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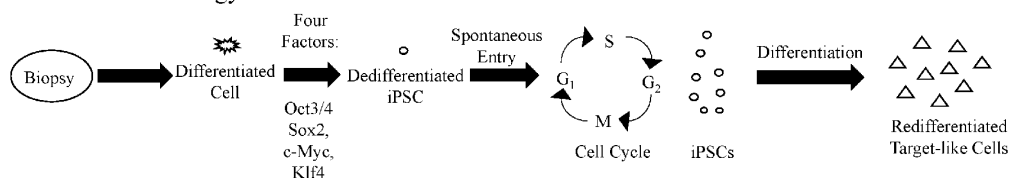
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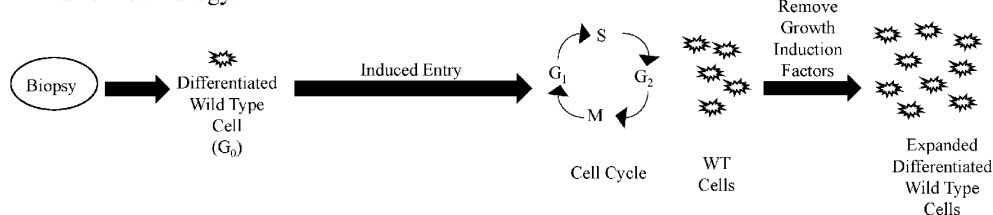
(54) Title: EXPANSION OF HUMAN CELLS AND TISSUES FOR THERAPEUTIC PURPOSES AND METHODS OF USE

FIG. 1

Current Technology:



Novel Technology:



(57) Abstract: The present disclosure provides methods of expanding tissue samples derived from a human being for the purpose of treating certain diseases. The methods include isolation of a small amount of the relevant tissue through biopsy or other methods of tissue acquisition, expanding such tissues ex vivo while retaining natural functioning, and reimplantation of the expanded tissues to alleviating human disease. One example includes ex vivo expansion of human pancreatic islet tissue and reimplantation of the expanded cells into an individual with Type 1 Diabetes for the treatment and long term remission or cure of the disease.

[Continued on next page]

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