

## HSV-2 LAT过表达vero细胞中microRNA的表达谱变化([点击查看pdf全文](#))

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Title: Changes of microRNA expression profiles in Vero cells induced by HSV-2 LAT overexpression

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关键词: [疱疹病毒II型](#); [LAT](#); [microRNA](#); [基因芯片](#); [逆转录病毒](#)

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摘要: 目的分析过表达疱疹病毒II型(HSV-2)潜伏相关转录子LAT后vero细胞microRNA表达谱的表达变化。方法通过化

学合成的方法获得LAT基因的全长序列。构建HSV-2LAT逆转录病毒表达载体pRetroQ- AcGFP1-C1, 包装获得HSV-2LAT

基因过表达的逆转录病毒。利用microRNA芯片技术, 分析感染逆转录病毒HSV-2LAT后vero细胞microRNA表达谱的变化,

得到因LAT基因过表达而产生变化的microRNA。结果通过microRNA芯片分析, 逆转录病毒HSV-2LAT感染vero细胞后,

可引起hsa-miR-23a\*、kshv-miR-K12-3、hsa-miR-943、hsa-miR-634、hsa-miR-12705种microRNA2倍以上上调; 使hsa-miR-181a-2\*、hsa-miR-450b-5p、hsa-miR-31、hsa-miR-24、kshv-miR-K12-12\*5种microRNA2倍以上下调。结论LAT基因过表达后

可引起vero细胞microRNA表达谱的变化。

Abstract: ObjectiveTo investigate the changes in the microRNA expression profile of Vero cells induced by HSV-2LAT

overexpression.MethodsThe full-length open reading frame of HSV-2 LAT was synthesized and cloned into pRetroQ-AcGFP1-C1vector, and the recombinant retrovirus expressing HSV-2LAT was packaged. Using a microRNA microarray, the

microRNA expression profile changes in Vero cells were analyzed after infection with the recombinant retrovirus.ResultsIn

Vero cells infected with the recombinant retrovirus for stable HSV-2 LAT overexpression,5 microRNAs (hsa-miR-23a\*,

kshv-miR-K12-3, hsa-miR-943, hsa-miR-634, and hsa-miR-1270) were up-regulated and 5(hsa-miR-181a-2\*, hsa-miR-450b-5p,

hsa-miR-31, hsa-miR-24, and kshv-miR-K12-12\*) were down-regulated.ConclusionThe expression of HSV-2LAT can induce

changes in microRNA expression profile in Vero cells.

### 参考文献/REFERENCES

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