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(54) Title: THERAPEUTIC APPLICATIONS OF CRISPR TYPE V SYSTEMS

(57) Abstract: The present disclosure provides methods and compositions for therapeutic use, where the methods and compositions include Type V CRISPR systems with RNA guides contain ribonucleotide bases and at least one deoxyribonucleotide base. The Type V CRISPR systems are used to perform therapeutic, genome editing in somatic cells, induced pluripotency stem cells (iPSCs) and germline or embryonic cells of animals for xenotransplantation of organs and tissues

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