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**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 60745

**Manuscript Type:** ORIGINAL ARTICLE

*Retrospective Study*

**Relationship between mismatch repair protein, *RAS*, *BRAF*, *PIK3CA* gene expression and clinicopathological characteristics in elderly colorectal cancer**

Fan JZ *et al.* Expression and clinicopathological characteristics in elderly CRC

Jun-Zhen Fan, Gao-Fei Wang, Xue-Bin Cheng, Zhou-Huan Dong, Xin Chen, Yu-Jiao Deng, Xin Song

## Abstract

### BACKGROUND

Elderly patients are still the main group of patients with colorectal cancer (CRC).

Mismatch repair (MMR) protein deletion is one of the causes of CRC. The *RAS*

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## Deficient mismatch repair and RAS mutation in colorectal ...

<https://peerj.com/articles/4341> ▼

Feb 05, 2018 · Objectives To investigate the frequency and prognostic role of deficient **mismatch repair** (dMMR) and **RAS** mutation in Chinese patients with **colorectal** carcinoma. Methods Clinical and pathological information from 813 patients were reviewed and recorded. **Expression of mismatch repair** proteins was tested by immunohistochemistry. Mutation analyses for **RAS gene** were performed by ...

Cited by: 5

Author: Xiangyan Zhang, Wenwen Ran, Jie Wu, H...

Publish Year: 2018

## Prevalence and characteristics of PIK3CA mutation in ...

<https://www.jcancer.org/v11p3827.htm> ▼

Abstract. Background: Chromosomal instability (CIN) and microsatellite instability (MSI) account for the major causes of **colorectal cancer** (CRC).As an important component of the CIN pathway, **PIK3CA** mutation is a negative prognostic factor in CRC. However, the **relationship between PIK3CA** mutation and **mismatch repair** (MMR) status has not been well clarified.

## Clinicopathologic characteristics of resectable colorectal ...

<https://europepmc.org/article/PMC/PMC7302659> ▼

Jun 01, 2020 · How to cite this article: Li J, Xu Q, Luo C, Chen L, Ying J. Clinicopathologic characteristics of resectable colorectal cancer with **mismatch repair** protein defects in Chinese population: **Retrospective** case series and literature review. Medicine. 2020;99:24(e20554).

Author: Jingjing Li, Qi Xu, Cong Luo, Lei Chen...

Publish Year: 2020

## Frontiers | Clinicopathological Characteristics and ...

<https://www.frontiersin.org/articles/10.3389/fonc.2020.00917> ▼

Background: **Colorectal** adenocarcinoma with mucinous component (AWMC) is a special entity of **colorectal cancer**. The study is aimed at analyzing the **clinicopathological characteristics**, mutation spectrum, and prognosis of AWMC and comparing it with classical adenocarcinoma (AC) in a Chinese cohort. Methods: One hundred eight AMWC and 204 AC patients were included.

Author: Jingci Chen, Liangrui Zhou, Jie Gao, T...

Publish Year: 2020

## Correlation between microsatellite instability and RAS ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6313205>



**Clinicopathological and protein characterization of BRAF ...**  
<https://onlinelibrary.wiley.com/doi/full/10.1002/ijc.25042>  
Nov 11, 2009 · Association of **BRAF** and K-**RAS** mutation and **clinicopathological** features . Evaluating the entire patient cohort, **BRAF** mutation was associated with right-sided tumor location (p < 0.001), a frequent number of high-grade tumors (p = 0.029) and with the absence of PTL inflammation at the invasive tumor front (p = 0.026) (Table 3).As these features are all commonly associated with MSI-H, ...  
**Cited by:** 270      **Author:** Inti Zlobec, Michel P. Bihl, Heike Schwarb, L...  
**Publish Year:** 2010

**Correlation between microsatellite instability and RAS ...**  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6313205>  
Keywords: stage III **colorectal cancer**, **RAS gene**, microsatellite instability, **mismatch repair protein**  
Introduction **Colorectal cancer** (CRC) is one of the most common malignant tumors of the digestive tract in the world, and it is seriously endangering the health of humans.  
**Cited by:** 2      **Author:** Wenbo Niu, Guiying Wang, Jun Feng, Zhen...  
**Publish Year:** 2018

**KRAS and BRAF mutations are rare and related to DNA ...**  
<https://www.nature.com/articles/bjc2013109>  
Mar 19, 2013 · The **relationship between** KRAS/**BRAF** mutation status, DNA **mismatch repair** (MMR) status, **clinicopathological** variables and overall survival ...  
**Cited by:** 72      **Author:** N C T van Grieken, T Aoyama, P A Chambers...  
**Publish Year:** 2013

**MicroRNA-31 expression in relation to BRAF mutation, CpG ...**  
<https://onlinelibrary.wiley.com/doi/full/10.1002/ijc.28920>  
Apr 20, 2014 · The serrated neoplasia pathway has attracted considerable attention as an alternative pathway of **colorectal cancer** (CRC) development, and serrated lesions exhibit unique **clinicopathological** or molecular features. 1-17 The CpG island methylator phenotype (CIMP) is a distinct form of epigenomic instability, 18-22 which causes most sporadic ...  
**Cited by:** 56      **Author:** Miki Ito, Kei Mitsushashi, Hisayoshi Igarashi,...  
**Publish Year:** 2014

**KRAS and BRAF gene mutations and DNA mismatch repair ...**  
<https://www.researchgate.net/publication/272097564...>  
To investigate the **expression of mismatch repair** proteins (MMR) in **colorectal cancer** (CRC) and to analyze the correlation **between** MMR and pathologic features of CRC, immunohistochemistry was used ...

