

MOLECULAR BIOLOGY OF LONG NON-CODING RNAs

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The emerging molecular biology toolbox for the study of long noncoding RNA biology. Fok ET(1)(2), Scholefield J(1)(2), Fanucchi S(1)(2).

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Although long noncoding RNAs (lncRNAs) are among the least well-understood of Noncoding RNAs in the mammalian central nervous system. .. in cis natural antisense transcripts of humans and mice. Genetics. ;

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The State of Long Non-Coding RNA Biology

In addition to protein factors, noncoding RNAs (ncRNAs), particularly microRNAs and long ncRNAs, are able to remodel transcriptional circuits and reshape.

Long non-coding RNA - Wikipedia

Long non-coding RNAs (long ncRNAs, lncRNA) are a type of RNA, defined as being transcripts The FANTOM3 project identified ~35, non-coding transcripts from ~10, distinct loci that . Additionally, it is thought that many of the peptides produced by lncRNAs may be highly unstable and without biological function.

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Transcriptomic studies have demonstrated that the vast majority of the genomes of mammals and other complex organisms is expressed in.

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Not only was it unclear how they might fit into the existing conceptual framework of genetic information and gene regulation, assumed to be transacted by proteins acting in combinatoric fashion, their sheer number, if functional, threatened the primacy of this framework, which has long been an article of faith in molecular, cellular and developmental biology. Recently, a number of association studies examining single nucleotide polymorphisms SNPs associated with disease states have been mapped to long ncRNAs.

HypoxiaresponseandmicroRNAs:nolongertwoseparateworlds. Recent advances in RNA-sequencing technologies have led to the discovery of thousands of previously unannotated noncoding transcripts, including many long noncoding RNAs lncRNAs whose functions remain largely unknown. Gilbert W. Cell Reports. Forexample,themaajorityofprotein-codinggeneshaveantisensepartners, Neurosci. Biochimica et Biophysica Acta.