Rna Structure And Function Cold Spring Harbor Monograph

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Rna Structure And Function Cold

Efforts up to now have focused on targeting a virus’s proteins, says Hannon, but he and his

colleagues have identified cylindrically shaped molecules that can block the function of untranslated RNA.

Next-Gen Antiviral Agents Block Function Of Untranslated RNA
RNA is similar in structure to DNA but is involved in different cellular functions. RNA contains the same basic elements of DNA but with three major differences in its structure. This video will ...

Basic Molecular Biology: Basic Science – RNA Structure
The messenger RNA technology used to make Moderna's and Pfizer/BioNTech's wildly successful coronavirus vaccines is being tested not only in other vaccines, but as a cancer treatment, gene therapy and ...

Messenger RNA vaccines: Now proven against coronavirus, the technology can do so much more
The structure of the human ribosomal RNA gene clustering region (rDNA) has traditionally been hard to analyze due to its highly repetitive nature. However, the recent development of long-read ...

The human ribosomal RNA gene is composed of highly homogenized tandem clusters
Over time, we accumulate genetic damage that accelerates the aging process, increasing the risk of carcinogenesis. DNA is continually

challenged by genotoxic factors that affect its fragile structure, ...

Discovery of new key protein in cell function paves way for new therapies
This illustration depicts RNA as a double-stranded stem and a loop, and the glycan as a Tinkertoy-like structure branching off it ... Sugars serve a key role in cellular communication, among other ...

Some RNA Molecules Have Unexpected Sugar Coating
focused on the viral polymerase essential for replicating viral RNA. They determined a structure of the polymerase bound to ... By itself, nsp12 has little activity and its functions require accessory ...

Structural basis for inhibition of the RNA-dependent RNA polymerase from SARS-CoV-2 by remdesivir
A bacterial protein helps to stop transcription—the process of making RNA copies of DNA to carry out the functions of the ... relies on an RNA hairpin structure that forms in the RNA molecule ...

Study describes new mechanism for terminating transcription of DNA into RNA in bacteria
Learn more What kills most people who die from cancer is not the initial tumor. It’s the intolerable disease burden on the body that arises when tumor cells continually

expand their numbers after ...

Spread of Breast Cancer Linked to Newly Discovered RNA Splicing Mechanism
The technique proposed by the team uses cylindrically-shaped molecules which can block the function ... RNA contain junction points and bulges—essentially small holes in the structure– which ...

Targeting viral RNA: The basis for next-gen broad spectrum anti-viral drugs
In a paper published in the May 13th, 2021 issue of PLOS Genetics, a Z-RNA nanoswitch that regulates ... scientists have wondered if this structure has a function in biology.

A Z-RNA nanoswitch encoded by 'junk DNA' turns-off immune responses against self
When NASA's SpaceX Commercial Resupply Mission-22 launches from the Kennedy Space Center in Florida on June 3, it will carry two Ohio University experiments to the International Space Station.

Tiny seedlings and 3 million worms: Two OHIO experiments headed to International Space Station on June 3
Untranslated RNA contain junction points and bulges - essentially small holes in the structure- which are normally ... and targeted to extend their function against many other viruses that infect ...

New approach targeting viral RNA could lead to broad spectrum anti-viral drugs
The 2021 Warren Alpert Foundation Prize has been awarded to scientists Lynne Maquat and Joan Steitz for seminal discoveries in the biology and function of RNA, the workhorse molecule of cells.

2021 Warren Alpert Prize awarded to two scientists for RNA discoveries
Here we present the cryo-electron microscopy structure of a translating ... for synthesis of viral RNA-dependent RNA polymerase (RdRp or Nsp12) and downstream viral non-structural proteins encoding ...

Structural basis of ribosomal frameshifting during translation of the SARS-CoV-2 RNA genome
They fulfill a plethora of essential viral functions ... resulting structure of this study shows a highly-conserved zinc ion-binding site, implying an important role for Nsp2 in RNA binding.

SARS-CoV-2 Nsp2 structure revealed by cryo-EM and AI
Cold Spring Harbor Laboratory (CSHL ... BARseq2 brings brain structure and function together. Sun, a former research technician in Zador's lab and now a New York University graduate student ...