Translation and functional rules of circular RNAs in human cancer

Abstract

Circular RNAs are a new class of non -coding RNAs that play important role in various biological function. Recent methodologies have enabled the characterization of circRNAs for identifications and potential function.

Introduction

Circular RNAs are a new type of endogenous RNAs produced by non -canonical back-splicing events.

The first circRNAs was discovered in RNA virus in 1976, and were observed in eukaryotic cell lines by electron microscopy in 1991.genomic and transcriptomic that are generated by next generations sequencing projects and bioinformatics algorithms have identified amount of circRNAs in eukaryotic clearly demon-strating .high throughput technologies have enabled in depth charactization. Recent studies interested in biological function of circRNAs in human cancer. functions of circular RNAs:

* Acts as transcriptional regulators to control expression of genes
* Service the prognostic biomarker because of there stable charasteristics
* The knowledge of hidden peptides through encoding circular RNAs

The translation of RNAs is used to provide new perspective for cancer treatment