

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 42583

Manuscript Type: ORIGINAL ARTICLE

### Basic Study

Relationship between *KRAS* mutation status, expression of RAS pathway signaling molecules, and the clinicopathological features and prognosis of patients with colorectal cancer

Wan XB *et al.* *KRAS* gene and RAS pathway signaling molecules

Xiang-Bin Wan, Ai-Qin Wang, Jian Cao, Zhi-Chuang Dong, Ning Li, Sen Yang, Miao-Miao Sun, Zhi Li, Su-Xia Luo

### Abstract

#### BACKGROUND

The RAS/RAF/MEK/ERK and PI3K/AKT/mTOR signaling pathways all belong to mitogen-activated protein kinase (MAPK) signaling pathways. Mutations in any one of the upstream genes (such as the *RAS* gene or the *BRAF* gene) may be transmitted to the protein through transcription or translation, resulting in abnormal activation of the signaling pathway. This article studies the relationship between the *KRAS* gene mutation and the

### Match Overview

Match Number	Source	Words	Percentage
1	Internet crawled on 12-Dec-2014 <a href="http://www.ncbi.nlm.nih.gov">www.ncbi.nlm.nih.gov</a>	49 words	1%
2	Internet crawled on 10-Dec-2016 <a href="http://pdfs.semanticscholar.org">pdfs.semanticscholar.org</a>	27 words	1%
3	Internet crawled on 16-Mar-2017 <a href="http://www.wjgnet.com">www.wjgnet.com</a>	17 words	<1%
4	Internet crawled on 19-Jul-2015 <a href="http://searchoasis.ibict.br">searchoasis.ibict.br</a>	15 words	<1%
5	Crossref Ilan M. Ahearn. "Regulating the regulator: post-translational modification of RAS", <i>Nature Reviews Molecular Cell Biol</i>	15 words	<1%
6	Internet crawled on 20-Aug-2018 <a href="http://investors.amgen.com">investors.amgen.com</a>	14 words	<1%
7	Internet crawled on 02-Nov-2018 <a href="http://www.spandidos-publications.com">www.spandidos-publications.com</a>	13 words	<1%
8	Internet crawled on 25-Sep-2015 <a href="http://www.science.gov">www.science.gov</a>	13 words	<1%

[全部](#)[新闻](#)[图片](#)[购物](#)[地图](#)[更多](#)[设置](#)[工具](#)

找到约 66,800 条结果 (用时 0.67 秒)

### Association between clinicopathological features and survival in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5449162/> - 翻译此页

作者: XL Pang - 2017 - 被引用次数: 1 - 相关文章

2017年5月19日 - The ARMS experiment was conducted on the European **Molecular Genetics** ... In a total of 122 **patients with colon cancer**, the **KRAS mutation** rates in the left and right .... The **relationship between gene status** and the clinical and ..... affect the **expression of KRAS** gene in the **ras signaling pathway**,24 which ...

### Clinicopathologic characteristics and gene expression analyses of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4176451/> - 翻译此页

作者: VK Morris - 2014 - 被引用次数: 31 - 相关文章

2014年7月9日 - Keywords: **colorectal cancer**, **KRAS**, next-generation sequencing, gene **expression**, **survival** .... Overall **survival of patients** according to **RAS mutational status** and ... **pathways** that included **pathways** critical to **VEGF signaling**, tumor cell ... **expression** data from the TCGA provided **molecular** evidence to ...

### The association of clinicopathological features and survival in ...

[www.cancerjournal.net/article.asp?issn=0973-1482;year=2016;...](http://www.cancerjournal.net/article.asp?issn=0973-1482;year=2016;...) - 翻译此页

作者: T Akman - 2016 - 被引用次数: 1 - 相关文章

2016年4月13日 - Similarly, there was no **association between KRAS mutation status** and **survival** parameters. ... and **survival in colorectal cancer patients with kras mutation status**. ... **pathway** activation are commonly used in metastatic CRC **treatment**. ... **patients** , whose archival tumor tissue was sufficient for **molecular** ...

[PDF]

### Genotyping – Ras Mutation Analysis In Metastatic Colorectal Cancer ...

[https://www.excellusbcb.com/wps/.../genotyp\\_ras+tac+18.pdf?...](https://www.excellusbcb.com/wps/.../genotyp_ras+tac+18.pdf?...) ▼ 翻译此页

2018年6月13日 - **treatment** of metastatic Stage IV **colorectal cancer**. II. ... literature, **PIK3CA status**, **HER2 amplification**, and **PTEN expression mutation** ... **patients with KRAS mutations** will exhibit resistance to **EGFR inhibitors**. .... **BRAFV600E mutation** and its **association** with **clinicopathological features of colorectal cancer**: a.

