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- (71) Applicant (for all designated States except US): **RAPPAPORT FAMILY INSTITUTE FOR RESEARCH IN THE MEDICAL SCIENCES** [IL/IL]; P.O. Box 9697, 31096 Haifa (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ASSADY, Suheir** [IL/IL]; 5070/115, P.O. Box 1589, 16100 Nazareth (IL). **MAOR, Gila** [IL/IL]; Harav Kook Street 24, 26360 Kiriat Motzkin (IL). **AMIT, Michal** [IL/IL]; Yuvalim 261, 20142 Misgav (IL). **ITSKOVITZ-ELDOR, Joseph** [IL/IL]; P.O. Box 9602, 31096 Haifa (IL). **SKORECKI, Karl, L.** [IL/IL]; Mohliver Street 9/2, 26383 Kiryat Shmuel (IL).
- (74) Agent: **WEBB, Cynthia**; Webb & Associates, P.O. Box 2189, 76121 Rehovot (IL).
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(54) Title: INSULIN PRODUCING CELLS DERIVED FROM HUMAN EMBRYONIC STEM CELLS

(57) Abstract: The present invention discloses insulin producing cells derived from human embryonic stem cells. Methods of generating, enriching, selecting, cloning and isolating populations of insulin-producing embryonic cell lines are disclosed. Insulin production in these cells can be glucose responsive, or otherwise regulatable. Advantageously, these insulin-producing cells can be stable cell lines, derived from stable transfectants of hESC. Methods of using these cells, cell populations or cell lines particularly for cell therapy are disclosed.



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