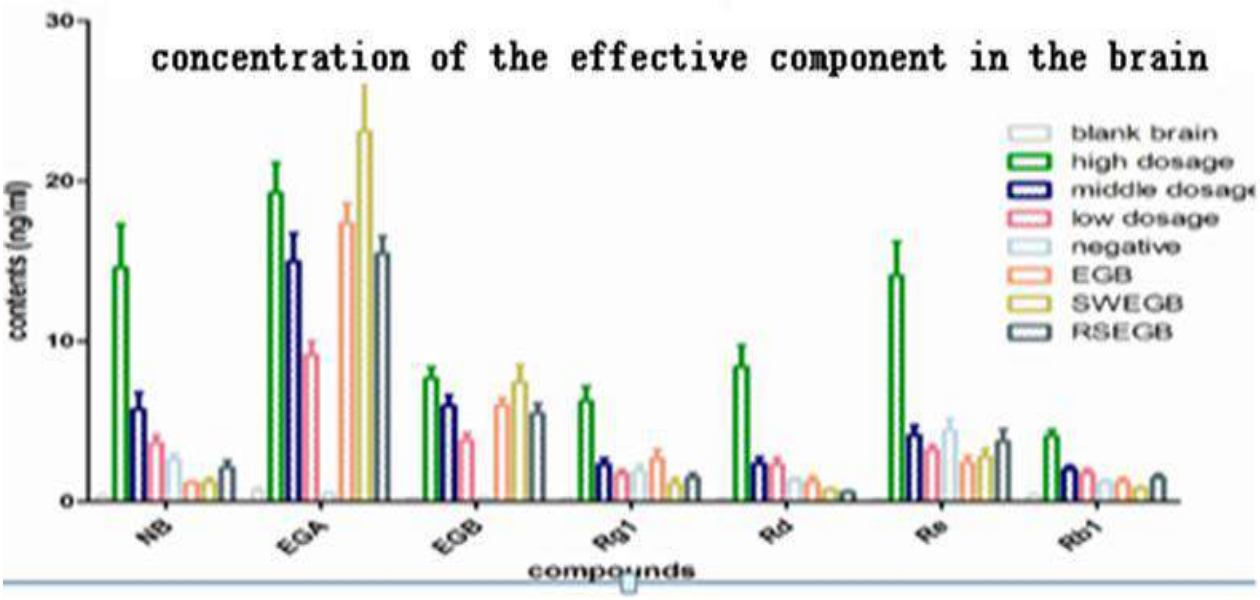


Fig 1 EGB effects on BBB

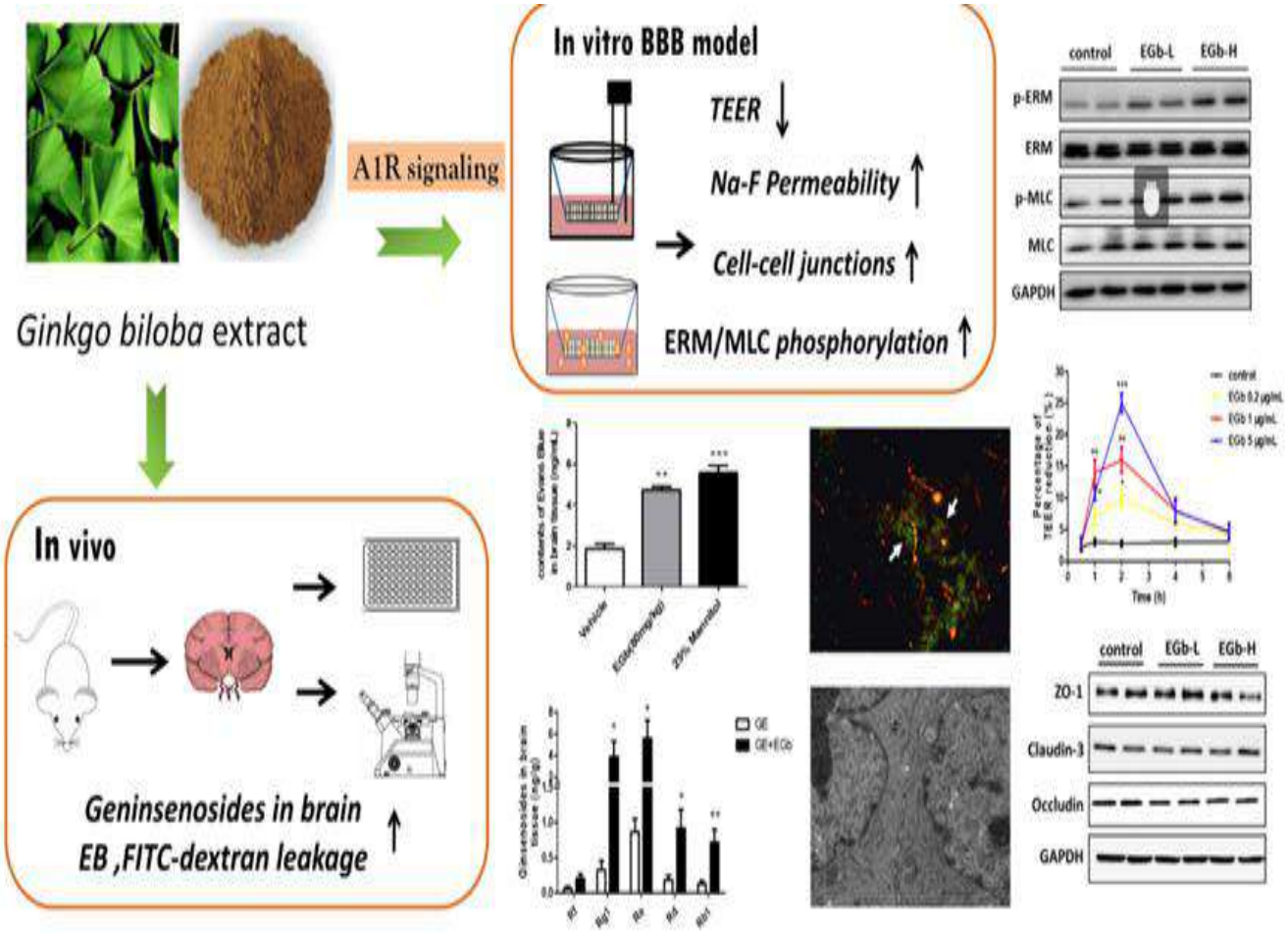


Fig 2 EGB effects on BBB and its mechanism

2. Orally dosing 40,80 mg/kg of WSXN for 7 days or 14 days can significantly reduce ischemic infarction area > 35% in MCAO and 4 VO cerebral ischemia model rats, inhibit the neuroinflammation, and mortality of the hippocampus CA1 neurons > 60%; and also improve the learning and memory of damaged rats; increase the number of BrdU positive cells in the ischemic brain by 300%, and promote the neurogenesis and vasculargenesis. 0.2 ~ 5 μg/ml of WSXN can promote the proliferation and directional differentiation of neural stem cells, reduce neuronal injury and apoptosis of the neuron induced by Hypoxia oxidative stress and Aß 25-35,

its efficacy index is superior to that of ginkgo biloba extract (EGB761 ®) .

