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Precision medicine in gastric cancer

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Precision cancer medicine uses **targeted drugs and immunotherapies** engineered to directly attack gastric cancer cells with specific abnormalities, leaving normal cells largely unharmed. Herceptin® (trastuzumab) is a targeted therapy that interferes with specific pathways involved in the growth or spread of cancer.

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The reclassification of **gastric cancer** by TCGA on molecular and genomic basis lends to the argument to incorporate targeted **treatment** in everyday clinical management of **gastric cancer**. Precision medicine has the real potential to prolong survival and improve quality of life in patients with advanced **gastric cancer**.

Author: Karen De Souza, Suha Atabani, Sriniv... Publish Year: 2017

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## Precision medicine

Precision medicine (PM) is a medical model that proposes the customization of healthcare, with medical decisions, practices, and/or products being tailored to the individual patient. In this model, diagnostic testing is often employed for selecting appropriate and optimal therapies based on the context of a patient's genetic content or other molecular or cellular analysis.

Wikipedia

Data from: Wikipedia

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Name of Journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 48065

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### Precision medicine in gastric cancer

Patrizia Bonelli, Antonella Borrelli, Franca Maria Tuccillo, Lucrezia Silvestro, Raffaele Palaia, Franco Maria Buonaguro

#### Abstract

Gastric cancer (GC) is a complex disease linked to a series of environmental factors and unhealthy lifestyle habits, and especially to genetic alterations. GC represents the second leading cause of cancer-related deaths worldwide. Its onset is subtle and the majority of patients are diagnosed once the cancer is already advanced. In recent years, there have been innovations in the management of advanced GC including the introduction of new classifications based on its molecular characteristics. Thanks to new technologies such as next-generation sequencing and microarray, The Cancer Genome Atlas (referred to as the TCGA) and Asian Cancer Research Group (referred to as the ACRG) classifications have also paved the way for precision medicine in GC, making it possible to integrate diagnostic and therapeutic methods. Among the objectives of the subdivision of GC into subtypes is to select patients in whom molecular targeted drugs can achieve the best results; many lines of research have been initiated to this end. After phase III clinical trials, trastuzumab, anti-Erb-B2 receptor tyrosine kinase 2 (commonly known as ERBB2) and ramucirumab, anti-vascular endothelial growth factor receptor 2 (commonly known as VEGFR2) monoclonal antibodies were approved and introduced into first- and second-line therapies for patients with advanced/metastatic GC. However, the heterogeneity of this neoplasia makes the

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## Precision Medicine in Cancer Treatment - National Cancer ...

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## Gastric Cancer in the Era of Precision Medicine ...

<https://www.sciencedirect.com/science/article/pii/S2352345X17300334>

Gastric cancer (GC) is the fifth most common cancer worldwide and the third leading cause of cancer death in developed countries, with 984,000 new cases and 841,000 deaths occurring globally in 2013. 1 The incidence and mortality of GC are declining, in part because of improved **Helicobacter pylori eradication** and **cancer** screening.

**Cited by:** 17

**Author:** Xi Liu, Xi Liu, Stephen J. Meltzer

**Publish Year:** 2017

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