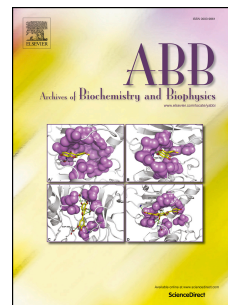


# Accepted Manuscript

Long non-coding RNA ROR promotes radioresistance in hepatocellular carcinoma cells by acting as a ceRNA for microRNA-145 to regulate RAD18 expression

Ying Chen, Zetian Shen, Yingru Zhi, Hao Zhou, Kai Zhang, Ting Wang, Bing Feng, Yitian Chen, Haizhu Song, Rui Wang, Xiaoyuan Chu



PII: S0003-9861(17)30848-2

DOI: [10.1016/j.abb.2018.03.018](https://doi.org/10.1016/j.abb.2018.03.018)

Reference: YABBI 7678

To appear in: *Archives of Biochemistry and Biophysics*

Received Date: 15 December 2017

Revised Date: 27 February 2018

Accepted Date: 16 March 2018

Please cite this article as: Y. Chen, Z. Shen, Y. Zhi, H. Zhou, K. Zhang, T. Wang, B. Feng, Y. Chen, H. Song, R. Wang, X. Chu, Long non-coding RNA ROR promotes radioresistance in hepatocellular carcinoma cells by acting as a ceRNA for microRNA-145 to regulate RAD18 expression, *Archives of Biochemistry and Biophysics* (2018), doi: 10.1016/j.abb.2018.03.018.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Long non-coding RNA ROR promotes radioresistance in hepatocellular carcinoma cells by acting as a ceRNA for microRNA-145 to regulate RAD18 expression

Ying Chen<sup>a,1</sup>, Zetian Shen<sup>b,1</sup>, Yingru Zhi<sup>a,1</sup>, Hao Zhou<sup>b,2</sup>, Kai Zhang<sup>a,3</sup>, Ting Wang<sup>a,4</sup>, Bing Feng<sup>a,5</sup>, Yitian Chen<sup>a,6</sup>, Haizhu Song<sup>a,7</sup>, Rui Wang<sup>\*</sup>, Xiaoyuan Chu<sup>\*</sup>

<sup>a</sup>Department of Medical Oncology, Jinling Hospital, School of Medicine, Nanjing University, Nanjing, Jiangsu 210002, China

<sup>b</sup>Department of Medical Oncology, Jiangsu Cancer Hospital Affiliated to Nanjing Medical University, Jiangsu Institute of Cancer Research, Jiangsu210002, China.

\*Correspondence author: Rui Wang, MD and Xiaoyuan Chu, MD Department of Medical Oncology, Jinling Hospital, School of Medicine, Nanjing University, Nanjing, Jiangsu 210002, China. +86-25-80860072 Fax: +86-25-80860072, E-Mail: wangrui218@163.com; chuxiaoyuan000@163.com.

### Abstract

Radiotherapy plays a limited role in the treatment of hepatocellular carcinoma (HCC) due to the development of resistance. Therefore, further investigation of underlying mechanisms involved in HCC radioresistance is warranted. Increasing evidence shows that long non-coding RNAs (linc-RNAs) are involved in the pathology of various tumors, including HCC. Previously, we have shown that long noncoding RNA regulator of reprogramming (linc-ROR) promotes HCC metastasis via induction of epithelial-mesenchymal transition (EMT). However, the roles of linc-ROR in HCC radioresistance and its possible mechanisms are unclear. Here, we established two radioresistant HCC cell lines (HepG2-R and SMMC-7721-R) and found that linc-ROR was significantly upregulated in radioresistant HCC cells. Knockdown of

Download English Version:

<https://daneshyari.com/en/article/8288654>

Download Persian Version:

<https://daneshyari.com/article/8288654>

[Daneshyari.com](https://daneshyari.com)