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(71) Applicants: **THE BROAD INSTITUTE INC.** [US/US]; 7 Cambridge Center, Cambridge, MA 02142 (US). **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** [US/US]; 77 Massachusetts Ave., Cambridge, MA 02142 (US).

(72) Inventors: **ZHANG, Feng**; 100 Pacific Street, Apt. 11, Cambridge, MA 02139 (US). **HEIDENREICH, Matthias**; 53 Chester Street, Somerville, MA 02144 (US). **SWIECH, Lukasz**; 6 Greenwich Street, Apt.#3, Boston, MA 02120 (US).

(74) Agents: **KOWALSKI, Thomas, J.** et al.; Vedder Price P.C., 1633 Broadway, New York, NY 10019 (US).

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(54) Title: DELIVERY, ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR TARGETING AND MODELING DISEASES AND DISORDERS OF POST MITOTIC CELLS

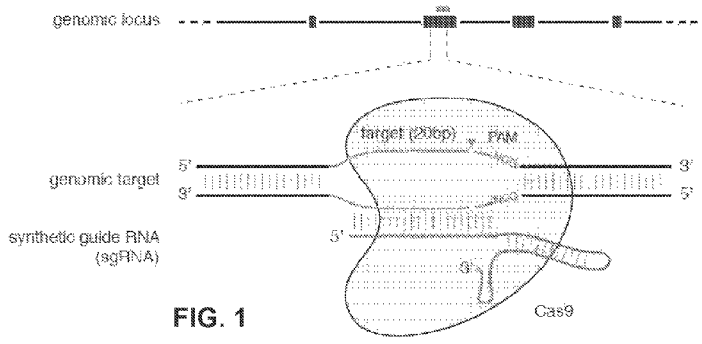


FIG. 1

(57) Abstract: The invention provides for delivery, engineering and optimization of systems, methods, and compositions for manipulation of sequences and/or activities of target sequences. Provided are delivery systems and tissues or organ which include post mitotic cells which are targeted as sites for delivery. Also provided are vectors and vector systems some of which encode one or more components of a CRISPR complex, as well as methods for the design and use of such vectors. Also provided are methods of directing CRISPR complex formation in eukaryotic cells to ensure enhanced specificity for target recognition and avoidance of toxicity and to edit or modify a target site in a genomic locus of interest to alter or improve the status of a disease or a condition.

WO 2014/204728 A8