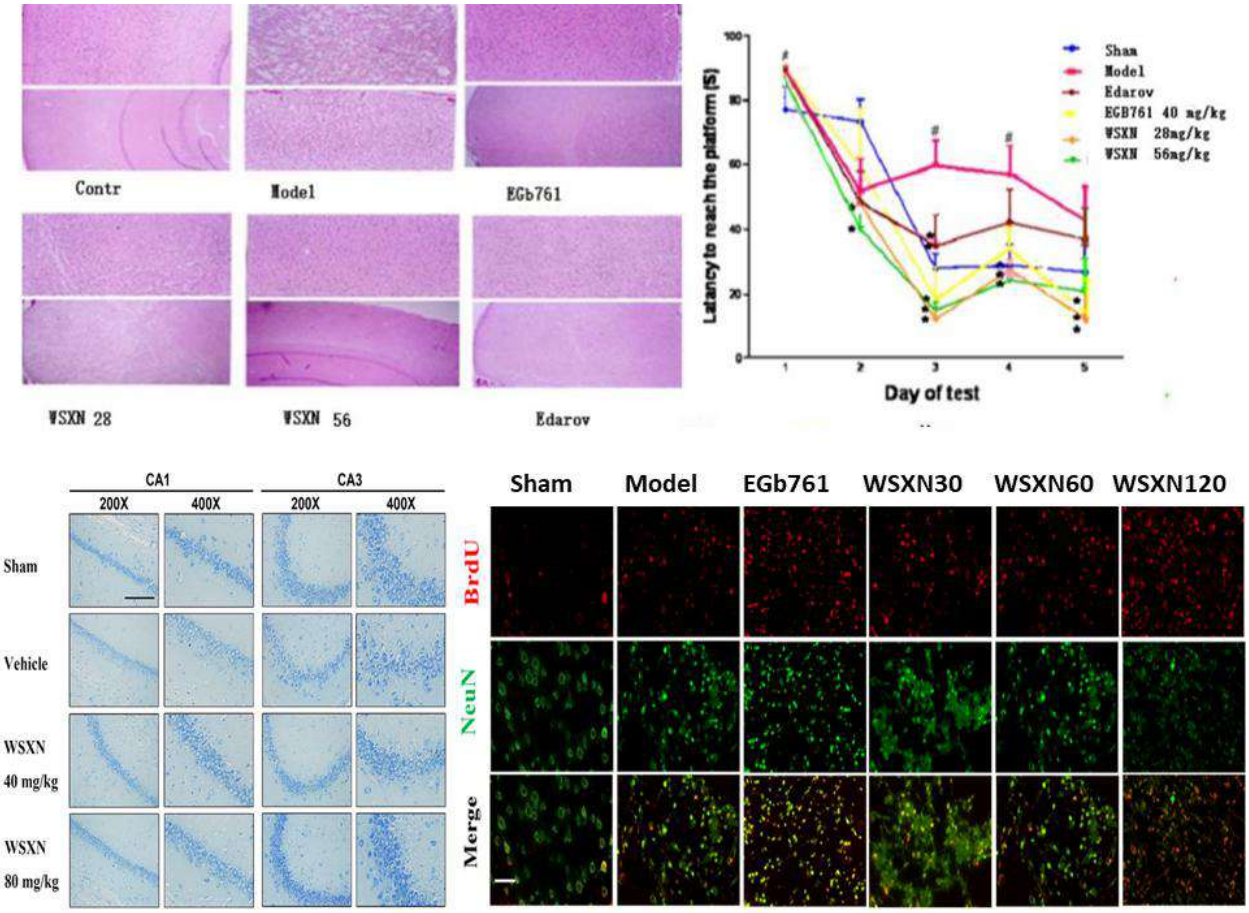


Fig. 2 Neuroprotection and neuroregenesis of WSXN

3. Rats oral administration of WSXN for 90 days showed no obvious liver and kidney toxicity.

4. Clinical volunteers orally take WSXN pill 0.35 g/, tid for 2 months can relieve movement disorder, cognitive impairment of the stroke patients and AD， muscle tremor symptom of Parkinson's disease, return to independent living with effective rate > 70%.

Keywords—Stroke,,Blood Brain Barrier, Neurogenesis, Chinese Medicine

Short Biography: {Max words limit 100}

Weijian Bei has completed his PhD at 2004 from SunYatsen University.

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Medicinal Sciences, Guangdong Pharmaceutical University, Completed more than 30 items of natonal research projects, in the Chinese medicine for the control and prevention of CVD and neuro degenerative disease and metabolic disease. He have develop innovative Chinese medicine -Wushen Xingnao pill for neurodisorder with 15 authorized Chinese, US and Europe invention patents, Naoxinqin, his developed CP medicine, sales exceeded 2.5 Billion yuan. He has published more than 100 papers in reputed journals and is an editorial board member of JICM

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