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Volume 51, Issue 5
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Memorial Issue Dedicated to the 50th Anniversary of the Department of Bioorganic Chemistry, Faculty of Biology, Lomonosov Moscow State University

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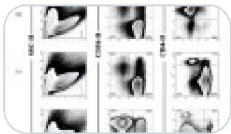
Nonclassical Cannabinoid Receptors: Modern Concepts of Signal Transmission Functions and Mechanisms



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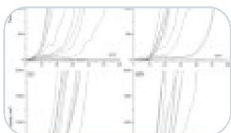
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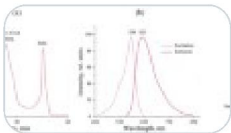
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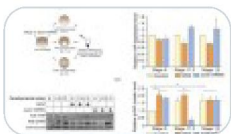
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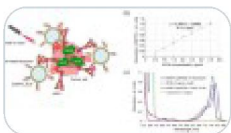
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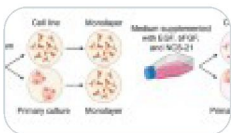
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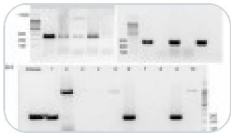
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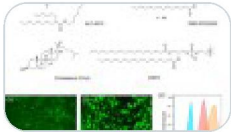
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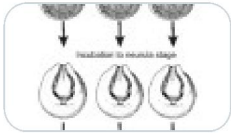
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Transcriptome Analysis of Zyxin Cytoskeletal Protein Levels: Influence on Metabolism and Signaling Pathways in a Model of *Xenopus laevis* Embryos

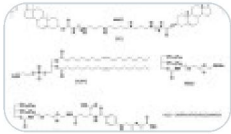


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Changes in the Protein Composition of the *Exiguobacterium sibiricum* Membrane with Decreasing Temperature: A Proteomic Analysis

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NLS Peptide Improves the Efficiency of pDNA Delivery into Eukaryotic Cells Mediated by Cationic Liposomes



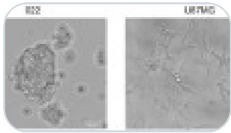
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Development of an Experimental Intracranial PDX Model of Human Glioblastoma in NSG Mice

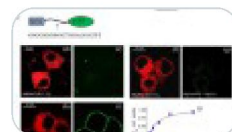


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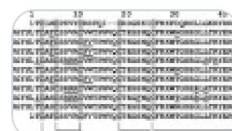
The diagram illustrates the classification of the human genome into three main categories:

- 1. Genes that code for proteins:** This category includes the largest portion of the genome, which codes for proteins. It is further divided into:
 - Protein-coding genes
 - Non-coding genes
- 2. Genes that code for non-coding RNA:** This category includes genes that code for non-coding RNA, which are further divided into:
 - Small non-coding RNA
 - Long non-coding RNA
- 3. Genes that code for regulatory elements:** This category includes genes that code for regulatory elements, which are further divided into:
 - Enhancers
 - Promoters
 - Insulators

Properties of Potassium Channel Kv1.1 on the Basis of Fluorescent Dimer of Alpha-Subunits mKATE2-Kv1.1-Kv1.1 in Neuro-2a Cells



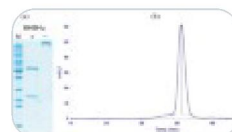
Three-Finger Viper Toxins: cDNA Cloning and Expression in *E. coli* Using a Chimeric (Hybrid) Construction with a SUMO Fusion Partner Protein



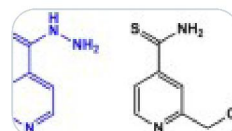
Development of a Bacterial Expression System for Producing $^{15}\text{N}/^{13}\text{C}$ -Labeled Neuroglobin and Cytochrome C



Study of the Antiproliferative Activity of a Humanized Antibody to the Cancer-Testis Antigen PRAME



Role of Different Isoniazid Analogs as Antitubercular Agents

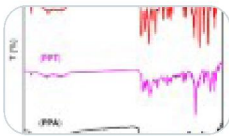


Rich Phenolic Structure of Flavone Glycosides and Feruloylquinic Acid: Evaluation of Their Bioactivity in the Natural Plant *Acer palmatum* var. *amoenum*



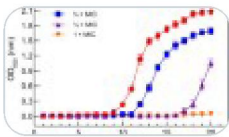
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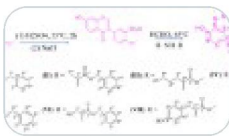
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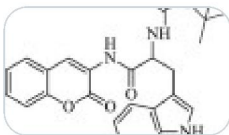
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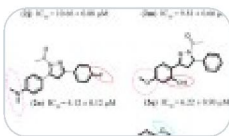
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Coumarins

Unveiling the Antidiabetic Potential of 6-Chloro-3-(2-substituted-4-oxothiazolidin-3-yl)-2-phenylquinazolin-4(3*H*)-one Derivatives: Design, Synthesis, and Biological Evaluation Targeting Fructose 1,6-Bisphosphatase with *In Silico* ADMET and Docking Approaches



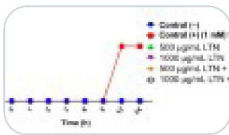
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Neurochemical Protection of Lutein against Sodium Nitroprusside-Induced Oxidative Damage in the *Nauphoeta cinerea* Model



Coumarins as Emerging Agents in Neurodegenerative Disease Management

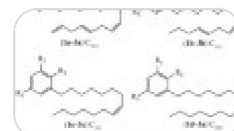


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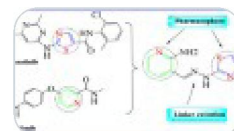
New Coumarin Hybrids from Chloramphenicol: A Step Towards Next-Generation Biocompatible Antimicrobials

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