

9

Name of Journal: *World Journal of Gastrointestinal Oncology*

ESPS Manuscript NO: 27814

Manuscript Type: Minireviews

Role of circulating free DNA in colorectal cancer

Alexios Matikas, Alexandra Voutsina, Maria Trypaki, Vassilis Georgoulas

Abstract

The gradual elucidation of the underlying biology of colorectal cancer has provided new insights and therapeutic options for patients with metastatic disease which are selected according to predictive biomarkers. This precision medicine paradigm, however, is incomplete since not all eligible patients respond to these agents and prognostic stratification is largely based on clinicopathologic variants. Importantly, no robust data exist to help properly select patients with localized disease at high risk for recurrence and most likely to benefit from adjuvant chemotherapy. There is a rapidly expanding body of literature regarding the role of the qualitative and quantitative analysis of circulating free DNA in various neoplasms, which consistently outperforms traditional tumor markers both as a predictive and as a prognostic marker. Several lines of evidence suggest that circulating free DNA may exhibit a complementary role to existing modalities for the early diagnosis of colorectal cancer, the selection of patients for adjuvant chemotherapy, for the follow-up of treated patients, for the selection of treatment for advanced disease and the assessment of response and for determining the prognosis of patients. These data, which are reviewed here, illustrate the important role that circulating biomarkers may soon have at the daily clinical practice.

Match Overview

1	Crossref 94 words &NA; "15th World Conference on Lung Cancer", Journal of Thoracic Oncology, 2013.	2%
2	Internet 40 words crawled on 23-Mar-2016 eurheartj.oxfordjournals.org	1%
3	Internet 34 words crawled on 25-Nov-2015 www.science.gov	1%
4	Internet 20 words crawled on 30-Apr-2016 spandidos-publications.com	1%
5	Crossref 15 words Valtorta, Emanuele, Sandra Misale, Andrea Sartore-Bianchi, Iris D. Nagtegaal, François Paraf, Calogero Lauricelli	<1%
6	Crossref 12 words Q.-W. Liu, "Identification of EGFR and KRAS mutations in Chinese patients with esophageal squamous cell cancer"	<1%
7	Publications 11 words "Reports from M.D. Anderson Cancer Center Describe Recent Advances in Clinical Trials and Studies (Ou", Clinical	<1%
8	Internet 11 words crawled on 11-Oct-2013 etd.lsu.edu	<1%
9	Internet 11 words crawled on 30-Aug-2015 pancreas.imedpub.com	<1%
	Crossref 8 words	<1%

[全部](#)[图片](#)[新闻](#)[视频](#)[更多 ▾](#)[搜索工具](#)

找到约 17,300,000 条结果（用时 0.50 秒）

Google 学术: Role of circulating free DNA in colorectal cancer

Cell-free nucleic acids as biomarkers in cancer patients - Schwarzenbach - 被引用次数: 802

Detection of circulating tumour DNA in the blood (... - Anker - 被引用次数: 431

Circulating free DNA in plasma or serum as biomarker ... - Gormally - 被引用次数: 306

Circulating Free DNA as Biomarker and Source for Mutation Detection ...

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) ▾ [翻译此页](#)

作者: KLG Spindler - 2015 - 被引用次数: 10 - [相关文章](#)

2015年4月13日 - Circulating cell-free DNA (cfDNA) in plasma has shown potential as biomarker in various cancers and could become an importance source for tumour ... this with four cohorts of metastatic colorectal cancer (mCRC) patients.

Circulating free DNA in a screening program for early colorectal ...

www.ncbi.nlm.nih.gov/pubmed/24852853 ▾ [翻译此页](#)

作者: F Perrone - 2014 - 被引用次数: 6 - [相关文章](#)

Circulating free DNA in a screening program for early colorectal cancer detection. ... role of cfDNA in the early detection of malignant and premalignant colorectal ...

Colorectal cancer diagnostics: biomarkers, cell-free DNA, circulating ...

www.ncbi.nlm.nih.gov/pubmed/23895128 ▾ [翻译此页](#)

作者: C Kin - 2013 - 被引用次数: 28 - [相关文章](#)

Reliable biomarkers are needed to guide treatment of colorectal cancer, as well as for ... The role of circulating tumor cells and cell-free DNA with regards to their ...

