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SIMILAR**Name of Journal:** *World Journal of Respirology***Manuscript NO:** 34314**Manuscript Type:** Frontier**Is the determination of ctDNA a scientific "spy" that foresees cancer?****Joana Espiga de Macedo, Manuela Machado****Abstract**

Since 1948, circulating tumour DNA was first identified in human blood. Circulating tumour DNA is in fact DNA shed by tumour cells from all metastatic tumour locations throughout the whole body, and is thrown into the bloodstream and can then be isolated by a standard blood draw. Using this technique scientists can obtain a wide view of tumour heterogeneity, identify different mechanisms of drug resistance, what is its predominance and the clinical rational of precision cancer medicine become a part of our daily

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Keywords: Biomarkers, Breast cancer, Prognosis, Prediction, Clinical utility ... In addition we will also review the role of "liquid biopsies" in detecting circulating tumor ... Nowadays, many new tools in the field of molecular profiling have been ... years from the date of diagnosis, and stratifies patients in to three risk groups: low, ...

Tumour heterogeneity in the clinic - NCBI - National Institutes of Health

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作者: PL Bedard - 2013 - 被引用次数: 388 - 相关文章

Before metastases are clinically apparent, clonal heterogeneity can be identified ... Serial characterization of metastatic lesions through core needle biopsy could be ... For mutations in tumour-specific contexts for which there are no clinical ... Clinical-trial design frameworks for cancer diagnostics and therapeutics must be ...

Gene activity predicts progression of autoimmune ... - Science Daily

<https://www.sciencedaily.com/releases/2016/12/161222095847.htm> ▼ 翻译此页

2016年12月22日 - A new diagnostic tool for a rare and deadly autoimmune disease that affects ... The cause of systemic sclerosis is unknown, and there are no drugs approved by ... To find out if a patient is responding to treatment, clinicians use a test ... "Yet we were able to predict a year before the clinician which patients ...

Ultrasound and microbubbles flag malignant cancer in ... - Science Daily

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2017年4月4日 - A new way to diagnose cancer without resorting to surgery has now been demonstrated by scientists, raising the possibility of far fewer biopsies. ... For this first-in-humans clinical trial, women with either breast or ovarian ... "So, there's no new ultrasound equipment that needs to be built for that," he said.



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Tumour heterogeneity in the clinic - NCBI - NIH

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作者 : PL Bedard - 2013 - 被引用次数 : 401 - 相关文章

Subpopulations of **cancer** cells with unique genomes in the same patient may However, **ctDNA analysis** is in its infancy and is not yet routinely established in the KRAS wild-type state **predicts** survival and is associated to early radiological ... The clonal evolution of **tumor** cell populations. **Science**. 1976;194:23-28.

Cancer genomics and evolution | Clinical Gate

<https://clinicalgate.com/cancer-genomics-and-evolution/> ▼ 翻译此页

2017年4月12日 - **Cancer** genomics and evolution William P. D. Hendricks, PhD Aleksandar ... studies, and assessing the role of **cancer** evolution in **determining** its clinical management. treatment supported by **scientific** evidence for an individual patient. **detection of ctDNA** in presymptomatic individuals with **cancer**, ...

Prioritizing targets for precision cancer medicine

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2014年10月24日 - **cancer** clonal and sub-clonal structures and clinical successes and ... seq permits quantifying RNA expression, **determining** which ... examples being I-**SPY** 2 [NCT01042379] and SAFIR-01 in breast **ctDNA**. Biopsies of resistant sites. Next generation. Sequencing **Science** 2004; 304: 1497-1500. 6.

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