

RNA

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Ribonucleic acid or RNA is a nucleic acid, consisting of many nucleotides that form a polymer. Each nucleotide consists of a nitrogenous base, a ribose sugar, and a phosphate. RNA plays several important biological roles, including many processes involving translation of genetic information from deoxyribonucleic acid into proteins. One type of RNA acts as a messenger between DNA and the protein synthesis complexes known as ribosomes, others form vital portions of the structure of ribosomes or act as essential carrier molecules for amino acids to be used in protein synthesis. It has also been known since the 1990s that several types of RNA regulate which genes are active. RNA is very similar to DNA, but differs in a few important structural details: in the cell RNA is usually single stranded, while DNA is usually double stranded. RNA nucleotides contain ribose while DNA contains deoxyribose, and RNA uses the nucleotide uracil in its composition, instead of thymine which is present in DNA. RNA is transcribed from DNA by enzymes called RNA polymerases and is generally further processed by other enzymes. Some of these RNA processing enzymes contain their own RNAs. ([From the Wikipedia article RNA.](#))



Recent Publications on RNA:

- [Emulsion based selection of t7 promoters of varying activity.](#)
The ability to build and control complex biological systems is greatly... 13th November, 2009
Institute for Cell and Molecular Biology, University of Texas at Austin, 1- Pac Symp Biocomput. 2010:433-43.
- [Structural prediction of protein-RNA interaction by computational docking with propensity-based statistical potentials.](#)
Despite the importance of protein-RNA interactions in the cellular... 13th November, 2009
Life Sciences Department, Barcelona Supercomputing Center (BSC), Jordi- Pac Symp Biocomput. 2010:293-301.
- [Constructing multi-resolution markov state models \(msms\) to elucidate RNA hairpin folding mechanisms.](#)
Simulating biologically relevant timescales at atomic resolution is a... 13th November, 2009
Department of Chemistry, The Hong Kong University of Science & Technology, - Pac Symp Biocomput. 2010:228-39.
- [Predicting RNA structure by multiple template homology modeling.](#)
Despite the importance of 3D structure to understand the myriad functions... 13th November, 2009
Bioengineering Department, Stanford University, Clark Center S231, 318- Pac Symp Biocomput. 2010:216-27.
- [An algorithm for the energy barrier problem without pseudoknots and temporary arcs.](#)
We make two new contributions to the problem of calculating... 13th November, 2009
Department of Computer Science, University of British Columbia, Canada. - Pac Symp Biocomput.

2010:108-19.

- [Dynamic programming algorithms for RNA structure prediction with binding sites.](#)
Noncoding antisense RNAs have recently occupied considerable attention and... 13th November, 2009
Bioinformatics Center, Institute for Chemical Research, Kyoto University,- Pac Symp Biocomput. 2010:98-107.
- [Improvement of structure conservation index with centroid estimators.](#)
RNAz, a support vector machine (SVM) approach for identifying functional... 13th November, 2009
Department of Biosciences and Informatics, Keio University, 3-14-1- Pac Symp Biocomput. 2010:88-97.
- [Identification and classification of small rnas in transcriptome sequence data.](#)
Current methods for high throughput sequencing (HTS) for the first time... 13th November, 2009
University Leipzig, Chair of Bioinformatics & Interdisciplinary Center for- Pac Symp Biocomput. 2010:80-7.
- [RNAZ 2.0: IMPROVED NONCODING RNA DETECTION.](#)
RNAz is a widely used software package for de novo detection of structured... 13th November, 2009
Bioinformatics Group, Department of Computer Science, and- Pac Symp Biocomput. 2010;15:69-79.
- [RNA structural segmentation.](#)
We describe several dynamic programming segmentation algorithms to segment... 13th November, 2009
Department of Computer Science, Brown University, Box 1910, Providence, RI- Pac Symp Biocomput. 2010:57-68.
- [Effects on coagulation factor production following primary hepatomitogen-induced direct hyperplasia.](#)
AIM: To investigate the molecular mechanisms involved in coagulation... 13th November, 2009
Institute of Advanced Biomedical Engineering and Science, Tokyo Women's- World J Gastroenterol. 2009 Nov 14;15(42):5307-15.
- [Nrf2 regulates microglial dynamics and neuroinflammation in experimental Parkinson's disease.](#)
Neural injury leads to inflammation and activation of microglia that in... 13th November, 2009
Centro de Investigacion en Red sobre Enfermedades Neurodegenerativas- Glia. 2009 Nov 11. ([DOI Direct Link](#))
- [Cytoplasmic mislocalization of the orphan nuclear receptor Nurr1 is a prognostic factor in bladder cancer.](#)
BACKGROUND:: Nurr1 belongs to a novel class of orphan nuclear receptors... 13th November, 2009
Department of Urology, The University of Texas M. D. Anderson Cancer- Cancer. 2009 Nov 11. ([DOI Direct Link](#))
- [The tumor suppressor parafibromin is required for posttranscriptional processing of histone mRNA.](#)
Parafibromin, encoded by the gene HRPT2, is a tumor suppressor protein... 13th November, 2009
Laboratory of Cancer Genetics, Van Andel Research Institute, Grand Rapids,- Mol Carcinog. 2009 Nov 11. ([DOI Direct Link](#))
- [Interleukin-1beta and tumor necrosis factor-alpha regulation of CDX2 homeobox gene through nuclear factor kappa B-dependent pathway in the intestinal-type gastric cancer.](#)
The aims of this study were to reveal the correlation between the... 13th November, 2009
Department of Laparoscopic Surgery Unit, Union Hospital, Tongji Medical- Med Oncol. 2009 Nov 12. ([DOI Direct Link](#))

