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Exosomal non-coding RNAs in cholangiocarcinoma: Laboratory noise or hope?

Konstantinos Laschos, Dimitra Ioanna Lampropoulou, Gerasimos Aravantinos, Maria Piperis, Dimitrios Filippou, George Theodoropoulos, Maria Gazouli

Abstract

Currently, extracellular vesicles and more particularly exosomes have gained a lot of research interest due to their unique roles in several biological processes. Non-coding RNAs (microRNAs, long non-coding RNAs and circular RNAs) represent a class of functional RNA with distinct regulatory roles in tumorigenesis and cancer

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After RNA content was discovered in exosomes, they emerged as a novel approach for the treatment and diagnosis of cancer. Long noncoding RNAs (lncRNA), a kind of specific RNA transcript, have been reported to function as tumor growth, metastasis, invasion, and prognosis by regulating the tumor microenvironment in exosomes.

Author: Zilong Wu, Zihao Xu, Boyao Yu, Jing t... Publish Year: 2020

[Multiple Roles of Exosomal Long Noncoding RNAs in Cancers](https://www.hindawi.com/journals/bmri/2019/1460572)

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Long noncoding RNAs (lncRNAs) are not transcriptional noise, as previously understood, but are currently considered to be multifunctional. Exosomes are derived from the internal multivesicular compartment and are extracellular vesicles (EVs) with diameters of 30–100 nm. Exosomes play significant roles in the intercellular exchange of information and material. Exosomal lncRNAs may be ...

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Research Article The Potential Diagnostic Value of Exosomal Long Noncoding RNAs in Solid Tumors: A Meta-Analysis and Systematic Review Zilong Wu ,1 Zihao Xu ,2 Boyao Yu,3 Jingtao Zhang,4 and Bentong Yu 4 1The First Clinical Medical College, Nanchang University, Nanchang, Jiangxi, China 2School of Public Health, Nanchang University, Nanchang, Jiangxi, China 3Xiangya School of ...

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