

Accepted Manuscript

Title: Regulation of the TGF- β pathway by deubiquitinases in cancer

Author: Sijia Liu Miriam de Boeck Hans van Dam Peter ten Dijke



PII: S1357-2725(16)30106-6
DOI: <http://dx.doi.org/doi:10.1016/j.biocel.2016.05.001>
Reference: BC 4846

To appear in: *The International Journal of Biochemistry & Cell Biology*

Received date: 11-2-2016
Revised date: 2-5-2016
Accepted date: 3-5-2016

Please cite this article as: Liu, Sijia., de Boeck, Miriam., van Dam, Hans., & Dijke, Peter ten., Regulation of the TGF- β pathway by deubiquitinases in cancer. *International Journal of Biochemistry and Cell Biology* <http://dx.doi.org/10.1016/j.biocel.2016.05.001>

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Regulation of the TGF- β pathway by deubiquitinases in cancer

Sijia Liu¹, Miriam de Boeck¹, Hans van Dam¹, Peter ten Dijke^{1, 2}

¹Department of Molecular Cell Biology and Cancer Genomics Centre Netherlands, Leiden University Medical Centre, Leiden, The Netherlands;

²Ludwig Institute for Cancer Research, Science for Life Laboratory, Uppsala University, Box 595, 75124, Uppsala, Sweden

Corresponding author at: Department of Molecular Cell Biology and Cancer Genomics Centre Netherlands, Leiden University Medical Centre, Leiden, Postbus 9600, 2300RC, Leiden, The Netherlands. Tel: +31 71 5269271;

E-mail address: p.ten_dijke@lumc.nl (Peter ten Dijke).

Abstract

The transforming growth factor - β (TGF- β) pathway regulates diverse cellular processes. It signals via serine/threonine kinase receptors and intracellular Smad and non-Smad effector proteins. In cancer cells, aberrant TGF- β signalling can lead to loss of growth inhibition and an increase in invasion, epithelial-to-mesenchymal transition (EMT) and metastasis. Therapeutic targeting of the pro-oncogenic TGF- β responses is currently being explored as a potential therapy against certain invasive and metastatic cancer types. The ubiquitin post-translational regulation system is emerging as a key regulatory mechanism for the control of TGF- β pathway

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