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Long noncoding RNAs in gastric cancer: From molecular dissection to clinical application

Guo Y *et al.* lncRNAs in GC

Yue Gao, Jun-Wei Wang, Jia-Yi Ren, Mian Guo, Cheng-Wang Guo, Shang-Wei Ning, Shan Yu

**Abstract**

Long noncoding RNAs (lncRNAs) are important regulators of cell processes that are usually dysregulated in gastric cancer (GC). Based on their high specificity and ease of detection in tissues and body fluids, increasing attention has spurred the study of the roles of lncRNAs in GC patients. Thus, it is necessary to elucidate the molecular mechanisms and further explore the clinical applications of lncRNAs in GC. In this review, we summarize current knowledge to examine dysregulated lncRNAs in GC and their underlying molecular mechanisms and activities in GC involving miRNA sponging, mRNA stability, genetic variants, alternative splicing, transcription factor

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4017056>

May 14, 2014 · MicroRNAs interrupt cellular signaling pathways, inhibit the activity of tumor suppressor genes, and affect the cell cycle in **gastric cancer** cells. **Long non-coding RNAs** (lncRNAs) represent a new research hotspot in the field of **gastric cancer**-associated ncRNAs. The global lncRNA expression profile in **gastric cancer** has been determined.

**Cited by:** 86

**Author:** Pei-Fei Li, Sheng-Can Chen, Tian Xia, Xi...

**Publish Year:** 2014

## [Long non-coding RNAs involved in metastasis of gastric cancer](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6127659)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6127659>

Sep 07, 2018 · **Gastric cancer** (GC) is one of the most frequently diagnosed malignant diseases. The **molecular** mechanisms of metastasis remain unclear. Recently, studies have shown that **long non-coding RNAs** (lncRNAs) play critical roles in metastasis.

**Cited by:** 8

**Author:** Meng-Ting Lin, Hao-Jun Song, Xiao-Yun ...

**Publish Year:** 2018

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Mar 17, 2017 · **Long** non-coding **RNAs** (lncRNAs) are gradually drawing the attention of the **cancer** research community due to their pivotal involvement in tumorigenesis and tumor progression []. These non-protein coding, >200 nucleotides **long** transcripts are aberrantly expressed in the majority of human malignancies, including **gastric cancer** (GC) [1, 2].

**Author:** Konstantinos Mavridis    **Publish Year:** 2017

## [Non-coding RNAs and gastric cancer - PubMed Central \(PMC\)](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4017056>

May 14, 2014 · Non-coding **RNAs** (ncRNAs) play key roles in development, proliferation, differentiation and apoptosis. Altered ncRNA expression is associated with **gastric cancer** occurrence, invasion, and metastasis. Moreover, aberrant expression of microRNAs (miRNAs) is significantly related to **gastric cancer** tumor stage, size, differentiation and metastasis.

**Cited by:** 85

**Author:** Pei-Fei Li, Sheng-Can Chen, Tian Xia, ...

**Publish Year:** 2014

## [A long non-coding RNA signature to ... - Molecular Cancer](#)

<https://molecular-cancer.biomedcentral.com/articles/10.1186/s12943-016-0544-0> ▼

Sep 20, 2016 · Increasing evidence suggests **long** non-coding **RNAs** (lncRNAs) are frequently aberrantly expressed in cancers, however, few related lncRNA signatures have been established for prediction of **cancer** prognosis. We aimed at developing a lncRNA signature to improve prognosis prediction of **gastric cancer** (GC). Using a lncRNA-mining approach, we performed lncRNA ...

**Cited by:** 72

**Author:** Xiaoqiang Zhu, Xianglong Tian, Cheny...

**Publish Year:** 2016





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**Cited by:** 85

**Author:** Pei-Fei Li, Sheng-Can Chen, Tian Xia, Xi...

**Publish Year:** 2014

## [Long Non-coding RNAs in Gastric Cancer: A ... - SpringerLink](https://link.springer.com/article/10.1007/s10620-017-4537-7)

<https://link.springer.com/article/10.1007/s10620-017-4537-7> ▾

Mar 17, 2017 · **Long** non-coding **RNAs** (lncRNAs) are gradually drawing the attention of the **cancer** research community due to their pivotal involvement in tumorigenesis and tumor progression []. These non-protein coding, >200 nucleotides **long** transcripts are aberrantly expressed in the majority of human malignancies, including **gastric cancer** (GC) [1, 2].

**Author:** Konstantinos Mavridis

**Publish Year:** 2017

## [Long Noncoding RNA in Cancer: Wiring Signaling Circuitry](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5869122)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5869122>

Among those non-coding genes, **long** non-coding **RNAs** (lncRNAs) are emerging as a new class of indispensable players involved in the development and progression of **cancer** [3–5]. Indeed, SNPs of lncRNAs have been shown to be associated with risk for prostate **cancer** [15, 16], lung **cancer** [17], breast **cancer** [18–20], among other **cancer** ...

**Cited by:** 156

**Author:** Chunru Lin, Liuqing Yang

**Publish Year:** 2017

## [A long non-coding RNA signature to ... - Molecular Cancer](https://molecular-cancer.biomedcentral.com/articles/10.1186/s12943-016-0544-0)

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Sep 20, 2016 · Increasing evidence suggests **long** non-coding **RNAs** (lncRNAs) are frequently aberrantly