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# p300 promotes proliferation, migration, and invasion via inducing epithelial-mesenchymal transition in non-small cell lung cancer cells

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## Abstract

**Background:** Histone acetyltransferase p300 is a crucial transcriptional coactivator and has been implicated as a poor prognostic factor in human cancers. However, little is known about the substantial functions and mechanisms of p300 in NSCLC proliferation and distant metastasis.

**Methods:** We constructed p300 down-regulated and up-regulated cell lines through RNAi and recombinant plasmid transfection. Cell Counting Kit-8 assays were used to test the cell proliferation and confirmed by colony formation assays. Wound healing assays and transwell chamber assays were used to test the migration and invasion ability. Based upon these results, we measured the epithelial markers and mesenchymal markers after regulating p300 expression to explore epithelial-mesenchymal transition as a potential mechanism of p300 promoting NSCLC metastasis.

**Results:** In NSCLC cells NCI-H1975 and NCI-H1993, down-regulation of p300 leads to inhibition of cell proliferation and colony formation. Cells with reduced p300 expression also demonstrate inhibited migration and invasion ability. Contrarily, up-regulation of p300 significantly enhanced the proliferation, colony formation, migration and invasion ability of NCI-H460. Importantly, further investigation shows that decreased p300 expression is associated with reduced expression of mesenchymal markers and increased expression of epithelial markers, while up-regulated p300 expression correlated with decreased expression of epithelial markers and increased expression of mesenchymal markers.

**Conclusions:** As a crucial tumor promoter, p300 promotes cell proliferation, migration, and invasion in NSCLC cells. Epithelial-mesenchymal transition is a potential mechanism of p300 promoting NSCLC metastasis.

**Keywords:** Epithelial-mesenchymal transition, Invasion, Non-small cell lung cancer, p300, Prognosis

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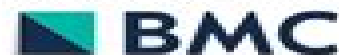
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# Epithelial Mesenchymal Transition Promotes Proliferation Non Small

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Poltronieri, Shahab Uddin**



## **Epithelial Mesenchymal Transition Promotes Proliferation Non Small:**

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chapter contributions from international leaders in the field      lncRNAs in Cancer Metastasis and Therapy Resistance Aamir Ahmad, Palmiro Poltronieri, Shahab Uddin, 2023-10-30 lncRNAs long non coding RNAs are the relatively longer more than 200 nucleotides long subtypes of ncRNAs non coding RNAs i e the RNAs that do not code for any proteins However even without themselves being translated lncRNAs impact the cellular gene expressions and functions in ways that are just beginning to be explored The metastasis of human cancers as well as acquired resistance against the administered therapeutics are two major factors responsible for the cancer associated mortality      **The Role of ncRNAs (non-coding RNAs) in Regulating**

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Handbook of Animal Models and its Uses in Cancer Research Surajit Pathak,Antara Banerjee,Atil Bisgin,2023-01-31 This reference book compiles together different animal models in cancer research It provides knowledge and a better understanding of the advancement of the molecular and cellular mechanisms associated with the progression formation and clinical results of various types of cancer from the evidence collected from animal models utilized for cancer research It discusses animal models for screening anti cancer drugs and exploration of gene therapy It presents different methods used to construct cancer animal models and the progress of each animal model in tumor research The book also highlights the applications of genetic engineering including CRISP Cas9 in designing and developing animal models for cancer research Further it discusses strategies for modeling animals for investigating growth metastasis tumor associated inflammation and microenvironment cancer stem cells tumor heterogeneity and therapeutic resistance This book is s a valuable resource for basic and translational cancer researchers clinicians and health care      **Mechanisms of Melanoma Tumor Progression** Vladimir Spiegelman,Vijayasaradhi Setaluri,2022-02-21      *Methods and Applications: Computational Genomics* Guanglin Li,Tao Huang,Lei Wang,Yang Gao,2022-07-28

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