

5th International Conference and Exhibition on**Metabolomics****May 16-18, 2016 Osaka, Japan****Treatment of natural plants on diabetes and metabolic syndrome****Jingxin Zhou**

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The increasing incidence of diabetes and metabolic syndrome becomes a worldwide threat to global human health. Chinese herbs and natural plants have played an important role in health maintenance for thousand years. Our study have indicated that Chinese medicine including formula, herbal extracts, and compounds mediates the glucose and lipid metabolism. We found Tang-Nai-Kang granules improve the glucose intolerance and insulin resistance by mediating fatty acid oxidation in SHR.Cg-Leprcp/NDmcr rats. Meanwhile, guava leaf extracts significantly enhanced the insulin-related signaling to activate the insulin signaling and promoting glucose metabolism and fatty acid oxidation, lead to the improvement of insulin sensitivity in the SHRSP/ZF rats. In addition, Isoquercitrin appears to regulate AMPK activation, thereby enhancing AdipoR1 expression, suppressing SREBP-1 and FAS expressions, and resulting in the regulation of lipid accumulation *in vivo*.

Biography

Jingxin Zhou has completed MD from Beijing University of Chinese Medicine in 2014. She is a Doctor in Department of Endocrinology, Dongzhimen Hospital Eastern, Beijing University of Chinese Medicine. She does research on Chinese medicine treating diabetes and metabolic syndrome.

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