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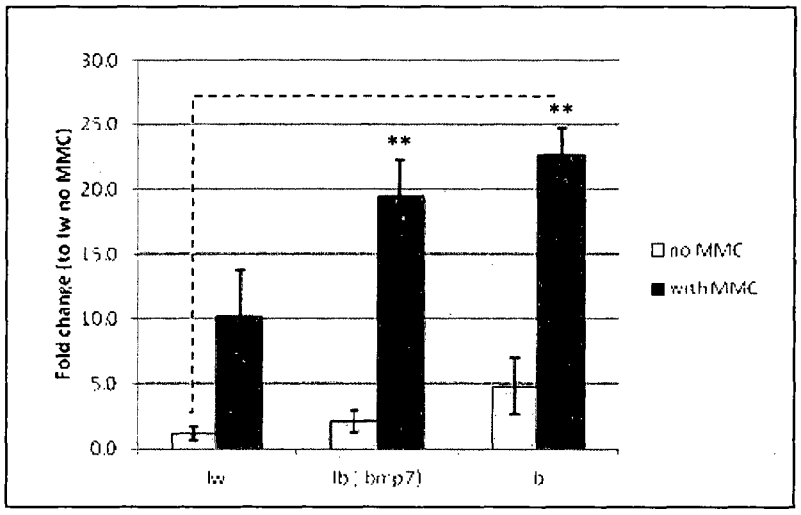
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(54) Title: GENERATION OF BROWN ADIPOSE TISSUE (BAT) FROM MESENCHYMAL CELLS



(57) Abstract: Methods of generating functional human brown adipocytes, comprising exposing human stem cells, progenitor cells, or white adipocytes to culture with an differentiation cocktail that comprises one or more browning agents (e.g., one or more macromolecular crowders), and optionally one or more adipogenic agents, are described, as are populations of human brown adipocytes generated by the methods, and uses for the populations. Methods of generating functional human brown adipocytes in an individual, such as by administering a pharmaceutical composition comprising an differentiation cocktail, are also described.

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