

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

Dr. Daniel Rosenblum

Department of Immunology and Immunotherapy, Icahn School of Medicine at Mount Sinai, New York, NY 10029, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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