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(71) Applicants *(for all designated States except US)*: **GERON CORPORATION** [US/US]; 230 Constitution Drive, Menlo Park, CA 94025 (US). **ROBARTS RESEARCH INSTITUTE** [CA/CA]; 100 Perth Drive, London, Ontario N6A 5K8 (CA).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BHATIA, Mickie** [CA/CA]; 23 Penrith Crescent, London, Ontario N6G 4M8 (CA). **MADRENAS, Joaquin** [CA/CA]; 406 Regent Street, London, Ontario N5Y 4G9 (CA). **FERBER, Iris, A.** [DE/US]; 1500 Hudson Street #24, Redwood City, CA 94061 (US). **MAJUMDAR, Anish, Sen** [IN/US]; 1055 Manet Drive #3, Sunnyvale, CA 94087 (US).

(74) Agent: **SCHIFF, J., Michael**; Geron Corporation, 230 Constitution Drive, Menlo Park, CA 94025 (US).

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(54) Title: HEMATOPOIETIC CELLS FROM HUMAN EMBRYONIC STEM CELLS

(57) Abstract: This invention provides a system for producing cells of the hematopoietic lineage from embryonic stem cells. Differentiation is conducted in the presence of hematogenic cytokines and other factors listed in the disclosure. The cell population that is obtained is remarkably enriched in CD45 +ve cells, a marker of early hematopoietic precursor with self-renewing capacity. Including a bone morphogenic protein during the differentiation process enhances the ability of the cell population to form secondary colonies. Because of the enormous replicative capacity of embryonic stem cells, this provides an important new commercial source of hematopoietic cells.