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(54) Title: SCALING UP MYOGENIC TISSUE: LATE PASSAGE MYOGENICITY

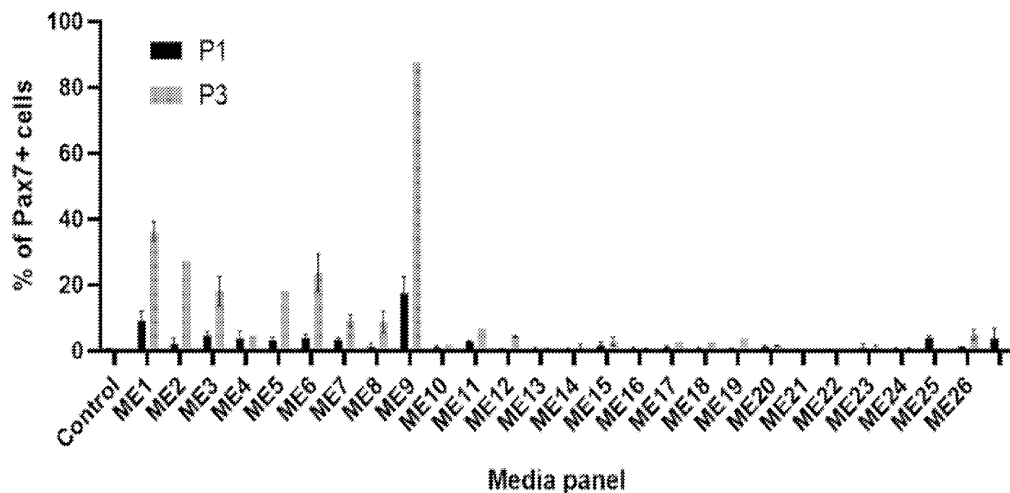


FIG. 3

(57) Abstract: The present disclosure relates to methods for improving myogenic differentiation capacity of a cell line or an immortalized cell line. For example, the present disclosure relates to methods of exposing an immortalized cell line (e.g., an immortalized fibroblast cell line) to culture media comprising signaling pathway agonists, antagonist, or a combination thereof in order to improve differentiation capacity. In another example, the present disclosure relates to methods of improving differentiation capacity of a cell line or an immortalized cell line where the method includes transforming an immortalized cell line with one or more myogenic regulatory factors and exposing the immortalized cell line to culture media comprising signaling pathway agonists, antagonists, or a combination thereof.

[Continued on next page]

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