Title (en)

METHODS, COMPOSITIONS, AND GROWTH AND DIFFERENTIATION FACTORS FOR INSULIN-PRODUCING CELLS

Title (de)

VERFAHREN, ZUSAMMENSETZUNGEN UND WACHSTUMS- UND DIFFERENZIERUNGSFAKTOREN FÜR INSULINPRODUZIERENDE ZELLEN

Title (fr)

PROCEDES, COMPOSITIONS ET FACTEURS DE CROISSANCE ET DE DIFFERENCIATION POUR CELLULES PRODUCTRICES D'INSULINE

Publication

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Application

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Abstract (en)

[origin: WO03100026A2] A method of converting differentiated non-hormone producing pancreatic cells into differentiated hormone producing cells is disclosed. The method comprises two steps: first, culturing cells under conditions which convert differentiated non-hormone producing cells into stem cells; and second, culturing stem cells under conditions which provide for differentiating stem cells into hormone-producing cells. The invention defines growth and differentiation factors that are presented to the stem cells to result in their differentiation into hormone-producing cells, especially insulin-producing cells. The invention provides a new source of large quantities of hormone producing cells such as insulin-producing cells that are not currently available for therapeutic uses such as the treatment of diabetes.

IPC 1-7

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