



中文标题  检索 药刊检索

吴茱萸水提物给药大鼠尿液代谢组学研究

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中文摘要: 目的: 研究吴茱萸水提液给药对大鼠内源性代谢产物的影响。 方法: 吴茱萸水提物按0.385 7 g · kg<sup>-1</sup>给SD大鼠连续灌胃3 d, 收集尿液, 通过Agilent 1200 6410 三重四极杆质谱对尿液中内源性代谢物进行全扫描分析, SIMCA-P软件经过PCA、PLS-DA分析。 结果: 给药组与对照组相比, 大鼠尿液代谢物白蛋白、三烯-棕榈酸乙醇胺、二十二碳六烯酸、8(R)-氢过氧亚油酸、花生酸等有明显变化。 结论: 吴茱萸水提物灌胃对正常大鼠机体代谢产生影响, 为进一步阐释吴茱萸的药学研究工作提供依据。

中文关键词: 液质联用 代谢组学 吴茱萸 生物标记物

## Preliminary study of metabonomics on aqueous extract of *Evodia rutaecarpa* in sprague-dawley rats

**Abstract:** Objective: To study the change of endogenous metabolites of SD rats administrated of aqueous extract of *Evodiae rutaecarpa*. Method: Six SD rats had been successively administrated aqueous extract of *E. rutaecarpa*(0.385 7 g · kg<sup>-1</sup>) for 33 days. An agilent 1200 6410 triplequadrupole mass spectrometer was used for the analysis of endogenous metabolites in rat urine samples. These data was analyzed by the principal component analysis (PCA) and PLS-DA using the SIMCA-P 10.0 software. Result: The significant difference in metabolic profiles between the control group and the dosed group was well observed by PCA of the MS data. Conclusion: The *E. rutaecarpa* has changed the endogenous metabolites of SD rats. This work can provide the base for the further research on the interpretation of drug property of *E. rutaecarpa*.

**keywords:** LC-MS/MS metabonomics *Evodia rutaecarpa* biomarker

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