[全部](#)[新闻](#)[图片](#)[购物](#)[地图](#)[更多](#)[设置](#)[工具](#)

找到约 69,000 条结果 (用时 0.58 秒)

### Association between clinicopathological features and survival in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5449162/> - 翻译此页

作者: XL Pang - 2017 - 被引用次数: 2 - 相关文章

2017年5月19日 - The ARMS experiment was conducted on the European **Molecular Genetics** ... In a total of 122 **patients** with **colon cancer**, the **KRAS mutation** rates in the left and right .... The **relationship between** gene **status** and the clinical and ..... affect the **expression** of **KRAS** gene in the **ras signaling pathway**,24 which ...

### Relationships between KRAS mutation status and baseline ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4346357/> - 翻译此页

作者: MH Rosenthal - 2014 - 被引用次数: 2 - 相关文章

Up to 50% of **patients** with **colorectal cancers** develop metastases, and the burden of disease ... of effective chemotherapy regimens as well as **molecular-** targeted therapeutic agents [3–6]. ... of the **EGFR signaling pathway**, including the **Ras**, **Raf**, and **MAPK pathway** [11]. .... Baseline **characteristics** by **KRAS mutation status** ...

### The association of clinicopathological features and survival in ...

[www.cancerjournal.net/article.asp?issn=0973-1482;year=2016;...](http://www.cancerjournal.net/article.asp?issn=0973-1482;year=2016;...) - 翻译此页

作者: T Akman - 2016 - 被引用次数: 3 - 相关文章

2016年4月13日 - Similarly, there was no **association between KRAS mutation status** and **survival** parameters. ... and **survival** in **colorectal cancer patients** with **kras mutation status**. ... **pathway** activation are commonly used in metastatic CRC **treatment**. ... **patients** , whose archival tumor tissue was sufficient for **molecular** ...

### MicroRNA Expression in KRAS- and BRAF-mutated Colorectal Cancers

[ar.iiarjournals.org/content/38/2/677.full](http://ar.iiarjournals.org/content/38/2/677.full) - 翻译此页

作者: IDAV LUNDBERG - 2018 - 被引用次数: 3 - 相关文章

**BRAF-mutated** tumors were found to express significantly higher levels of miR-31 as ... proteins located downstream of the EGFR in the **MAPK signalling pathway**. ... show **clinicopathological characteristics** distinct from **KRAS-mutated** CRCs. .... **Kras-mutation status** in relation to colorectal

找到约 69,000 条结果 (用时 0.58 秒)

### Association between clinicopathological features and survival in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5449162/> - 翻译此页

作者: XL Pang - 2017 - 被引用次数: 2 - 相关文章

2017年5月19日 - The ARMS experiment was conducted on the European **Molecular Genetics** ... In a total of 122 **patients** with **colon cancer**, the **KRAS mutation** rates in the left and right .... The **relationship between** gene **status** and the clinical and ..... affect the **expression** of **KRAS** gene in the **ras signaling pathway**,24 which ...

### Relationships between KRAS mutation status and baseline ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4346357/> - 翻译此页

作者: MH Rosenthal - 2014 - 被引用次数: 2 - 相关文章

Up to 50% of **patients** with **colorectal cancers** develop metastases, and the burden of disease ... of effective chemotherapy regimens as well as **molecular-** targeted therapeutic agents [3–6]. ... of the **EGFR signaling pathway**, including the **Ras**, **Raf**, and **MAPK pathway** [11]. .... Baseline **characteristics** by **KRAS mutation status** ...

### The association of clinicopathological features and survival in ...

[www.cancerjournal.net/article.asp?issn=0973-1482;year=2016;...](http://www.cancerjournal.net/article.asp?issn=0973-1482;year=2016;...) - 翻译此页

作者: T Akman - 2016 - 被引用次数: 3 - 相关文章

2016年4月13日 - Similarly, there was no **association between KRAS mutation status** and **survival** parameters. ... and **survival** in **colorectal cancer patients** with **kras mutation status**. ... **pathway** activation are commonly used in metastatic CRC **treatment**. ... **patients** , whose archival tumor tissue was sufficient for **molecular** ...

### MicroRNA Expression in KRAS- and BRAF-mutated Colorectal Cancers

[ar.iiarjournals.org/content/38/2/677.full](http://ar.iiarjournals.org/content/38/2/677.full) - 翻译此页

作者: IDAV LUNDBERG - 2018 - 被引用次数: 3 - 相关文章

**BRAF-mutated** tumors were found to express significantly higher levels of miR-31 as ... proteins located downstream of the **EGFR** in the **MAPK signalling pathway**. ... show **clinicopathological characteristics** distinct from **KRAS-mutated** CRCs. .... **Kras-mutation status** in relation to colorectal