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Sep 18, 2015 · Recent studies have shown that circulating microRNAs are a potential biomarker in various types of malignancies. The aim of this **study** was to investigate the feasibility of using serum exosomal microRNAs as **novel serological biomarkers** for **hepatocellular carcinoma (HCC)** in patients with **chronic hepatitis B (CHB)**.

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Author: Won Sohn, Jonghwa Kim, So Hee Kang, ...

Publish Year: 2015

Exosomal microRNA in serum is a novel biomarker of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4506387>

Jul 14, 2015 · Our findings indicate that **serum exosomal miR-19a** could be a **potential biomarker to predict recurrence** of CRC. In this **study**, analysis of **serum exosomal miRNA expression** profiles revealed that six **serum exosomal miRNAs** were regulated **concordant** with CRC progression.

Cited by: 247

Author: T Matsumura, K Sugimachi, H Iinuma, Y T...

Publish Year: 2015

Exosomes: Novel Biomarkers for Clinical Diagnosis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4322857>

Jan 27, 2015 · Recent **studies** have shown that **exosomal miRNAs** are protected from RNase-dependent degradation and thus can be stably detected in **circulating plasma** and **serum** [20, 54, 72], making them “**ideal**” **biomarkers** for **clinical diagnostic** applications. **Exosomal miRNAs** have been most frequently exploited as **biomarkers** for **cancer diagnosis**.

Cited by: 250

Author: Jin Lin, Jing Li, Bo Huang, Jing Liu, Xin Ch...

Publish Year: 2015

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[Extracellular microRNA: a new source of biomarkers](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3199035)

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Dec 01, 2011 · Recent **studies** have reported significant levels of miRNAs in **serum** and other body fluids, raising the possibility that **circulating** miRNAs could serve as useful clinical biomarkers. Here, we provide a brief overview of miRNA biogenesis and function, the identification and potential roles of **circulating extracellular** miRNAs, and the prospective ...

Cited by: 605

Author: Alton Etheridge, Inyoul Lee, Leroy Hoo...

Publish Year: 2011

[Characterization of serum small extracellular vesicles and ...](https://www.nature.com/articles/s41598-020-61098-9)

<https://www.nature.com/articles/s41598-020-61098-9>

Mar 06, 2020 · **Serum small extracellular vesicles** (sEVs) have recently drawn considerable interest because of the diagnostic and therapeutic potential of their miRNAs content. However, the characteristics of ...

Author: Fengbo Zhao, Li Cheng, Qian Shao,...

Publish Year: 2020

[Extracellular vesicle microRNA quantification from plasma ...](https://www.nature.com/articles/s42003-019-0435-1)

<https://www.nature.com/articles/s42003-019-0435-1>

May 20, 2019 · It is notable, however, that the **upregulation of miR-21** for liver tissue (Fig. 5a) is only ~3 times, while it is close to 1000 for **EVs in plasma** measured by ...

Cited by: 5

Author: Zeinab Ramshani, Chenguang Zhang, ...

Publish Year: 2019

[Cellular senescence contributes to age-dependent changes ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7059145)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7059145>

Jan 21, 2020 · **Circulating plasma vesicles** interact with a number of cell types including cells in the bone marrow, liver, and spleen. Although the exact physiological role of **plasma** EVs is poorly understood, one possible mode of action is that the continuous interaction with recipient cells influences cellular function.

Author: Faisal J. Alibhai, Fievel Lim, Azadeh...

Publish Year: 2020

6 **Name of Journal:** *World Journal of Gastroenterology*

Manuscript NO: 53946

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Serum is preferable to plasma for circulating small extracellular vesicle microRNA biomarker discovery studies

Chiam K *et al.* Circulating sEV miRNA biomarker

Karen Chiam, George C Mayne, **1** Tingting Wang, David I Watson, Tanya S Irvine, Tim Bright, Lorelle T Smith, Imogen A Ball, Joanne M Bowen, Dorothy M Keefe, Sarah K Thompson, Damian J Hussey

Abstract

BACKGROUND

Circulating microRNAs (miRNAs) are potential biomarkers for many diseases. However, they can originate from non-disease specific sources, such as blood cells, and compromise the investigations for miRNA biomarkers. While small extracellular vesicles (sEVs) have been suggested to provide a purer source of circulating

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