



中药调节肾脏细胞信号通路机制的研究进展

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中文摘要:肾脏细胞的增殖、分化和凋亡以及相关细胞因子、炎症介质的表达都与细胞信号通路有密切的关系。这些信号通路包括酪氨酸激酶通路、转化生长因子- β /Smad通路、Rho/Rho相关卷曲螺旋形成蛋白激酶通路、肌醇磷脂通路、环核苷酸通路、核因子 κ B通路等。单味中药及其提取物(如大黄、雷公藤甲素等)和一些中药复方(如黄芪当归合剂、柴苓汤等)不仅可以调节细胞信号通路而改善肾脏细胞的增殖、分化和凋亡,而且还可以通过干预信号通路中关键信号分子的磷酸化过程,从而调控靶基因的转录、表达以及相应的生物学效应。

中文关键词:中药 肾脏 细胞信号通路

Regulative mechanism of Chinese herbal medicine on cell signaling pathway in kidney

Abstract:In kidney, the role of cell proliferation, differentiation, apoptosis, inflammatory mediators and cytokines expression is closely related with cell signaling pathways, including tyrosine kinase pathway, transforming growth factor- β /Smad pathway, Rho/Rho-associated coiled-coil forming protein kinase pathway, phosphoinositol pathway, cyclic nucleotide pathway, nuclear factor kappaB pathway and so on. Some Chinese herbs and their extracts, such as rhubarb and triptolide, as well as some Chinese herbal prescriptions, such as astragalus-angelica mixture and Chailing decoction, not only could ameliorate proliferation, differentiation and apoptosis of renal cell by regulating cell signaling pathways, but also could control target gene transcription, expression and its biological effects through inhibiting the phosphorylation of key signaling molecules.

keywords:Chinese herbal medicine kidney cell signaling pathway

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