

研究报告

# 实时荧光定量检测中国实验用小型猪肝脏CYP3A29 mRNA表达水平

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## 摘要

CYP3A29是猪肝脏最重要的药物代谢关键酶。研究中国实验用小型猪肝脏CYP3A29 mRNA的表达特性对于评估其是否适宜于作为人CYP3A4介导的药理学研究动物模型具有一定意义。以 $\beta$ -actin作校正, 利用TaqMan定量技术对巴马香猪、贵州小型香猪肝脏CYP3A29 mRNA表达水平进行检测, 并以荣昌猪作为对照。结果表明, 巴马香猪、贵州小型香猪、荣昌猪肝脏CYP3A29 mRNA表达水平与报道的人肝脏CYP3A4相近; 三品系(种)猪间肝脏CYP3A29 mRNA表达水平较为接近, 但品系(种)内个体间变异较大。提示巴马香猪、贵州小型香猪作为药物评价的实验动物具有一定可行性。

关键词 [巴马香猪](#) [CYP3A29](#) [TaqMan定量](#)

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## Abstract

CYP3A29 is the most important key enzyme for drug metabolism in pig's liver. Research of the characters of CYP3A29 mRNA expression in Chinese experimental miniature pig's livers is significant for evaluating it whether suitable for experimental model for drug metabolism mediated by human CYP3A4 enzyme. In this study, the levels of CYP3A29 mRNA expression in livers of Bama miniature pigs, Guizhou miniature pigs and Rongchang pigs were studied by TaqMan-mediated quantitative RT-PCR. Results indicated that the CYP3A29 mRNA expression levels in livers of these species were close to literatures of human. Levels of CYP3A29 mRNA expression were similar among livers of Bama miniature pigs, Guizhou miniature pigs and Rongchang pigs, but interindividual variations were quite large. It was suggested that Bama miniature pigs and Guizhou miniature pigs were both feasible for experimental animal model for evaluating drug metabolism in some degree.

Key words [Bama miniature pig](#) [Guizhou miniature pig](#) [CYP3A29](#) [TaqMan](#)

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