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Liquid biopsy is a **non-invasive approach for gastrointestinal cancer detection**. Liquid biopsy detects the circulating tumor cells, DNA, RNA and extracellular vesicles in blood and body fluids. Liquid biopsy assists in early screening, treatment selection and prognosis prediction of cancers.

Author: Chenxi Wu, Jiayin Zhang, Haibo Li, Wenrong Xu, Xu Zhang

Cited by: 1

Publish Year: 2020

[The potential of liquid biopsies in gastrointestinal cancer](https://www.sciencedirect.com/science/article/pii/S0009912020302733)
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Liquid biopsy

A liquid biopsy, also known as fluid biopsy or fluid phase biopsy, is the sampling and analysis of non-solid biological tissue, primarily blood. Like traditional biopsy this type of technique is mainly used as a diagnostic and monitoring tool for diseases such as cancer, with the added benefit of being largely non-invasive. Therefore, it can also be done more frequently which can better track tumors and mutations over a duration of time. It may also be used to validate the efficiency of a cancer treatment drug by taking multiple liquid biopsy samples in the span of a few weeks. The technology may also prove beneficial for patients after treatment to monitor relapse.

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Peripherally collected blood-based liquid biopsies **enrich and analyze circulating tumor cells and/or somatic genomic material**, including circulating tumor DNA along with various subclasses of RNA. Such assays have the potential to impact clinical practice at multiple stages of management in gastrointestinal cancers.

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The potential of liquid biopsies in gastrointestinal cancer
https://pubmed.ncbi.nlm.nih.gov/32540214

Background: Liquid biopsy is a novel approach for cancer diagnosis, the value of which in human gastrointestinal (GI) cancer has been confirmed by the previous studies. This article summarized the recent advances in liquid biopsy with a focus on novel technologies and the use of it in the screening, monitoring, and treatment of human GI cancer.

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Publish Year: 2020

Author: Chenxi Wu, Jiayin Zhang, Haibo Li, Wenr...

Liquid Biopsy in Gastrointestinal Cancers

Liquid biopsy

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Data from: Wikipedia

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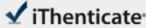
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Use of liquid biopsies in gastrointestinal cancers

Liquid biopsy in cancer




Hussein Khachfe




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Use of liquid biopsies in gastrointestinal cancers



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Several clinical applications of liquid **biopsies** have been examined in gastrointestinal cancers, ranging from tools in early disease detection to use as **prognostic or predictive biomarkers or monitoring of disease** (Fig. 3). Clinical use is currently limited by technical aspects of detection and the disease stage investigated.

Author: O Nordgård, O Nordgård, K Tjensvoll, B Gilje, K Søreide, K Søreide, K Søreide

Cited by: 29

Publish Year: 2018

[Circulating tumour cells and DNA as liquid biopsies in ...](#)

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[The potential of liquid biopsies in gastrointestinal cancer](#)

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Author: Chenxi Wu, Jiayin Zhang, Haibo Li, Wenr...

Publish Year: 2020

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