BioNews Results for RNA

- [Nobel Laureate Claims the 2010 Herbert Tabor Lectureship](#)
PR.com: Nov 14 2009 8:42AM Matching: rna
- [IDT enhances small RNA cloning system](#)
Laboratorytalk: Nov 13 2009 8:10AM Matching: rna

- [LC/MS analysis of cellular RNA reveals NAD-linked RNA](#)
Nature Chemical Biology: Nov 13 2009 8:15PM Matching: rna
- [Scientists describe how HIV assemble at the membrane of infected cells and are released to attack healthy cell](#)
News-Medical.Net: Nov 13 2009 12:22PM Matching: rna
- [How HIV Is Assembled And Released From Infected Cells](#)
Science Daily: Nov 13 2009 12:55AM Matching: rna
- ['Cross-talk' Mechanism Contributes to Colorectal Cancer](#)
Newswise: Nov 13 2009 11:05PM Matching: rna
- ['Cross-talk' mechanism contributes to colorectal cancer](#)
EurekAlert!: Nov 13 2009 9:53PM Matching: rna
- ['Cross-talk' Mechanism Contributes to Colorectal Cancer](#)
NewsBlaze: Nov 13 2009 9:47PM Matching: rna
- [Medical News: Cequent Files Its First IND With FDA: CEQ508, A TkrNAi Drug Candidate In Oncology](#)
BioFind: Nov 13 2009 1:16PM Matching: rna
- [::: Cequent Files its First IND with FDA: CEQ508, a tkRNAi Drug Candidate in Oncology](#)
Biotech Intelligence: Nov 13 2009 3:35AM Matching: rna
- [Highly Sensitive C-Reactive Protein, Body Mass Index, and Serum Lipids in HIV-Infected Persons Receiving Antir](#)
JAIDS: Nov 13 2009 2:20AM Matching: rna
- [Plasma Cytokine Levels in Tanzanian HIV-1-Infected Adults and the Effect of Antiretroviral Treatment](#)
JAIDS: Nov 13 2009 2:20AM Matching: rna
- [Bioo antibody conjugation could combat cancer](#)
Laboratorytalk: Nov 13 2009 8:05AM Matching: rna
- [Exploiting Recently Discovered Mechanism Allows Biologists to Develop Disease Treatments by Shutting Down Specific Genes](#)
Azonano: Nov 12 2009 5:50AM Matching: rna
- [Update on Alnylam Pharmaceuticals' RNAi pipeline, platform, and technology](#)
News-Medical.Net: Nov 12 2009 3:19PM Matching: rna

