

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7645447	Academia Sinica		X in vivo treatment of retinal degenerative disorder				X peripheral blood hematopoietic stem cells		X treatment of retinal degenerative disorder	
US7705204	Agrigenetics Inc.		X Method to produce a high oil phenotype in a plant	X transgenic plant	X Method to produce a high oil phenotype in a plant		X progenitor cells	X plant		
US7754945	Agrigenetics Inc.			X			X progenitor cells	X plant		
US7663020	Agrinomics LLC		X Method for producing a high oil phenotype in a plant		X Method for producing a high oil phenotype in a plant		X progenitor cells	X plant		
US7750205	Agrinomics, LLC	X			X		X progenitor cells			
US7732203	Ajoll University Industry Cooperation Foundation	X			X		X stem cells mesenchymal			

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7820877	Amgen Fremont Inc.					X A method for producing a transgenic mouse from an embryonic stem cell	X mouse embryonic stem (ES) cells.			
US7794705	Amorcyte, Inc.	X	X	X pharmaceutical compositions comprising a chemotactic hematopoietic stem cell product	X method of preparing the composition		X chemotactic hematopoietic stem cell	X blood or from the bone marrow	X treat or repair vascular injury with the composition	
US7682803	Anthrogenesis Corporation		X Method to suppress an immune response			X Method to suppress an immune response	X placental stem cells			
US7700090	Anthrogenesis Corporation	X	X A method of transplanting to a recipient a combined cell population including a number of	X Isolated nucleated placental stem cells			X placental stem cells	X human		
US7666675	AntiCancer, Inc.	X Method to isolate mouse hair follicle stem cells			X Method to isolate mouse hair follicle stem cells		X hair follicle stem cells	X mouse hair follicles		
US7767881	Banyu Pharmaceutical Co., Ltd.	X		X An isolated mouse cell which may be mouse embryonic stem cell mouse comprising a						

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7811820	Baylor College of Medicine	X					X embryonic stem cells	X embryo		X generate smooth muscle cell
US7790458	Becton, Dickinson and Company	X			X Methods for the Expansion of Stem/Progenitor Cells in vitro		X adult stem cells, embryonic stem cells or progenitor cells			
US7776597	Beijing Hua Yuan Bo Chuang Technology Limited	X				X Method of inducing embryonic stem cells into pancreatic cells for producing insulin	X embryonic stem cells	X human, mouse		
US7670596	BioE, Inc.	X Purified population of human fetal blood progenitor cells		X Purified population of human fetal blood progenitor cells			X fetal blood multi-lineage progenitor cells	X human fetal blood progenitor cells		
US7727763	BioE, Inc.   Regents of the University of Minnesota	X					X progenitor cells	X human		
US7832566	Biomet Biologics, LLC	X					X undifferentiated cells, including, but not limited to mesenchymal stem cells			X A separation system that separates and concentrates a fraction of a fluid, such

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7659121	Bios Research Institute, Inc.	X Method to obtain insulin-positive cells or glucagon-positive cells			X Method to obtain insulin-positive cells or glucagon-positive cells		X nesting-positive stem cells	X human		
US7741035	Board of Trustees of the University of Arkansas	X				X	X blood stem cell			
US7687505	Board of Trustees of the University of Illinois		X Method to stimulate proliferation and/or migration of neuronal stem cells in vivo				X neural stem cells or retinal stem cells	X mammalian		
US7824669	Bolder Biotechnology, Inc.				X a method for stimulating the expansion and proliferation of peripheral blood progenitor cells, which may be stem cells					
US7799349	Boston Scientific Scimed, Inc.		X				X hematopoietic stem cells		X method of forming new blood vessels comprising isolating and transplanting autologous bone marrow-mononuclear cells, including stem	
US7732206	California Institute of Technology	X			X		X embryonic stem cell			

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7858578	California Institute of Technology	X			X A method of growing neural stem cells by addition to the growth media of Fucose, galactose, etc.		X neural	X neural		
US7662625	Cancer Research Technology Limited		X in vitro method for determining the differentiation status of a cells			X detecting the differentiation status of cells	X pluripotent stem cells	X mammalian		
US7781423	CanCure Laboratories, LLC		X				X stem/progenitor stem cell	X bone marrow	X Use of compounds to enhance hematopoiesis from exogenous stem/progenitor cells after bone marrow transplantation	
US7776586	CARAG AG	X			X method for isolating progenitor cells having stem cell characteristics from a human body		X cells having stem cell-like characteristics	X human milk		
US7764995	Cardiac Pacemakers, Inc.		X						X treat a heart	X A system configured to treat myocardial infarct, comprising: an
US7828711	Cardiac Pacemakers, Inc.									X an implantable agent delivery device for enhancing migration, implantation,

