

Detection of KRAS G12D in colorectal cancer stool by droplet digital PCR

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Keywords: KRAS; [colorectal cancer](#); plasma; [droplet digital PCR](#); circulating cell-free DNA

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[\[PDF\] Current and Emerging Applications of Droplet Digital PCR in Oncology](#)

<link.springer.com/content/pdf/10.1007%2Fs40291-017-0278-8.pdf>

applied in oncology and, particularly, in [colorectal cancer](#) .... CRC [colorectal cancer](#), ddPCR [droplet](#) ..... has recently [detected](#) the KRAS G12D mutation in [stool](#).

[Droplet digital PCR for quantification of ITGA6 in a stool mRNA ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5413784/>

28 Apr 2017 ... We found that ITGA6 and ITGA6A [detection](#) in [stools](#) of patients with [colorectal cancers](#) with ddPCR is comparable to that of qPCR using ...

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 35185

Manuscript Type: ORIGINAL ARTICLE

### *Basic Study*

Detection of *KRAS* G12D in colorectal cancer stool by droplet digital PCR

Susana Olmedillas-López, Dennis César Lévano-Linares, Carmen Laura Aúz Alexa Sánchez, Alejandro Villagrasa, Jaime Ruíz-Tovar, Mariano García-Arranz, Damián García

### Abstract

#### AIM

To assess *KRAS* G12D mutation detection in stool-derived DNA from colorectal cancer

(ddPCR)

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**Multiplex picodroplet digital PCR to detect KRAS mutations in circulating DNA from the plasma of colorectal cancer patients**

V Taly, D Pekin, L Benhaim, SK Kotsopoulos... - Clinical ... , 2013 - clinchem.aaccjnls.org

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[\[PDF\] gmo-qpcr-analysis.info](#)**Clinical relevance of KRAS-mutated subclones detected with picodroplet digital PCR in advanced colorectal cancer treated with anti-EGFR therapy**

P Laurent-Puig, D Pekin, C Normand... - Clinical cancer ... , 2014 - AACR

... the value of 1% to dichotomize the patients with no mutations detected by qPCR (n ... developing and applying new, highly sensitive procedures to detect low frequency KRAS alleles ... relevance of KRAS mutation detection in metastatic colorectal cancer treated by Cetuximab plus ...

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[\[PDF\] aacrjournals.org](#)[\[PDF\] Integrating liquid biopsies into the management of cancer](#)

G Siravegna, S Marsoni, S Siena... - Nature reviews Clinical ... , 2017 - cancer-id.eu

... For instance, in one study<sup>77</sup>, KRAS mutations in trDNA were detected in five of eight ... Reckamp and coworkers<sup>7</sup> reported the ability to detect mutations in exons 19, 20, and 21 of ... of 60 evaluable tissue samples as a reference, the sensitivity of EGFRmutation detection in urine ...

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[\[PDF\] cancer-id.eu](#)**Accessing genetic information with liquid biopsies**

X Cai, F Janku, Q Zhan, JB Fan - Trends in Genetics, 2015 - Elsevier

... In this small-scale 17 patient study, ctDNA was detected in 100% of patients with ... the conversion efficiency is currently between 10 and 50%, setting the absolute detection limit of ... analysis of rearranged ends (PARE) and digital karyotyping were developed to detect these genetic ...

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**A study of hypermethylated circulating tumor DNA as a universal colorectal cancer biomarker**

S Garrigou, G Perkins, F Garlan, C Normand... - Clinical ... , 2016 - clinchem.aaccjnls.org

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## Multiplex detection of KRAS mutations in colorectal cancer FFPE and ...

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Droplet digital PCR provides a simple and robust workflow to screen a large .... mutation assays for one of seven individual KRAS mutations (G12D, G12V, .... of ITGA6 in a stool mRNA assay for the detection of colorectal cancers.

## Clinical Relevance of KRAS-Mutated Subclones Detected with ...

[clincancerres.aacrjournals.org/content/21/5/1087](http://clincancerres.aacrjournals.org/content/21/5/1087) - 翻译此页

作者: P Laurent-Puig - 2015 - 被引用次数: 76 - 相关文章

2015年3月1日 - Colorectal cancer is the third most common cancer worldwide with more than ...

Picodroplet digital PCR (dPCR) has recently emerged as a highly sensitive ... droplets), and sensitivity is limited only by the number of molecules that can .... G12D)-mutated clone (0.26%), which was not detected in the frozen ...

## Multiplex Picodroplet Digital PCR to Detect KRAS ... - Clinical Chemistry

[clinchem.aaccjnl.org/content/59/12/1722](http://clinchem.aaccjnl.org/content/59/12/1722) - 翻译此页

作者: V Taly - 2013 - 被引用次数: 203 - 相关文章

BACKGROUND: Multiplex digital PCR (dPCR) enables noninvasive and sensitive ... oncogene from plasma samples of patients with metastatic colorectal cancer. ... that can be detected in blood, as well as in other body fluids, such as lymph, stool. ... The 4-plex panel revealed the presence of G12D