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(71) Applicant: **UL MED INC.** [US/US]; 3865 Rainforest Circle, Norcross, Georgia 30092 (US).

(72) Inventors: **LI, Wei**; 3865 Rainforest Circle, Norcross, Georgia 30092 (US). **YOU, Shaojin**; 3865 Rainforest Circle, Norcross, Georgia 30092 (US). **LIN, Michael Chengnan**; 3865 Rainforest Circle, Norcross, Georgia 30092 (US). **YOU, Annie**; 3865 Rainforest Circle, Norcross, Georgia 30092 (US).

(74) Agent: **XIA, Tim Tingkang**; P.O. Box 55874, Boston, Massachusetts 02205 (US).

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(54) Title: SYSTEM AND METHOD FOR CONVERTING ADIPOSE DERIVED MESENCHYMAL STEM CELLS TO HEMATOPOIETIC STEM/PROGENITOR CELLS AND DIFFERENTIATING INTO BLOOD CELLS AND APPLICATIONS OF SAME

Sorting Sca-1(Pink) Positive Cells from Converted mouse HS/PC

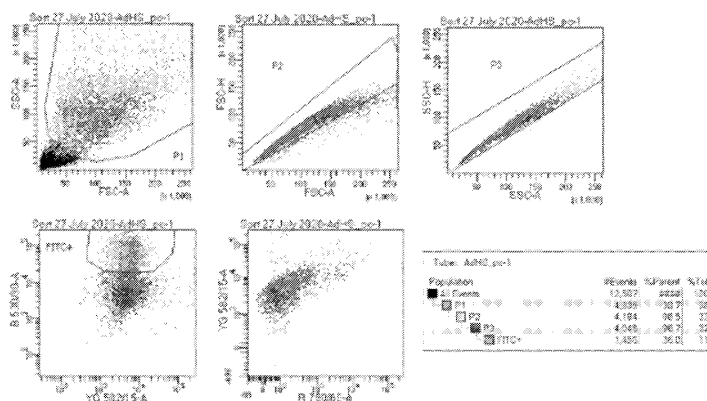


Fig. 9

(57) Abstract: A method of producing hematopoietic stem/progenitor cells (HS/PCs) and blood cells from adipose derived mesenchymal stem cells (Ad MSCs). The method comprises obtaining biological cells of a subject; expanding the biological cells; obtaining a pure Ad MSCs cell line from the expanded biological cells; converting the pure Ad MSCs cell line into HS/PCs in vitro; expanding the converted HS/PCs in vitro; and obtaining the expanded HS/PCs.

[Continued on next page]

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