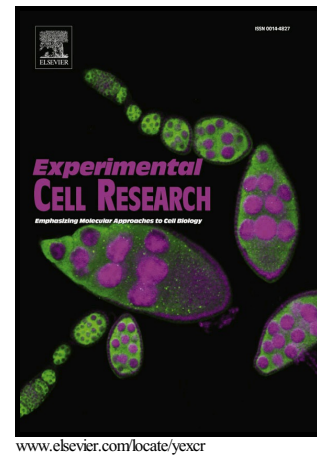


Nrf2 suppresses the function of dendritic cells to facilitate the immune escape of glioma cells

Jialiang Wang, Peng Liu, Shaoyan Xin, Zongbao Wang, Jun Li



PII: S0014-4827(17)30403-2  
DOI: <http://dx.doi.org/10.1016/j.yexcr.2017.07.031>  
Reference: YEXCR10678

To appear in: *Experimental Cell Research*

Received date: 23 February 2017  
Revised date: 29 June 2017  
Accepted date: 25 July 2017

Cite this article as: Jialiang Wang, Peng Liu, Shaoyan Xin, Zongbao Wang and Jun Li, Nrf2 suppresses the function of dendritic cells to facilitate the immune escape of glioma cells, *Experimental Cell Research* <http://dx.doi.org/10.1016/j.yexcr.2017.07.031>

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 galley proof before it is published in its final citable 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.

**Nrf2 suppresses the function of dendritic cells to facilitate the immune escape of glioma cells**Jialiang Wang<sup>a1</sup>, Peng Liu<sup>b1</sup>, Shaoyan Xin<sup>c</sup>, Zongbao Wang<sup>d</sup>, Jun Li<sup>e\*</sup><sup>a</sup>Department of Neurosurgery, The Affiliated Hospital of Hebei University, Baoding, Hebei 071000, China<sup>b</sup>Department of Neurosurgery, The First Affiliated Hospital of Gannan Medical College, Ganzhou, Jiangxi 341000, China<sup>c</sup>The Second Department of Cerebral Surgery, Hospital of Traditional Chinese Medicine of Zhangqiu District, Jinan, Shandong 250200, China<sup>d</sup>Department of Neurosurgery, Binzhou Central Hospital, Binzhou, Shandong 251700, China<sup>e</sup>Department of Neurosurgery, The Affiliated Xuzhou Hospital of Medical college, Southeast University, Xuzhou, Jiangsu 221009, China.

\*Correspondence to. Jun Li, Department of Neurosurgery, The Affiliated Xuzhou Hospital of Medical College of Southeast University, 199 Jiefang Southern Road, Xuzhou, Jiangsu 221009, China. Tel: +86-18952170010, Fax: +86-516-83956012. E-mail: lijundoc@163.com

**Abstract**

Nrf2 is presented in dendritic cells (DCs) and contributes to the maintenance of redox homeostasis. However, the expression pattern and function of Nrf2 in the maturation of DCs in the glioma-infiltrated microenvironment remain unrevealed. Our study aims to investigate the roles of Nrf2 in glioma cell-tamed DCs and their impact on the downstream T cell proliferation and cytotoxicity to glioma cells. It was showed that the inducible maturation of DCs was significantly suppressed after stimulation with tumor-conditioned medium (TCM) prepared from glioma cells (LN-18 and U118MG), as suggested by the decreased CD80, CD86 and IL-12 p70 expression and higher levels of IL-10 than the normal astrocyte medium treated DCs. Moreover, the TCM-exposed

---

<sup>1</sup> They contributed equally to this work

Download English Version:

<https://daneshyari.com/en/article/8451947>

Download Persian Version:

<https://daneshyari.com/article/8451947>

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