



## 基于糖代谢酶调节作用的中药抗糖尿病研究进展

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中文摘要:糖尿病是危及人类健康的全球性疾病,近年来发病率不断提高,糖代谢异常是糖尿病的主要病理因素之一,相关糖代谢酶如 $\alpha$ -葡萄糖苷酶( $\alpha$ -glucosidase),葡萄糖-6-磷酸酶(glucose-6-phosphatase,G-6-P),糖原磷酸化酶(glycogen phosphorylase,GP)和糖原合成酶激酶-3(glycogen synthase kinase-3,GSK-3)参与并调控了糖代谢过程,因此调节糖代谢酶活性对糖尿病的治疗有重要意义。中药因其高效低毒作用而被广泛研究和应用,多种中药提取物和成分被证实为糖代谢酶的调节剂,与抗糖尿病西药相比,中药治疗糖尿病具有安全、可靠、价格低廉等优点。该文就糖代谢酶调节的中药抗糖尿病研究作一简要的综述。

中文关键词:糖尿病 糖代谢酶 中药 抗糖尿病药物

### Research progress of effect of anti-diabetic traditional Chinese medicines based on regulation of glucose metabolic enzyme

Abstract:Diabetes is a global threat threatening human health in the world, with an increasing incidence rate in recent years. The disorder of glucose metabolism is one of the major factors. As relevant glucose metabolic enzymes such as  $\alpha$ -glucosidase, glucose-6-phosphatase (G-6-P), glycogen phosphorylase (GP) and glycogen synthase kinase-3 (GSK-3) get involved in and control the process of glucose metabolism, the regulation of the activity of glucose metabolic enzymes is of significance to the treatment of diabetes. Traditional Chinese medicines (TCMs) have been widely researched because of their low toxicology and high efficiency, and many extracts and components from TCMs have been proven to be regulators of glucose metabolic enzymes. Compared with anti-diabetic western medicines, anti-diabetic TCMs feature safety, reliability and low price. This essay summarizes the anti-diabetic effect of TCMs on regulating glucose metabolic enzymes.

keywords:diabetes glucose metabolic enzymes traditional Chinese medicine anti-diabetic drug

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