

Accepted Manuscript

Multiple myeloma cells adapted to long-exposure of hypoxia exhibit stem cell characters with TGF- β /Smad pathway activation

Yoko Nakagawa, Eishi Ashihara, Hisayuki Yao, Asumi Yokota, Yuki Toda, Yasuo Miura, Susumu Nakata, Hideyo Hirai, Taira Maekawa



PII: S0006-291X(18)30040-8

DOI: [10.1016/j.bbrc.2018.01.034](https://doi.org/10.1016/j.bbrc.2018.01.034)

Reference: YBBRC 39207

To appear in: *Biochemical and Biophysical Research Communications*

Received Date: 26 December 2017

Accepted Date: 4 January 2018

Please cite this article as: Y. Nakagawa, E. Ashihara, H. Yao, A. Yokota, Y. Toda, Y. Miura, S. Nakata, H. Hirai, T. Maekawa, Multiple myeloma cells adapted to long-exposure of hypoxia exhibit stem cell characters with TGF- β /Smad pathway activation, *Biochemical and Biophysical Research Communications* (2018), doi: 10.1016/j.bbrc.2018.01.034.

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.

Multiple myeloma cells adapted to long-exposure of hypoxia exhibit stem cell characters with TGF- β /Smad pathway activation

Yoko Nakagawa^{a,1}, Eishi Ashihara^{a,b,*,1}, Hisayuki Yao^a, Asumi Yokota^a, Yuki Toda^b, Yasuo Miura^a, Susumu Nakata^c, Hideyo Hirai^a, and Taira Maekawa^a

^aDepartment of Transfusion Medicine and Cell Therapy, Kyoto University Hospital, Kyoto, Japan:

^bDepartment of Clinical and Translational Physiology, Kyoto Pharmaceutical University, Kyoto, Japan:

^cDepartment of Clinical Oncology, Kyoto Pharmaceutical University, Kyoto, Japan

¹These authors contributed equally.

*Corresponding author

Eishi Ashihara, MD, PhD.

Address: 5 Nakauchi, Yamashina-ku, Kyoto, 607-8414, Japan

e-mail: ash@mb.kyoto-phu.ac.jp

Tel: +81-75-595-4705

Fax: +81-75-595-4796

Word counts of manuscript text (Title Page, Abstract, Keywords, Introduction, Materials and Methods, Results, Discussion, Acknowledgments, Conflict of Interest, References, Figure legends, and Table legend): 4,464 (\leq 4,600)

Abstract: 172

Number of figures: 4 (\leq 4)

Number of tables: 1

References: 27

Number of supplemental data items: 1(supplemental figure with legend)

Download English Version:

<https://daneshyari.com/en/article/8294805>

Download Persian Version:

<https://daneshyari.com/article/8294805>

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