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Observational Study

Diagnostic value of four serum exosome miRNAs panel for the detection of colorectal cancer

Han L *et al.* Serum exosome miRNAs panel in CRC

Lei Han, Wen-Jie Shi, Yi-Bin Xie, Zhi-Guo Zhang

Abstract

BACKGROUND

Early detection, early diagnosis and early treatment are currently accepted methods

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Background: Although there is a growing interest in developing circulating microRNA (miRNA) as noninvasive **diagnostic biomarkers for the detection** of high-risk colorectal adenomas and early-stage CRCs, but the comparative **diagnostic** significance of **serum** vs. exosomal **miRNAs** remains unexplored. Methods: Based upon published literature, we performed an initial discovery step by investigating the ...

Cited by: 70

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Serum microRNA panel as biomarkers for early diagnosis of ...

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After the selection and validation process via RT-qPCR, we identified a four-miRNA panel (miR-19a-3p, miR-223-3p, miR-92a-3p and miR-422a) with a high diagnostic accuracy of CAC. Even in the low-carcinoembryonic antigen level group, the diagnostic accuracy of this ...

Cited by: 118

Author: G Zheng, L Du, X Yang, X Zhang, L Wang...

Publish Year: 2014

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How are exosomes used to diagnose colorectal cancer? ▾

How are blood exosomes used to diagnose CRC? ▾

How are exosomes isolated from blood and urine? ▾

Feedback

Frontiers | Combination of Four Serum Exosomal MiRNAs as ...

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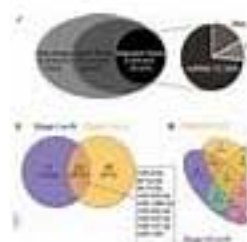
Introduction

Materials and Methods

Results

Discussion

C



Gastric cancer (GC) remains a leading cause of cancer-related mortality in the United States (Bray et al., 2018) and China (Chen et al., 2018). Because **GC** is mostly asymptomatic until it progresses to advanced stages, and lacking of an efficient biomarker with high sensitivity and specificity, the prognosis of GC patients remains poor. Hence, there is an urgent need to discover novel non-invasive biomarkers for the early **di**...

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Cited by: 12

Author: Shuli Tang, Shuli Tang, Jianan Cheng, Jiana...

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Diagnostic Potential of Cell-Free and Exosomal MicroRNAs ...

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How are exosomal miRNAs used to diagnose cancer? ▾

How are exosomes used to diagnose colorectal cancer? ▾

How are blood exosomes used to diagnose CRC? ▾

How are exosomes used in liquid biopsy research? ▾