Author's Accepted Manuscript

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PII: S0014-4827(18)30221-0
DOI: https://doi.org/10.1016/j.yexcr.2018.04.010
Reference: YEXCR11002

To appear in: *Experimental Cell Research*

Received date: 18 February 2018
Revised date: 9 April 2018
Accepted date: 10 April 2018

Cite this article as: Yu-Hui Li, Ming Zhong, Hong-Liang Zang and Xiao-Feng Tian, The E3 ligase for metastasis associated 1 protein, TRIM25, is targeted by microRNA-873 in hepatocellular carcinoma, *Experimental Cell Research,* https://doi.org/10.1016/j.yexcr.2018.04.010

The E3 ligase for metastasis associated 1 protein, TRIM25, is targeted by microRNA-873 in hepatocellular carcinoma

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Abstract

Tumor metastasis accounts for 90% of all cancer-related deaths. Epithelial to mesenchymal transition (EMT) considered to be centrally important in acquired resistance to chemotherapy and in progression of tumors to secondary organs. One of the important mediators of metastatic progression in hepatocellular carcinoma (HCC) is the metastasis associated protein 1 (MTA-1). We have earlier shown that in the context of HCC and normal liver cell lines, MTA-1 protein is actively stabilized in HCC cell lines and actively degraded in normal liver cells. We have also shown that TRIM25 is the E3 ligase that interacts with and degrades MTA-1 protein. The identity of the factor regulating expression of TRIM25 in normal liver cells and HCC is