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2017年1月6日 - Microsatellite Instability in **Sporadic** Colorectal. Cancer ... all patients with **stage II** CRC because patients with MSI-H (high-frequency MSI) tumour may have ... non-polyposis **colorectal cancer** (HNPCC, Lynch syndrome; 3%) [11–13]. .... IHC assessment of **MLH1** and **MSH2** protein expression has also.

### [DNA mismatch repair and adjuvant chemotherapy in sporadic colon ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3767984/> [▼ 翻译此页](#)

作者: FA Sinicrope - 2010 - 被引用次数: 52 - [相关文章](#)

Abstract. Defective DNA mismatch repair (MMR) occurs in approximately 15% of **sporadic colorectal cancers** (CRCs). ... Given these data, it can be recommended that MMR status be determined and used to inform **clinical** decision-making for adjuvant chemotherapy in patients with **stage II colon cancer**.

### [Prognostic and predictive impact of DNA mismatch repair in the ... - NCBI](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3770934/> [▼ 翻译此页](#)

作者: FA Sinicrope - 2011 - 被引用次数: 15 - [相关文章](#)

MMR deficient **tumors** include those with germline mutations in MMR genes that produce Lynch syndrome and **sporadic colon cancers** with epigenetic inactivation of the **MLH1** gene. ... **Clinical** utility in **stage III colon cancer** patients awaits study of the predictive impact of the standard 5-FU plus oxaliplatin regimen.

### [Prediction of biological behavior and prognosis of colorectal cancer p ...](#)

<https://www.dovepress.com/prediction-of-biological-behavior-and-prognosis...> [▼ 翻译此页](#)

2016年12月8日 - The **clinical** predictors for MSI and its survival **relevance** for the Chinese ... Mismatch repair (MMR) proteins (**MSH2**, **MSH6**, **PMS1**, and **MLH1**) expression was ... repair, **sporadic colorectal cancer**, clinicopathological features, prognosis. ... predicts **clinical** outcome in **stage II** and **III colorectal cancer** patients.

### [Low Level of Microsatellite Instability Correlates with Poor Clinical ...](#)

<https://www.hindawi.com/journals/jo/2016/2196703/> [▼ 翻译此页](#)

作者: EN Mojarad - 2016 - 被引用次数: 23 - [相关文章](#)

2016年5月19日 - <sup>3</sup>AJA Cancer Research Center (ACRC), AJA University of **Medical Sciences**, Tehran.

1 **Clinical significance of *MLH1/MSH2* for stage II and III sporadic colorectal cancer**

2 Shui-Ming Wang, Bin Jiang, You-Ping Deng, Shu-Liang Huang, Ming-Zhi Fang, Yu  
3 Wang

4 **BACKGROUND**

5 **8** The development of colorectal cancer (CRC) is a complicated multistep process that  
6 involves an accumulation of mutations in tumor suppressor genes and oncogenes. In  
7 the process of DNA replication, base mismatch often occurs due to various factors  
8 leading to abnormal expression of mismatch repair gene (MMR) that *MLH1* and *MSH2*  
9 are most important in it. Recently abundant of studies indicate *MLH1/MSH2*  
10 phenotype is associated with CRC. We want to elucidate the role of *MLH1/MSH2* in  
11 the prediction and prognosis of CRC through long-term clinical observation.

13 **AIM**

14 **21** To evaluate the prognostic and predictive significance of *MLH1/MSH2* in patients with  
15 stage II-III CRC using immunohistochemical analysis and GeneScan.

17 **METHODS**

18 Specimens from 681 patients with CRC were tested (395 stage II and 286 stage III, 387  
19 males and 294 females) which underwent curative surgical resection from 2013 to 2016

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## Microsatellite Instability in Colorectal Cancer: Overview ...

<https://www.hematologyandoncology.net/archives/november-2018/microsatellite...> ▾

**MSI Testing in Colorectal Cancer.** MSI is currently detected with 2 different approaches: immunohistochemistry (IHC)- and polymerase chain reaction (PCR)-based methods. 3,19 IHC looks at **MLH1, MSH2, MSH6, and PMS2** staining on tumor samples to identify the loss of protein expression that characterizes **MMR-D** as a surrogate for **MSI**. **Molecular DNA** testing through a PCR-based approach ...

## Activity (transcription) of the genes for MLH1, MSH2 and ...

<https://www.nature.com/articles/6601823>

Apr 20, 2004 - Activity (transcription) of the genes for **MLH1, MSH2** and **p53** in **sporadic colorectal tumours** with micro-satellite instability Skip to main content Thank you for visiting nature.com.

Cited by: 7

Author: S I H Tou, E R Drye, P B Boulos, S J Holl...

Publish Year: 2004

## Clinical Relevance of Microsatellite Instability in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2903331>

Jul 10, 2010 - Microsatellite instability (MSI) is a clonal change in the number of repeated DNA nucleotide units in microsatellites. It arises in tumors with deficient mismatch repair due to the inactivation of one of the four mismatch repair genes: **MSH2, MLH1, MSH6, and PMS2**. In order to determine the MSI status of a tumor, microdissection and polymerase chain reaction-based detection strategies are required.

Cited by: 252

Author: Albert de la Chapelle, Heather Hampel

Publish Year: 2010

## Clinical significance of mismatch repair gene expression ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4186363>

In conclusion, the immunohistochemistry **PV-9000 two-step method** can be feasibly used to detect the **MMRP** expression level in **sporadic colorectal cancer**. **MMRP** expression is closely associated with tumor location, histological type, differentiation degree, BMI and a family history of cancer, respectively.

Cited by: 4

Author: Zhenqiang Sun, Xianbo Yu, Haijiang Wan...

Publish Year: 2014