



26745-Review

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Name of Journal: World Journal of Clinical Oncology

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Oncogenic fingerprint of EGFR pathway and emerging EGFR blockade resistance in colorectal cancer

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Abstract

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Epidermal growth factor receptor (EGFR) has been an attractive target for treatment of epithelial cancers, including colorectal cancer (CRC). Evidence from clinical trials indicates that cetuximab and panitumumab (anti-EGFR monoclonal antibodies) have clinical activity in patients with metastatic CRC. The discovery of intrinsic EGFR blockade resistance in KRAS-mutant patients led to the restriction of anti-EGFR antibodies to KRAS wild-type patients by FDA (Food and Drug Administration) and EMA (European Medicine Agency). Studies have

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Google 学术: Oncogenic fingerprint of EGFR pathway and emerging EGFR blockade resistance in colorectal cancer

[EGFR and KRAS in colorectal cancer](#) - Markman - 被引用次数: 61

... transcription promotes acquired resistance to EGFR ... - Akhavan - 被引用次数: 35

... during EGFR Inhibitor Resistance in Mutant EGFR ... - Wykosky - 被引用次数: 7

Primary and acquired resistance to EGFR-targeted ... - NCBI

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

作者: SM Leto - 2014 - 被引用次数: 16 - [相关文章](#)

2014年5月10日 - Keywords: Colorectal cancer, Targeted therapy, Anti-EGFR antibodies, ... and will highlight emerging lines of investigation aimed at improving response and delay ... Notably, the KRAS and PI3K signaling cascades can also be activated by ... associated with acquired resistance to EGFR blockade [40, 41].

缺少字词: fingerprint

Mechanisms of tumor resistance to EGFR-targeted therapies

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

作者: EA Hopper-Borge - 2009 - 被引用次数: 49 - [相关文章](#)

Given the particular importance of the EGFR signaling pathway in cancer, we have ... EGFR/(v-erb-b) oncogene homolog 1 (ErbB1) and the ErbB protein family and emerging concepts of tumor resistance to pharmacologic signaling inhibitors, EGFR kinase domain mutations [112], as screening of 293 colorectal tumors ...

缺少字词: fingerprint

Mutant KRAS as a critical determinant of the therapeutic ...

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

作者: K Krishnakumar - 2015 - 被引用次数: 8 - [相关文章](#)

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EGFR and KRAS in colorectal cancer. - NCBI

www.ncbi.nlm.nih.gov/pubmed/20857619 ▾ [翻译此页](#)

作者: B Markman - 2010 - 被引用次数: 65 - [相关文章](#)

The **epidermal growth factor receptor (EGFR)** is recognized as an important player in ... in KRAS are recognized as a strong predictor of **resistance** to **EGFR**-targeted mAbs. ... in the complex **signaling pathways** related to **EGFR** may also contribute vital ... Growth Factor/**antagonists** & inhibitors; Receptor, Epidermal Growth ...

缺少字词: fingerprint emerging

Epidermal growth factor receptor pathway mutations and colorectal ...

www.ncbi.nlm.nih.gov/pubmed/21970483 ▾ [翻译此页](#)

作者: AH Grossmann - 2011 - 被引用次数: 19 - [相关文章](#)

Epidermal growth factor receptor pathway mutations and **colorectal cancer** therapy. ... predict **resistance** to anti-**epidermal growth factor receptor** (anti-EGFR) therapy. ... Prognosis; Proto-**Oncogene** Proteins/genetics; Receptor, Epidermal Growth Factor/**antagonists** & inhibitors; Receptor, Epidermal Growth Factor/genetics* ...

缺少字词: fingerprint emerging

Oncogenic K-Ras Signals through Epidermal Growth Factor Receptor ...

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

作者: KA Cengel - 2007 - 被引用次数: 65 - [相关文章](#)

Pancreatic and **colorectal** carcinomas frequently express **oncogenic**/mutant ... Taken together, these findings suggest that **EGFR**-activated H-Ras **signaling** is ... as a means to **block** Ras membrane localization and inhibit Ras-mediated signals in ... isoforms to radiation **resistance** in **cancer** cells that express **oncogenic** K-Ras ...

缺少字词: fingerprint emerging

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Epidermal growth factor receptor pathway mutations and colorectal ...

www.ncbi.nlm.nih.gov/pubmed/21970483 ▾ [翻译此页](#)

作者：AH Grossmann - 2011 - 被引用次数：19 - 相关文章

Epidermal growth factor receptor pathway mutations and colorectal cancer therapy. ... predict resistance to anti-epidermal growth factor receptor (anti-EGFR) therapy. ... Prognosis; Proto-Oncogene Proteins/genetics; Receptor, Epidermal Growth Factor/antagonists & inhibitors; Receptor, Epidermal Growth Factor/genetics* ...

缺少字词：fingerprint emerging

EGFR epidermal growth factor receptor [(human)] - NCBI

www.ncbi.nlm.nih.gov/gene/1956 ▾ [翻译此页](#)

3 天前 - EGFR is a cell surface protein that binds to epidermal growth factor. ... Mutations in this gene are associated with lung cancer. ... members of the EGFR signaling pathway emerging in tumor biopsies of patients treated acquired resistance of colorectal tumour cells to treatment with anti-EGFR mAb ICR62 ...

缺少字词：fingerprint

The role of the epidermal growth factor receptor in the mechanism and ...

www.ncbi.nlm.nih.gov/pubmed/21356164 ▾ [翻译此页](#)

作者：N Yarom - 2011 - 被引用次数：54 - 相关文章

The epidermal growth factor receptor is a member of the receptor tyrosine kinase family whose members play a critical role in oncogenesis. ... Due to its role in the progression of colon cancer, EGFR has become an attractive target ... Receptor, Epidermal Growth Factor/antagonists & inhibitors; Receptor, Epidermal Growth ...

缺少字词：fingerprint emerging resistance

Crosstalk of Oncogenic Signaling Pathways during Epithelial ... - NCBI

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