

## **了中国肺癌杂志** elssn 1999-6187

pISSN 1009-3419

首页 | 关于我们 | 登录 | 注册 | 搜索 | 最新一期 | 过刊浏览 | 公告 | 稿约 | 在线投稿 | Online submission Endnote参考文献模板 | 提前在线出版

**Ⅲ** 首页 > 卷 12, 编号 10 (2009) > JIANG

hsa-miR-125a-5p Enhances Invasion in Non-small Cell Lung Carcinoma Cell Lines by Upregulating Rock-1

Lili JIANG, Qingfu ZHANG, Hongji CHANG, Xueshan QIU, Enhua WANG

摘要

Background and objective MicroRNAs (miRNAs) are endogenous, non-coding small RNA in eukaryotes. They recognize their target sites by incomplete base pairing and posttranscriptionally regulate gene expression, and function on a lot of complex vital processes of organisms. The objective of this work is to study how hsa-miR-125a-5p enhances the invasive ability of lung cancer cells. Methods The target gene and its target sites of hsa-miR-125a-5p were predicted by microRNA.org. We investigated Rock-1 mRNA and protein expressions by RT-PCR and Western blot according to the result of prediction further. The invasive ability of A549 cells, which were transfected with sense hsa-miR-125a-5p 2'-Omethyl oligonucleotide after being blocked by anti-Rock-1, was observed by Transwell. Results With RT-PCR and Western blot, Rock-1 mRNA and protein were both increased in A549 cells transfected with sense hsa-miR-125a-5p 2'-O-methyl oligonucleotide and were both decreased in the cells which transfected with antisense vs control groups. The invasive ability of A549 cells transfected with sense hsa-miR-125a-5p 2'-O-methyl oligonucleotide were weakened after being blocked by anti-Rock-1, vs non-blocking group by Transwell test. Conclusion hsa-miR-125a-5p could up-regulate Rock-1 and enhance invasion in lung cancer cells.

全文: PDF HTML





## ARTICLE TOOLS



索引源数据



🧧 如何引证项目



🔟 查找参考文献



宙杳政策

Email this article (Login required)

## RELATED ITEMS



Related studies Databases Web search



🛂 Show all

## ABOUT THE **AUTHORS**

Lili JIANG

Qinqfu ZHANG

Hongji CHANG

Xueshan OIU

Enhua WANG