**The heterogeneous clinical and pathological landscapes of ...**  
<https://cancercl.biomedcentral.com/articles/10.1186/s12935-020-1117-2> ▾  
Jan 29, 2020 · **Colorectal cancer** (CRC) is a complex and molecularly heterogeneous disease representing one of the most frequent causes of **cancer**-related death worldwide. About 8–15% of CRCs harbor a mutation in **BRAF gene**, a proto-oncogene involved in cell proliferation, differentiation and survival through the MAPK signaling cascade. The acquisition of **BRAF** mutation is an early event in ...

**Molecular Characterization of Endometrial Cancer: A ...**  
<https://www.researchgate.net/publication/224005467...>  
**Colorectal cancer** (CRC) that demonstrates microsatellite instability (MSI) is caused by either germline **mismatch repair** (MMR) **gene** mutations, or 'sporadic' somatic tumour MLH1 promoter methylation.

**Prevalence and characteristics of PIK3CA mutation in ...**  
<https://www.jcancer.org/v11p3827.htm> ▾  
Abstract. Background: Chromosomal instability (CIN) and microsatellite instability (MSI) account for the major causes of **colorectal cancer** (CRC).As an important component of the CIN pathway, **PIK3CA** mutation is a negative prognostic factor in CRC. However, the **relationship between** **PIK3CA** mutation and **mismatch repair** (MMR) status has not been well clarified.

**Frontiers | Clinicopathological Characteristics and ...**  
<https://www.frontiersin.org/articles/10.3389/fonc.2020.00917/full> ▾  
Background: **Colorectal** adenocarcinoma with mucinous component (AWMC) is a special entity of **colorectal cancer**. The study is aimed at analyzing the **clinicopathological characteristics**, mutation spectrum, and prognosis of AWMC and comparing it with classical adenocarcinoma (AC) in a Chinese cohort.Methods: One hundred eight AMWC and 204 AC patients were included.

**KRAS and PIK3CA bi-mutations predict a poor prognosis in ...**  
<https://www.sciencedirect.com/science/article/pii/S1936523320303661>  
Dec 01, 2020 · Study rationale. The coexistence of KRAS and **PIK3CA** mutations in cells implies potential synergistic hyperactivation of the **Ras**/MAPK and PI3K/Akt oncogenic pathways. Therefore, it is desirable to investigate the concomitant mutations of KRAS and **PIK3CA** in **colorectal cancer** (CRC) samples and whether the concomitant mutations are associated with a poor prognosis in CRC patients.



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## [Correlation between microsatellite instability and RAS ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6313205>

Keywords: stage III **colorectal cancer**, **RAS gene**, microsatellite instability, **mismatch repair protein**

Introduction **Colorectal cancer** (CRC) is one of the most common malignant tumors of the...

Cited by: 2

Author: Wenbo Niu, Guiying Wang, Jun Feng, Z...

Publish Year: 2018

## [Research Paper Prevalence and characteristics of PIK3CA ...](#)

<https://www.jcancer.org/v11p3827.pdf> ▾

Key words: **PIK3CA** mutation, MMR, **colorectal cancer**, **RAS/BRAF** mutations, next-generation

sequencing Introduction **Colorectal cancer** (CRC) is one of the most common malignancies in th...

## [PIK3CA Somatic Mutation Status in Relation to Patient and ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4490937>

Results. **PIK3CA** mutations were detected in 42 cases (11%), with a similar prevalence across racial/ethnic groups. Individuals with **PIK3CA**-mutated CRC were significantly more likely than...

Cited by: 12

Author: Amanda I. Phipps, Amanda I. Phipps, D...

Publish Year: 2015

## [Prevalence and characteristics of PIK3CA mutation in ...](#)

<https://www.jcancer.org/v11p3827.htm> ▾

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## [Clinicopathological and protein characterization of BRAF ...](#)

<https://onlinelibrary.wiley.com/doi/full/10.1002/ijc.25042>

Nov 11, 2009 · Association of **BRAF** and K-**RAS** mutation and clinicopathological features .

Evaluating the entire patient cohort, **BRAF** mutation was associated with right-sided tumor...

Cited by: 271

Author: Inti Zlobec, Michel P. Bihl, Heike Schwa...

Publish Year: 2010

## [Gene mutation profiling in Chinese colorectal cancer ...](#)

<https://onlinelibrary.wiley.com/doi/full/10.1002/cam4.2727>

Besides, **RAS**, **BRAF** and **PIK3CA** mutations are more frequently seen in RCRC. 16, 17 In our study,

**gene** mutation is also more commonly seen in RCRC, and the proportion of KRAS and **PIK3CA**...

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