

INDUCTION OF PROLIFEROUS PANCREATIC ISLET PRECURSOR CELL-LIKE CELLS
BY TRANSIENT EXPRESSION OF MYCL AND INDUCTION OF DIFFERENTIATION
INTO INSULIN-POSITIVE CELLS

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ABSTRACT

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Establishment of pancreatic islet-like insulin producing cells by inducing differentiation of ES/iPS cells has been reported. However, no technique has been developed so far for producing functional pancreatic islet insulin-positive cells in a large amount. In addition, there are concerns regarding rejection responses, accidental immune responses, etc. The present invention provides pancreatic islet-like cells having Mycl gene introduced thereinto and a method that comprises inducing proliferation of pancreatic islet-like cells by transient expression of Mycl gene and then inducing degradation thereof into insulin producing cells.