

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) › [pmc](#) › [articles](#) › [PMC2691665](#) ▼

## MUTYH Associated Polyposis (MAP) - NCBI

Jump to **THE SIGNIFICANCE OF THE MUTYH GENE IN RELATION TO ...** - ... mutations in the **MUTYH** gene, ... being: **more than 1000 polyps** or ...  
by MLM Poulsen - 2008 - [Cited by 83](#) - [Related articles](#)  
[Abstract](#) · [INTRODUCTION](#) · [ALLELIC FREQUENCIES ...](#) · [FUNCTIONAL ...](#)

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) › [pmc](#) › [articles](#) › [PMC3410368](#) ▼

## MUTYH-associated polyposis (MAP), the syndrome ...

Aug 2, 2012 - Presently, due to the variability of clinical features in **MUTYH** mutation carriers ( Morak et al., 2010), the diagnostic criteria for MAP are **not** fully ...  
by T Venesio - 2012 - [Cited by 19](#) - [Related articles](#)

[my.clevelandclinic.org](http://my.clevelandclinic.org) › [health](#) › [diseases](#) › [17254-my...](#) ▼

## MUTYH-Associated Polyposis (MAP): Causes, Treatments

Nov 10, 2019 - What is **MUTYH-associated polyposis (MAP)**? **MUTYH-associated polyposis (MAP)** is a rare, hereditary (inherited) condition in which a person has numerous adenomatous **polyps** (abnormal tissue growths) in the colon and rectum.  
by MAPMAP Menu - [Related articles](#)

[www.uptodate.com](http://www.uptodate.com) › [contents](#) › [mutyh-associated-poly...](#) ▼

## MUTYH-associated polyposis - UpToDate

... Apr 2020. | This topic last updated: Sep 14, 2018. The content on the UpToDate website is **not** intended nor recommended as a substitute for medical advice, ...

[bmccancer.biomedcentral.com](http://bmccancer.biomedcentral.com) › [articles](#) ▼

Intussusception reveals MUTYH associated polyposis



国内版 国际版

MUTYH: Not just polyposis



Chat with Bing

Sign in



ALL

IMAGES

VIDEOS

Add Bing Firefox extension >

168,000 Results

Any time ▾

## MUTYH (or MYH)-Associated Polyposis | Cancer.Net

<https://www.cancer.net/cancer-types/mutyh-or-myh-associated-polyposis> ▾

**MUTYH (MYH)-associated polyposis (MAP)** is a hereditary condition. People with MAP tend to develop multiple **adenomatous colon polyps** during their lifetime and will have an increased risk of colorectal cancer if they are not monitored closely with colonoscopies.

## MUTYH-Associated Polyposis (MAP): Causes, Treatments

<https://my.clevelandclinic.org/health/diseases/17254-myh-associated-polyposis> ▾



What Is Map?

What Are The Cancer Risks ...

Are There Any Other Risks . >

**MYH is a gene involved in the repair of oxidative damage to the DNA.** Oxidation causes changes in the DNA molecule that in turn affect many genes, including some genes responsible for regulation of cellular growth (such as the APC and KRAS genes). People with problems in the MYH gene can develop lots of different types of polyps in the large intestine, including adenomas, sessile serrated polyps and hyperplastic polyps. Most individuals with MAP usually develop between 10-100 polyps, although t...

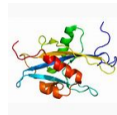
See more on [my.clevelandclinic.org](https://my.clevelandclinic.org)

## MUTYH-Associated Polyposis - GeneReviews® - NCBI ...

<https://www.ncbi.nlm.nih.gov/books/NBK107219>

Oct 04, 2012 · **MUTYH-associated polyposis (MAP)**, caused by biallelic pathogenic variants in **MUTYH**, is characterized by a greatly increased lifetime risk of colorectal cancer (CRC) (43% to almost 100% in the absence of timely surveillance). Although typically associated with ten to a few hundred colonic adenomatous polyps that are evident at a mean age of about 50 years, colonic cancer develops in ...

## MUTYH



MUTYH (mutY DNA glycosylase) is a human gene that encodes a DNA glycosylase, MUTYH glycosylase. It is involved in oxidative DNA damage repair and is part of the base excision repair pathway. The enzyme excises adenine bases from the DNA backbone at sites where adenine is inappropriately paired with guanine, cytosine, or 8-oxo-7,8-dihydroguanine, a common form of oxidative DNA damage.



Wikipedia

Data from: Wikipedia

[Suggest an edit](#)



**Name of Journal:** *World Journal of Clinical Oncology*

**Manuscript NO:** 54967

**Manuscript Type:** REVIEW

**MUTYH: Not just polyposis**

Curia MC *et al.* *MUTYH* in polyposis, cancer and other disorders

Maria Cristina Curia, Teresa Catalano, Gitana Maria Aceto

### Abstract

MUTYH is a <sup>11</sup>base excision repair enzyme, <sup>62</sup>plays a crucial role in the correction of DNA errors from guanine oxidation and then may be considered a cell protective factor. In human it is <sup>11</sup>an adenine DNA glycosylase that removes <sup>11</sup>adenine misincorporated in <sup>11</sup>7,8-dihydro-8-oxoguanine (8-oxoG) pairs, inducing <sup>11</sup>G:C to T:A transversions. MUTYH functionally cooperates with <sup>11</sup>OGG1 that eliminates 8-oxoG derived from excessive reactive oxygen species.

### Match Overview

1	Internet 135 words crawled on 09-Jan-2020 <a href="#">diposit.ub.edu</a>	1%
2	Internet 120 words crawled on 12-Dec-2017 <a href="#">www.jove.com</a>	1%
3	Crossref 120 words <a href="#">Amrita Singh, Navneet Singh, Digambar Behera, Siddhart h Sharma. "Genetic Investigation of Polymorphic OGG1 a</a>	1%
4	Internet 107 words crawled on 15-May-2020 <a href="#">insights.ovid.com</a>	1%
5	Internet 79 words crawled on 15-Mar-2020 <a href="#">www.mdpi.com</a>	1%
6	Crossref 74 words <a href="#">Sugako Oka. "DNA glycosylase encoded by MUTYH functions as a molecular switch for programmed cell death u...</a>	1%
7	Crossref 72 words <a href="#">Zhenming Cai, Wenwen Guo, Huimei Chen, Jing Tao, Lili Cao, Wei Sun, Yaping Wang. "Base excision repair gene</a>	1%
8	Internet 62 words crawled on 02-May-2016 <a href="#">www.ncbi.nlm.nih.gov</a>	1%