

Long Non Coding Rnas

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Long Non Coding Rnas

Long non-coding RNAs (long ncRNAs, lncRNA) are a type of RNA, defined as being transcripts with lengths exceeding 200 nucleotides that are not translated into protein. This somewhat arbitrary limit distinguishes long ncRNAs from small non-coding RNAs such as microRNAs (miRNAs), small interfering RNAs (siRNAs), Piwi-interacting RNAs (piRNAs), small nucleolar RNAs (snoRNAs), and other short RNAs. [2]

Long non-coding RNA - Wikipedia

The development and application of whole genome sequencing technology has greatly broadened our horizons on the capabilities of long non-coding RNAs (lncRNAs). LncRNAs are more than 200 nucleotides in length and lack protein-coding potential. Increasing evidence indicates that lncRNAs exert an irreplaceable role in tumor initiation, progression, as well as metastasis, and are novel molecular ...

Frontiers | Long Non-Coding RNAs: The Regulatory ...

Long noncoding RNAs (lncRNAs) are comprised of diverse noncoding RNAs that are longer than 200 nucleotides, which structurally resemble mRNAs but do not encode proteins (Kung et al., 2013). Recent genome-wide annotation of human and mouse genomes indicated that lncRNAs were expressed in various tissues.

Long Non-Coding RNA - an overview | ScienceDirect Topics

Recently, the researchers from the Beijing Institute of Genomics of the Chinese Academy of Sciences have constructed an expression database of human long non-coding RNAs (lncRNAs), LncExpDB. This ...

LncExpDB: Expression database of human long non-coding RNAs

Long non-coding RNAs (lncRNAs) are transcripts longer than 200 bp and have little or no protein-coding capacity. Once considered as transcriptional noise, significant numbers of lncRNAs have now been identified as modulators of gene expression and functions, and are implicated in a range of developmental processes and disorders.

Long non-coding RNAs (lncRNAs): missing links in ...

Long non-coding RNAs (lncRNAs) are regulators of cellular machinery that are commonly dysregulated in genitourinary malignancies. Accordingly, the investigation of lncRNAs is improving our understanding of genitourinary cancers, from development to progression and dissemination. lncRNAs are involved []

Long non-coding RNAs in genitourinary malignancies: a ...

ncRNAs are a class of RNAs that do not encode any protein, and lncRNAs (long non-coding RNAs) are ncRNAs with lengths exceeding 200 nucleotides (nt). Although lncRNAs are not translated into proteins, they are of great significance in various cellular development progresses, such as gene expression/regulation [2], gene silencing [3], RNA ...

Predicting Long non-coding RNAs through feature ensemble ...

Long non-coding RNA (lncRNA) genes are an important population of non-coding RNAs with defined key roles in normal development as well as tumorigenesis process. Evidences suggest that they can be classified as tumor suppressor genes or oncogenes according to their functions and expression pattern in tumoral tissues.

The Role of Long Non-Coding RNAs in Breast Cancer

Long non-coding RNAs (lncRNAs) comprise a heterogeneous group of transcripts longer than 200 nucleotides that do not encode proteins. LncRNAs have been proposed to affect the expression of neighboring or distant genes by acting as signaling, guiding, sequestering or scaffolding molecules (St Laurent et al., 2015 ; Rinn and Chang, 2012 ; Nagalakshmi et al., 2008 ; Carninci et al., 2005 ; Kapranov et al., 2007).

Individual long non-coding RNAs have no overt functions in ...

The DNA sequence from which a functional non-coding RNA is transcribed is often called an RNA gene. Abundant and functionally important types of non-coding RNAs include transfer RNAs (tRNAs) and ribosomal RNAs (rRNAs), as well as small RNAs such as microRNAs, siRNAs, piRNAs, snoRNAs, snRNAs, exRNAs, scaRNAs and the long ncRNAs such as Xist and HOTAIR.

Non-coding RNA - Wikipedia

Long non-coding RNAs (lncRNAs) are over 200 nucleotides in length and are transcribed from the mammalian genome in a tissue-specific and developmentally regulated pattern. There is growing recognition that lncRNAs are novel biomarkers and/or key regulators of toxicological responses in humans and animal models.

Long Non-Coding RNAs: A Novel Paradigm for Toxicology ...

The non-coding RNAs are RNA molecules that are not translated into proteins. The non-coding RNA may be functional and non-functional. The functional ncRNA are used as gene regulators in the expression of genes and important functional ncRNA includes transfer RNA (tRNA), ribosomal RNA (rRNA), micro RNA (miRNA), and long non-coding RNA (lncRNA).

Learn About Noncoding Rnas In Transcription | Chegg.com

Long non-coding RNAs (lncRNAs) (more than 200 nucleotides) form the biggest group of mammalian ncRNA and are encoded in large intergenic loci or regions overlapping protein-coding genes (Quinn & Chang, 2016). Most of them are transcribed by RNA polymerase II, capped, spliced, and polyadenylated, thus, in general they are similar to mRNAs but do not encode proteins.

Long Non-Coding RNA - an overview | ScienceDirect Topics

Long non-coding RNAs are associated with various developmental pathways, regulatory systems, abiotic and biotic stress responses, and signaling, and can provide an alternative strategy for stress management in plants.

Long Non-coding RNAs in Plants - 1st Edition

Many long non-coding RNAs are encoded in regions proximal to the promoters of known coding genes, or as antisense transcripts to coding genes. lncRNAs are regulated independently of adjoining genes and have their own specific histone modifica-

Long non-coding RNAs as emerging regulators of ...

The identification of long non-coding RNAs (lncRNAs) relies on the detection of transcription from genomic regions that are not annotated as protein coding, such as regions that are devoid of open reading frames. This can be achieved by the direct detection of the transcribed RNA.

Long non-coding RNAs: new players in cell differentiation ...

Long non-coding RNAs (lncRNAs), the dark matter of the genome, are capable of regulating variant malignant processes of NSCLC like the invisible hands. Recent evidence suggests that lncRNAs are involved in TKI resistance in NSCLC, particularly in lineage plasticity-mediated resistance.

Long non-coding RNAs in lung cancer: implications for ...

Long non-coding RNAs (lncRNAs) are single-stranded RNAs mainly transcribed by RNA polymerase II, which undergo post-transcriptional processing, such as 5'-capping, splicing and polyadenylation [8]. This way lncRNAs closely resemble messenger RNAs (mRNA), but they are not translated to proteins.