

Frixa et al. showed that the miR-128-3p, which is up-regulated in lung cancer tissues, has **Drosha** and **Dicer**, two key enzymes of MicroRNAs processing, as the main modulation targets leading to the widespread downregulation of MicroRNA expression. They observed that the MicroRNAs downregulation induced by miR-128-3p contributed to the tumorigenic properties of lung cancer cells. In particular miR-128-3p-mediated MicroRNAs downregulation contributed to aberrant SNAIL and ZEB1 expression thereby promoting the epithelial-to-mesenchymal transition (EMT) program. Drosha also resulted to be implicated in the control of migratory phenotype as its expression counteracted miR-128-3p functional effects. The study provides mechanistic insights into the function of miR-128-3p as a key regulator of the malignant phenotype of lung cancer cells. This also enforces the remarkable impact of Drosha and Dicer alteration in cancer, and in particular it highlights a role for Drosha in NSCLC cells migration ¹⁾.

¹⁾

Frixa T, Sacconi A, Cioce M, Roscilli G, Ferrara FF, Aurisicchio L, Pulito C, Telera S, Carosi MA, Muti P, Strano S, Donzelli S, Blandino G. MicroRNA-128-3p-mediated depletion of Drosha promotes lung cancer cell migration. *Carcinogenesis*. 2017 Dec 11. doi: 10.1093/carcin/bgx134. [Epub ahead of print] PubMed PMID: 29236960.

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Last update: **2024/06/07 02:49**

