

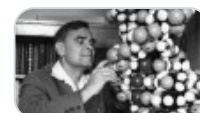


Volume 90, Issue 11  
November 2025

Advances in Molecular Biology: Special Issue in Memory of Andrey N. Belozersky. Guest editors: Petr V. Sergiev and Andrey A. Zamyatnin, Jr.

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## **Andrey Nikolaevich Belozersky: Five Decades in Science. Preface to the Special Issue**



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## **Laboratory Evolution: Molecular–Genetic Basis and Phenotypic Plasticity**

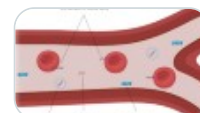
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## **The Role of Non-Homologous End Joining and Microhomology-Mediated End Joining in Chromosomal Rearrangements**



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## **Circulating Tumor DNA And Its Potential Applications for Assessing Effectiveness of Neoadjuvant Drug Therapy in the Breast Cancer Patients**

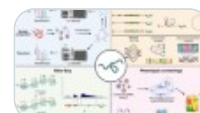


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## ***In vivo* and *in vitro* Models of Hepatitis B Virus Infection**

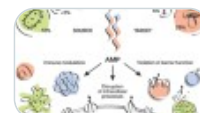
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## **Methodological Toolbox for Identifying and Studying Micropeptides: From Genome to Function**



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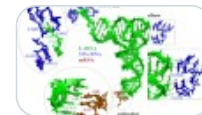
## **New Aspects of Protein Biosynthesis Inhibition by Proline-Rich Antimicrobial Peptides**



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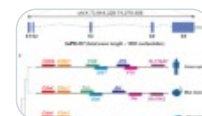
## **The NeverEnding E-Story**



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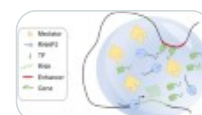
## **Long Non-Coding RNA *JPX*: Structure, Functions, and Role in Chromatin Architecture**



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## **Biomolecular Condensates in the Regulation of Transcription and Chromatin Architecture**



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## **20 Years of DNA Barcoding – Achievements and Problems**

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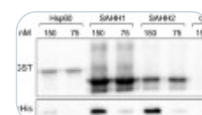
## **A Unique Mechanism of Glycine-Specific Inhibition of Bacterial Translation by Bottromycin A<sub>2</sub>**



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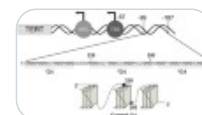
## **Cellular Proteins Hsp60 and SAHH as Negative Regulators of the Early Stages of HIV-1 Replication**



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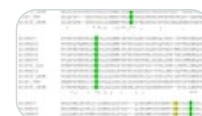
## **Reporter System for Detection of G-Quadruplexes in the Human Telomerase Reverse Transcriptase Gene Promoter Region**



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## **Serine Peptidase Homolog from the Beetle *Tenebrio molitor* with Substitution of Serine Residue with Threonine in the Catalytic Triad**



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## **Relationships of *GDAP1* Mutations to Disease Phenotype and Mechanisms of Therapeutic Action of Oxidative Metabolism Activators in a Patient with Charcot–Marie–**

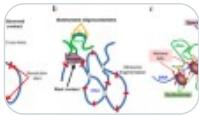


**Tooth Neuropathy Type 2K**

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**Comparative Analysis of RNA-Chromatin Interactome Data: Resolution, Completeness, and Specificity**



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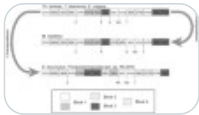
**Conflicting Phylogenetic Signals between the Nuclear Ribosomal and Plastome DNA as Evidence for Hybrid Origin of the Tetraploid Member of *Salicornia* (Amaranthaceae s.l.)**



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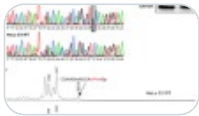
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**Activity of METTL4 Methyltransferase Is Crucial for Maintaining Optimal Splicing Efficiency in HeLa S3 Cells**



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**Cysteine Cathepsins and Drug Discovery: Knowns and Unknowns**

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**In Search of Novel Diagnostic Biomarkers for Psychoneurological and Neurodegenerative Diseases: Translation Factors DENR and eIF2D**

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