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Biology Mammalian Structure And Function

Researchers have provided the first evidence that RNA sequences can be written back into DNA, a feat more common in viruses than eukaryotic cells.

Mammalian Cells Can Convert RNA Segments Back Into DNA, New Research Reveals

In a discovery that challenges long-held dogma in biology, researchers show that mammalian cells can convert RNA sequences back into DNA, a feat more common in viruses than eukaryotic cells. Cells ...

New Discovery Shows Human Cells Can Write RNA Sequences Into DNA - Challenges Central Principle in Biology

These include studies of cellular communication in plants, development and function of germline cells in mammalian cells ... and the structure and function of cell membranes among others. Labs in ...

Cell Biology

NIH study breaks down pigment epithelium-derived factor to understand how it protects and stimulates retinal neurons.

Scientists unravel the function of a sight-saving growth factor
This book, drawing together contributions from leading scientists, reviews significant recent advances in our knowledge of mammalian antimicrobial peptides. In addition to providing up-to-date ...

Mammalian Host Defense Peptides

4 Center for Genomics and Systems Biology (CGSB), New York University Abu Dhabi ... including the ER shape-dynamics-function relationships in mammalian cells. We have observed that inactivating EXT1 ...

Alternative glycosylation controls endoplasmic reticulum dynamics and tubular extension in mammalian cells
Gardner and collaborators will endeavor to solve some puzzles of basic

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peroxisome biology. How do gene mutations impact these organelles' functions? What mammalian factors are involved in the ...

Solving the Peroxisome Puzzle

11 October 2017 The 3D structure ... functions of these proteins remains an arduous goal. Integrative structural biologists—a diverse collection of scientists from various fields such as cell ...

Accelerating the path from structure to function through integrated structural biology solutions

Scientists are already preparing for a possible next coronavirus pandemic to strike, keeping with the seven-year pattern since 2004.

New drug target found for future and current coronaviruses

All the cells of an organism share the same DNA sequence, but their functions ... in mammalian genomes, and we confirmed our earlier in vitro result on the relationship between 3D structure ...

Regulation of the genome affects its 3D structure

This book will stimulate cooperative research in fields as diverse as paleontology, molecular biology ... replacement patterns in non-mammalian vertebrates B. K. Berkovitz 14. The evolution of tooth ...

Development, Function and Evolution of Teeth

Gene activity has to be carefully controlled by cells so that they maintain their identity and continue to carry out their proper functions ... in mammalian genomes, and we confirmed our earlier in ...

Methylation Affects the 3D Structure of the Genome

These so-called 'glycoRNAs' poke out from mammalian cells' outer membrane ... "Based on the framework by which we understand cell biology, there's no place where glycan sugars and RNA would ...

Some RNA molecules have unexpected sugar coating

4 Department of Biology and Institute of Plant ... a substrate specificity distinct from that of mammalian DNA methyltransferases. However, the underlying mechanism is unknown. Here, we report ...

Substrate deformation regulates DRM2-mediated DNA methylation in plants

Structural biologists at St. Jude Children's Research Hospital have determined the detailed structure of an enzyme whose mutated forms are known to cause Parkinson's disease. The achievement opens a ...

Structure of enzyme that causes Parkinson's promises pathways to new drugs

integration of neural function; immunogenetics; immune cell differentiation and development; molecular biology of the immune system; regulation of muscle contraction; molecular and cell

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architecture; ...

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