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Sep 10, 2015 · Over the past 10 years, "liquid biopsy" using cell-free DNA (cfDNA) has been attracting attention as a potential method to noninvasively identify specific mutations within a patient's cancer. 22 Several groups have reported that, using various technologies, mutant PIK3CA DNA can be reliably detected in plasma from patients with metastatic breast cancer. 23-26 In particular, the newer ...

Cited by: 53 Author: Takashi Takeshita, Yutaka Yamamoto, Mu...
Publish Year: 2015



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Feb 10, 2021 · In conclusion, **PIK3CA mutation** activates the PI3K/AKT/mTOR signaling pathway and inhibits apoptosis in TNBC cells, contributing to the resistance to chemotherapy in TNBC. More importantly, **PIK3CA mutation** is a **potential** monitoring **biomarker**, and patients with TNBC who carry this **mutation** may benefit from PI3K pathway inhibitors.

Author: Huayu Hu, Junyong Zhu, Yuting Zhong,... Publish Year: 2021

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[Prognostic role of PIK3CA mutations of cell-free DNA in ...](#)<https://onlinelibrary.wiley.com/doi/full/10.1111/cas.12813>

Fifteen (30.6%) patients experienced **breast cancer relapse**. A total of 12 patients died of **breast cancer**, which was regarded as events when analyzing BCSS. The presence of **PIK3CA mutations** of cfDNA were significant prognostic factors of both RFS ($P = 0.0072$) and BCSS ($P = 0.016$; Fig. 1).

Cited by: 57 Author: Takashi Takeshita, Yutaka Yamamoto, Mut...

Publish Year: 2015

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PIK3CA mutation in triple-negative breast cancer as a potential biomarker of early relapse

Valencia GA *et al.* PIK3CA mutation in triple-negative breast cancer

Guillermo Arturo Valencia, Patricia Rioja, Zaida Morante, Jhajaira M Araujo, Heberth Daniel Vallejos, Henry Guerra, Henry L Gomez

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PIK3CA mutation in non-metastatic triple-negative breast cancer a



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Sep 10, 2015 · PIK3CA is an oncogene that encodes the p110 α component of phosphatidylinositol 3-kinase (PI3K); it is the second most frequently mutated gene following the TP53 gene. In the clinical setting, PIK3CA mutations may have favorable prognostic value for hormone receptor-positive breast cancer patients and, during the past few years, PIK3CA mutations of cell-free DNA (cfDNA) have ...

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Author: Takashi Takeshita, Yutaka Yamamoto, M...

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Practical classification of triple-negative breast cancer ...

<https://www.nature.com/articles/s41523-020-00197-2>

Oct 16, 2020 · Lehmann, B. D. et al. PIK3CA mutations in androgen receptor-positive triple negative breast cancer confer sensitivity to the combination of PI3K and androgen receptor inhibitors. **Breast Cancer** ...

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Dec 18, 2015 · Triple negative breast cancers (TNBC) occur most frequently in young women and tend to have a more aggressive behavior. They are characterized by a relapse rate that rapidly rises in the first 2 years after diagnosis, peaks at 2–3 years post-diagnosis and declines during the next 5 years [1]. Currently, chemotherapy is the only systemic therapeutic option for this tumor type because hormonal ...