The Prognostic Value of Circulating Cell-Free DNA in Colorectal Cancer

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) - [翻译此页](#)

作者: S Basnet - 2016 - [相关文章](#)

2016年2月17日 - N. ...

[全部](#)[新闻](#)[图片](#)[视频](#)[更多 ▾](#)[搜索工具](#)

找到约 18,400,000 条结果 (用时 0.47 秒)

Google 学术: Role of circulating free DNA in colorectal cancer

Cell-free nucleic acids as biomarkers in cancer patients - Schwarzenbach - 被引用次数: 848

Detection of circulating tumour DNA in the blood (... - Anker - 被引用次数: 436

Circulating free DNA in plasma or serum as biomarker ... - Gormally - 被引用次数: 312

Circulating Free DNA as Biomarker and Source for Mutation Detection ...

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) ▾ [翻译此页](#)

作者: KLG Spindler - 2015 - 被引用次数: 15 - [相关文章](#)

2015年4月13日 - Circulating cell-free DNA (cfDNA) in plasma has shown potential as biomarker in various cancers and could become an importance source for tumour ... this with four cohorts of metastatic colorectal cancer (mCRC) patients.

The Prognostic Value of Circulating Cell-Free DNA in Colorectal Cancer

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) - [翻译此页](#)

作者: S Basnet - 2016 - [相关文章](#)

2016年6月4日 - However, its prognostic significance for patients with CRC remains ... Keywords: Plasma DNA, cell-free DNA, colorectal cancer, prognosis, ...

Circulating free DNA in a screening program for early colorectal ...

www.ncbi.nlm.nih.gov/pubmed/24852853 ▾ [翻译此页](#)

作者: F Perrone - 2014 - 被引用次数: 6 - [相关文章](#)

Circulating free DNA in a screening program for early colorectal cancer detection. ... role of cfDNA in the early detection of malignant and premalignant colorectal ...

Colorectal cancer diagnostics: biomarkers, cell-free DNA, circulating ...

www.ncbi.nlm.nih.gov/pubmed/23895128 ▾ [翻译此页](#)

作者: C Kin - 2013 - 被引用次数: 30 - [相关文章](#)

Reliable biomarkers are needed to guide treatment of colorectal cancer, as well as for ... The role of

[全部](#)[新闻](#)[图片](#)[视频](#)[更多 ▾](#)[搜索工具](#)

找到约 18,800,000 条结果 (用时 0.50 秒)

Google 学术: Role of circulating free DNA in colorectal cancer

Cell-free nucleic acids as biomarkers in cancer patients - Schwarzenbach - 被引用次数: 850

Detection of circulating tumour DNA in the blood (... - Anker - 被引用次数: 435

Circulating free DNA in plasma or serum as biomarker ... - Gormally - 被引用次数: 313

Circulating Free DNA as Biomarker and Source for Mutation Detection ...

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) ▾ 翻译此页

作者: KLG Spindler - 2015 - 被引用次数: 16 - 相关文章

2015年4月13日 - Circulating cell-free DNA (cfDNA) in plasma has shown potential as biomarker in various cancers and could become an importance source for tumour ... this with four cohorts of metastatic colorectal cancer (mCRC) patients.

The Prognostic Value of Circulating Cell-Free DNA in Colorectal Cancer

www.ncbi.nlm.nih.gov > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: S Basnet - 2016 - 相关文章

2016年6月4日 - However, its prognostic significance for patients with CRC remains ... Keywords:

Plasma DNA, cell-free DNA, colorectal cancer, prognosis, ...

Colorectal cancer diagnostics: biomarkers, cell-free DNA, circulating ...

www.ncbi.nlm.nih.gov/pubmed/23895128 ▾ 翻译此页

作者: C Kin - 2013 - 被引用次数: 30 - 相关文章

Reliable biomarkers are needed to guide treatment of colorectal cancer, as well as for ... The role of circulating tumor cells and cell-free DNA with regards to their ...

Circulating Cell-Free DNA from Colorectal Cancer Patients May ...