



Volume 90, Issue 6

June 2025



Genetic Technologies in Medicine, Agriculture, and Biotechnology (Special Issue).
Guest Editors: Dmitry S. Kostyushev and Andrey A. Zamyatnin, Jr.

11 articles in this issue

Preface to the Special Issue “Genetic Technologies in Medicine, Agriculture, and Biotechnology”

Dmitry S. KostyushevAndrey A. Zamyatnin Jr.

EDITORIAL NOTES | 01 July 2025 | Pages: 649 - 649

The Role of m⁶A-RNA Methylation in the Development, Progression, and Treatment Response of Bladder Cancer

Tatiana SinyagovskayaYuliya LiAnastasiya Kostyusheva

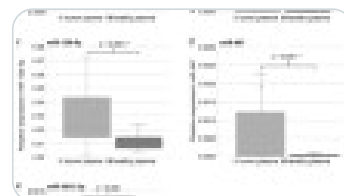
REVIEW | 01 July 2025 | Pages: 650 - 670



Diagnostic and Prognostic Potential of Circulating miR-1301-3p, miR-106a-5p, miR-129-5p, miR-3613-3p, and miR-647 microRNAs in Gastric Cancer

Irina V. BureEkaterina A. VetchinkinaMarina V. Nemtsova

OriginalPaper | 01 July 2025 | Pages: 671 - 682



Transcriptional Biomarkers in the Diagnosis of Genetic Disorders: Opportunities, Challenges, and Prospects for Application

Lidia N. NefedovaTatiana N. Krasnova

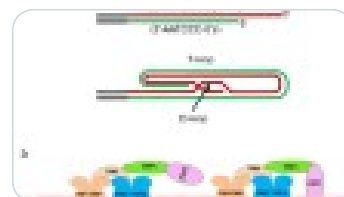
REVIEW | 01 July 2025 | Pages: 683 - 699



Telomere Length and Telomerase Activity as Biomarkers in the Diagnostics and Prognostics of Pathological Conditions

Elizaveta Yu. MoskalevaAlexander I. GlukhovSvetlana A. Vorobiova

REVIEW | 01 July 2025 | Pages: 700 - 724



Selection of UTRs in mRNA-Based Gene Therapy and Vaccines

Ilya A. VolkhinAnastasia Iu. ParemskaiaAndrei A. Deviatkin

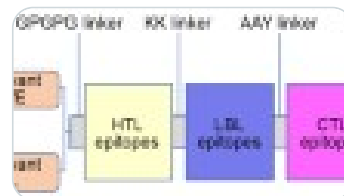
REVIEW | 01 July 2025 | Pages: 725 - 753



Multiepitope mRNA Vaccine mRNA-mEp21-FL-IDT Provides Efficient Protection against *M. tuberculosis*

Alisa A. KazakovaGalina S. ShepelkovaVasiliy V. Reshetnikov

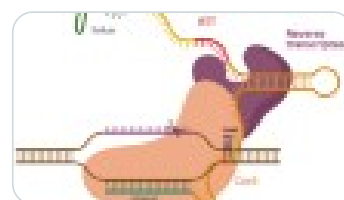
OriginalPaper | 01 July 2025 | Pages: 754 - 772



Selection of Optimal pegRNAs to Enhance Efficiency of Prime Editing in AT-Rich Genome Regions

Olga V. VolodinaAnna G. DemchenkoSvetlana A. Smirnikhina

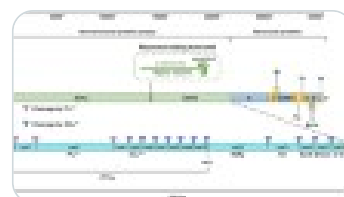
OriginalPaper | 01 July 2025 | Pages: 773 - 785



Progress in CRISPR/Cas13-Mediated Suppression of Influenza A and SARS-CoV-2 Virus Infection in *in vitro* and *in vivo* Models

Alisa A. KazakovaElena I. LeonovaVasiliy V. Reshetnikov

REVIEW | 01 July 2025 | Pages: 786 - 803



Biotechnological Approaches to Plant Antiviral Resistance: CRISPR-Cas or RNA Interference?

Natalia O. KalininaNadezhda A. SpechenkovaMichael E. Taliansky

REVIEW | 01 July 2025 | Pages: 804 - 817



Designing a Thermostable Mini-Intein for Intein-Mediated Purification of Recombinant Proteins and Peptides

Andrey A. KaranovEvgeniy A. ZayatsRoman S. Esipov

OriginalPaper | 01 July 2025 | Pages: 818 - 827

