عنوان مقاله:

Non-coding RNAs Could Be New Tools for Cancer Treatment

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خلاصه مقاله:

For 50 years, the term gene is synonymous with regions of the genome gene that coding by mRNAs and translate to protein. nonetheless, Genome wide Recent studies have revealed that regulating gene expression through degradation or translational inhibition of their point mRNAs and thus attend in a wide variety of physiological and pathological cellular processes including: development, cell proliferation, differentiation, and apoptosis pathways by thousands of regulatory non coding RNA such as lncRNAs and microRNAs. According to a recent survey, it is known this RNAs have vital role in regulation cellular pathways at transcriptional, posttranscriptional and epigenetic levels. These noncoding genes are often aberrantly expressed in a variety of human cancers. However, the biological functions of most ncRNAs remain largely in doubt. In this review, we proved that a remarkable part of the genetic etiology of cancer is imposed by noncoding regulatory sequences. The purpose of this review is aimed to give an outlook of using of noncoding RNA as diagnostic markers and therapeutic targets. These observations emphasized that the recognition of coding genes and Research continued evolution and function of non-coding RNAs for a .comprehensive understanding human complex diseases like cancer are essential

کلمات کلیدی:

NcRNA, Expression, Transcription, Cell proliferation, Apoptosis, Cancer