

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 62066

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Why MUC16 mutations lead to a better prognosis: A study based on the The Cancer Genome Atlas gastric cancer cohort

MUC16 mutations in GC prognosis

Abstract

BACKGROUND

MUC16, encoding cancer antigen 125 (CA-125), is a frequently mutated gene in gastric cancer. In addition, MUC16 mutations seem to result in a better prognosis in gastric cancer. However, the mechanisms that lead to a better prognosis by MUC16 mutations have not yet been clarified.

Match Overview

1	Internet 40 words crawled on 11-Mar-2020 www.aging-us.com	1%
2	Internet 32 words crawled on 16-Aug-2020 translational-medicine.biomedcentral.com	1%
3	Internet 25 words crawled on 11-Apr-2019 www.sicgen.pt	1%
4	Crossref Posted Content 18 words Duanrui Liu, Jingyu Zhu, Zongming Wang, Yusong Fang, Mingjie Yuan, Xiaoli Ma, Yanfei Jia, Yunshan Wang. "Lands	<1%
5	Crossref 17 words Zizhuo Wang, Huangbo Yuan, Jia Huang, Dianxing Hu, Xu Qin, Chaoyang Sun, Gang Chen, Beibei Wang. "Prognosti	<1%
6	Internet 14 words crawled on 26-Aug-2019 jamanetwork.com	<1%
7	Internet 12 words www.ncbi.nlm.nih.gov	<1%
8	Internet 12 words crawled on 24-Mar-2020 cancerbiomedcentral.com	<1%

ALL

IMAGES

VIDEOS

56,800 Results

Any time ▼

MUC4, MUC16, and TTN genes mutation correlated with ...

<https://onlinelibrary.wiley.com/doi/10.1002/ctm2.155>

Aug 22, 2020 · Previous studies reported that MUC16 mutation was associated with better prognosis and higher tumor mutation burden (TMB) in gastric cancer, while TTN mutation was associated with better response to immune checkpoint blockage in solid tumors, but the potential mechanisms were still unclear. 1, 2 Through the analysis in TCGA gastric adenocarcinoma ...

MUC4, MUC16, and TTN genes mutation correlated with ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/ctm2.155>

Aug 22, 2020 · Previous studies reported that **MUC16 mutation** was associated with **better prognosis** and higher tumor **mutation** burden (TMB) in **gastric cancer**, while TTN **mutation** was associated with **better** response to immune checkpoint blockage in solid tumors, but the potential mechanisms were still unclear. 1, 2 Through the analysis in **TCGA gastric** ...

Author: Yue Yang, Jieyun Zhang, Yanxing Ch... **Publish Year:** 2020

MUC16 | Cancer Genetics Web

www.cancerindex.org/geneweb/MUC16.htm ▼

Aug 30, 2019 · Of note, loss-of-function mutation in MUC16 gene was identified. Mutated MUC16 predicted a better prognosis in GC patients. Gene set enrichment analysis suggested that mutated MUC16 status was associated with down-regulation of PI3K/Akt/mTOR signaling and Myc expression. GC cells with MUC16 mutations had **reduced glycolytic capacity**.

(PDF) Targeting MUC16 in Cancer Therapy

<https://www.researchgate.net/publication/317612487>

ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

52,300 Results

Any time ▾

[MUC16 | Cancer Genetics Web](#)

www.cancerindex.org/geneweb/MUC16.htm ▾

Aug 30, 2019 · Of note, **loss-of-function mutation** in **MUC16** gene was identified. Mutated MUC16 predicted a better prognosis in GC patients. Gene set enrichment analysis suggested that mutated MUC16 status was associated with down-regulation of PI3K/Akt/mTOR signaling and Myc expression. GC cells with MUC16 mutations had reduced glycolytic capacity.

[MUC4, MUC16, and TTN genes mutation correlated with ...](#)

<https://onlinelibrary.wiley.com/doi/10.1002/ctm2.155>

Aug 22, 2020 · Previous studies reported that MUC16 mutation was associated with better prognosis and **higher tumor mutation burden (TMB)** in gastric cancer, while TTN mutation was associated with better response to **immune checkpoint blockade** in solid tumors, but the potential mechanisms were still unclear. 1, 2 Through the analysis in TCGA gastric adenocarcinoma cohort (N = 443) and FUSCC ...

Author: Yue Yang, Jieyun Zhang, Yanxing Chen, ... **Publish Year:** 2020

[\(PDF\) Targeting MUC16 in Cancer Therapy](#)

<https://www.researchgate.net/publication/317612487...>

MUC16 is a glycoprotein coded by one of the 21 mucin genes. CA125, the extracellular domain of **MUC16**, is a well-established biomarker for ovarian **cancer**, however there is no in depth literature ...

[MUC16 as a Novel Target for Cancer Therapy | Request PDF](#)

<https://www.researchgate.net/publication/326370310...>

MUC16 mutation was associated with **greater response rates** in the NSCLC cohort (odds ratio, 4.03; 95% CI, 1.06-16.43; P = .03) and the melanoma cohort (odds ratio, 3.38; 95% CI, 1.07-14.25; P = .03).

[Tumor Molecular Features Predict Endometrial Cancer ...](#)

<https://www.frontiersin.org/articles/10.3389/fonc.2021.634857> ▾

BackgroundThe **Cancer Genome Atlas (TCGA)** project shed light on the vital role of tumor molecular features in predicting endometrial **cancer** patients' **prognosis**. This **study** aims to investigate the survival impact of surgical approaches on patients with different genetic alterations. Methods473 endometrial **cancer** patients from TCGA database were selected.

[Frontiers | A Multi-Gene Model Effectively Predicts the ...](#)