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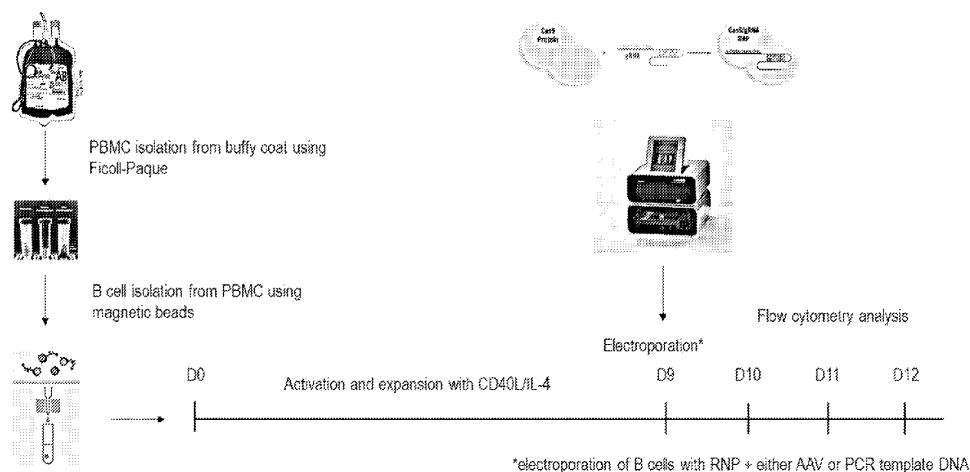


FIG. 1

(57) Abstract: The invention(s) disclosed herein relate to improved methods for expanding cell populations, particularly B cell populations. The invention further relates comprising improved cell media, compositions thereof, and methods of using such expanded B cells. Wherein a population of cells comprises engineered human B cells, wherein the engineered human B cells comprise a therapeutic protein, whose gene has been inserted into the beta-2M locus.

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