

ABSTRACT

Disclosed are a LEAPER technique-based nucleic acid drug and a method for treating diseases such as Hurler syndrome by means of using the nucleic acid drug to target and edit RNA. The method comprises: performing an editing from adenosine base to hypoxanthine base on RNA by using the nucleic acid drug to precisely repair the pathogenic G>A mutation site of, for example, Hurler syndrome; thereby recovering the normal *in vivo* expression of a protein encoded by RNA, such as IDUA.