

# Accepted Manuscript

Targetable long non-coding RNAs in cancer treatments

Liang Chen, Emmanuel Enoch Dzakah, Ge Shan

PII: S0304-3835(18)30064-8

DOI: [10.1016/j.canlet.2018.01.042](https://doi.org/10.1016/j.canlet.2018.01.042)

Reference: CAN 13710

To appear in: *Cancer Letters*

Received Date: 8 November 2017

Revised Date: 25 December 2017

Accepted Date: 9 January 2018

Please cite this article as: L. Chen, E.E. Dzakah, G. Shan, Targetable long non-coding RNAs in cancer treatments, *Cancer Letters* (2018), doi: 10.1016/j.canlet.2018.01.042.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## Targetable long non-coding RNAs in cancer treatments

Liang Chen\*, Emmanuel Enoch Dzakah, Ge Shan\*

CAS Key Laboratory of Innate Immunity and Chronic Disease, CAS Center for Excellence in Molecular Cell Science, School of Life Sciences, University of Science and Technology of China, Hefei, Anhui Province 230027, China.

\*Correspondence should be addressed to Liang Chen (anqingcl@ustc.edu.cn) or Ge Shan (shange@ustc.edu.cn).

### Abstract

Aberrant expression of many long non-coding RNAs has been observed in various types of cancer, implicating their crucial roles in tumorigenesis and cancer progression. Emerging knowledge with regard to the critical physiological and pathological roles of long non-coding RNAs in cancers makes them potential targets in cancer treatments. In this review, we present a summary of the relatively well studied long non-coding RNAs that are involved in oncogenesis and outline their functions and functional mechanisms. Recent findings that may be utilized in therapeutic intervention are also highlighted. With the fast development in nucleic acid-based therapeutic reagents that can target disease associated RNAs, lncRNAs should be explored as potential targets in cancer treatments.

**Keywords:** lncRNA, cancer, oncogenesis, therapeutics, dysregulation.

### Highlights

- . Dysregulation of long non-coding RNAs is common in cancers.
- . Some long non-coding RNAs are known to play critical roles in specific types of cancers.
- . It is highly possible and of great significance to develop cancer treatments targeting long non-coding RNAs.

Download English Version:

<https://daneshyari.com/en/article/8434852>

Download Persian Version:

<https://daneshyari.com/article/8434852>

[Daneshyari.com](https://daneshyari.com)