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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.

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

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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**.

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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](#)

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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 ...](#)

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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.

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