

Special Issue

Gene Editing from Bench to Bedside and Back

Message from the Guest Editor

Gene and base editing technologies have revolutionized the field of molecular medicine by enabling precise, targeted modifications of the genome. The rapid development of tools like **CRISPR-Cas9** and **base editing** offers unprecedented opportunities for treating genetic disorders with minimal off-target effects. Clinical trials are already demonstrating the potential of gene editing to correct mutations in diseases like **sickle cell anemia** and **beta-thalassemia**, where gene-edited stem cell therapies have shown promising results. Additionally, base editing is being explored for conditions such as **cystic fibrosis** and **Duchenne muscular dystrophy**, with early-stage trials targeting precise DNA corrections.

Guest Editor

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