RNA Patents:



- 7615538- [Method for therapy of rheumatoid arthritis](#)
- 7615618- [Oligonucleotides comprising a non-phosphate backbone linkage](#)
- 7615619- [Nucleoside analogues and oligonucleotide derivative comprising nucleotide analogue thereof](#)
- 7615620- [Detection system for PCR assay](#)
- 7615621- [High lysine maize compositions and methods for detection thereof](#)
- 7615622- [Methods and compositions for reducing heparan sulfate proteoglycan-mediated clearance of factor VIII](#)
- 7615623- [BAG proteins and nucleic acid molecules encoding them](#)
- 7615624- [Arabidopsis derived promoters for regulation of plant expression](#)
- 7615625- [In vitro amplification of nucleic acid molecules via circular replicons](#)
- 7615626- [Methods, agents, and compound screening assays for inducing differentiation of undifferentiated mammalian cells into osteoblasts](#)

- 7615627- [RNA interference mediated inhibition of aurorakinase B and its combinations as anticancer therapy](#)
- 7615614- [Antigen constructs useful in the detection and differentiation of antibodies to HIV](#)
- 7615613- [Antigen constructs useful in the detection and differentiation of antibodies to HIV](#)
- 7615612- [Polypeptide](#)
- 7615539- [Nucleic acid-lipophilic conjugates](#)
- 7615540- [Formulations comprising antisense nucleotides to connexins](#)
- 7615541- [siRNA targeting TIE-2](#)
- 7615542- [Dioxolane thymine and combinations for use against 3TC/AZT resistant strains of HIV](#)
- 7615546- [Topical delivery system for phytosterols](#)
- 7615552- [Fused heterocyclic compounds](#)
- 7615554- [Erastin and erastin binding proteins, and uses thereof](#)
- 7615576- [Prevention of neutrophil recruitment](#)
- 7615610- [Modified trafficking patterns for arrestin and G-protein-coupled receptors via arrestin-ubiquitin chimera](#)
- 7615611- [Human cytokine receptor](#)
- 7615629- [Methods and compositions for the tandem synthesis of two or more oligonucleotides on the same solid support](#)
- 7615643- [Benzimidazole thiophene compounds](#)
- 7615694- [Plants and seeds of corn variety CV988815](#)
- 7615695- [Plants and seeds of hybrid corn variety CH394140](#)
- 7615696- [Plants and seeds of hybrid corn variety CH160029](#)
- 7615697- [Plants and seeds of hybrid corn variety CH060503](#)
- 7615739- [Spin microscope based on optically detected magnetic resonance](#)
- 7615758- [Laser confocal microarray scanner](#)
- 7615760- [Luminescence sensor comprising at least two wire grids](#)
- 7615762- [Method and apparatus for low quantity detection of bioparticles in small sample volumes](#)
- 7615780- [DNA biosensor and methods for making and using the same](#)
- 7616954- [Method and system for providing GSM IR. 73 SoR compliant cellular traffic redirection](#)
- 7615693- [Plants and seeds of corn variety EX7834](#)
- 7615692- [Plants and seeds of hybrid corn variety CH946240](#)
- 7615690- [Inbred maize variety PHHCF](#)
- 7615646- [Chiral indole intermediates and their fluorescent cyanine dyes containing functional groups](#)
- 7615678- [Methods for using artificial polynucleotides and compositions thereof to reduce transgene silencing](#)
- 7615679- [Method of producing polyunsaturated fatty acids, novel biosynthesis genes, and novel plant expression constructs](#)
- 7615680- [Temporal seed promoters for expressing genes in plants](#)
- 7615681- [Methods for modifying plant responses to stress and correspondingly derived plants](#)
- 7615682- [Dry bean line 08550813](#)
- 7615683- [Dry bean line 08540800](#)
- 7615684- [Dry bean line 08530714](#)
- 7615685- [Methods of producing human or animal food from stably transformed, fertile maize plants](#)
- 7615686- [Expression and use of novel pesticidal toxins](#)
- 7616991- [Method for digital cardiac rhythm management](#)

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