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7795031	Centre National de la Recherche Scientifique (CNRS)		X				X stem cells of the brain	X mouse	X targeting stem cells of an adult brain of a rodent	
US7794703	CHEN HAI XING	X	X					X Bone marrow	X method for producing protein and delivering the protein comprising inserting a gene to host cells, which may be stem cells and implant to a patient	
US7816136	CHEN-BETTECKEN YU-HUA UNA	X			X A method for growing stem cells by providing a supporter cell					
US7655224	Children's Medical Center Corp. The General Hospital Corp.,Northeastern Ohio Universities COM		X Method for treating a brain tumor				X neuronal stem cells	X neuronal stem cells	X Method for treating a brain tumor	
US7666393	Children's Medical Center Corporation		X Method to assess therapeutic effect of an antiangiogenic agent			X Method to assess therapeutic effect of an antiangiogenic agent	X endothelial progenitor cells			
US7838503	Children's Medical Center Corporation	X			X overcoming replicative senescence of mammalian cells		X any	X mammal		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7745214	CHIU ING-MING	X			X		X neural stem cell			
US7749726	CHUCK ROY S	X				X	X stem cells			
US7674617	College of Medicine, Pochon Cha University Industry -Academic Cooperation Foundation			X Nucleic acid molecule isolated from human embryonic stem cells			X stem cells	X human embryos		
US7785882	Cornell Research Foundation, Inc.	X			X method of isolation and purification of hippocampal neural progenitor cells, from the adult brain for analyses of stem cell growth control		X neuronally restricted progenitor cells	X adult human hippocampus		
US7829332	Cornell Research Foundation, Inc.   New York Medical College	X			X method of inhibiting differentiation of neural stem cells with a purinergic receptor agonist, a method of producing neurons and/or glial cells from neural stem cells by culturing with a purinergic receptor antagonist		X neural stem cells	X mammalian, preferably human		
US7846467	CORONEO MINAS THEODORE	X	X				X ocular stem cells, autologous stem cells		X A method for promoting ocular stem cell proliferation and/or differentiation	X implantable ocular scaffold device for culturing stem cells

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7695963	Cythera, Inc.	X		X In vitro cell culture of embryonic stem cells			X embryonic stem cells	X human		
US7704738	Cythera, Inc.	X In vitro method to produce human definitive endoderm cells			X In vitro method to produce human definitive endoderm cells		X pluripotent stem cells	X human		
US7651684	Cytori Therapeutics, Inc.	X in vitro method to process adipose tissue			X method of making adipose tissue to augment autologous fat transfer		X adipose-derived stem cells			
US7687059	Cytori Therapeutics, Inc.						X adipose-derived stem cell			X device for processing adipose tissue
US771716	Cytori Therapeutics, Inc.		X				X adipose-derived regenerative cells (e.g., stem and/or progenitor cells)	X adipose tissue	X Methods of treating patients by delivering regenerative cells (stem cells) obtained from the adipose tissue t	
US7816138	Dutra; Timothy F.	X			X		X blood stem cells			

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7744869	EBI, LLC		X				X mesenchymal stem cells		X	
US7,875,272	Ethicon, Incorporated		X Method to treat a stroke patient				X cord blood stem cell	X patient generically	X Method to treat a stroke patient	
US7722616	Fidia Advanced Biopolymers S.r.l.		X A method for the treatment of a cartilage lesion by implantation of a graft containing a stem cell				X stem cell		X A method for the treatment of a cartilage lesion by implantation of a graft	
US7723302	Florida Atlantic University		X A method of treating Parkinson's disease in a mammal by mobilizing stem cells into				X mammalian adult stem cell		X A method of treating Parkinson's disease in a mammal by mobilizing stem cells into peripheral blood of the mammal	
US7855075	Gamida Cell Ltd./Hadasit Medical Research Services and Development Ltd.	X		X An ex-vivo expanded cell population			X embryonic stem cells, non-hematopoietic, mesenchymal, bone marrow, neural, and any cell lineage stem cells	X human		
US7655225	Gamida Cell, Ltd.		X Method for hematopoietic stem cell transplantation				X hematopoietic stem cells	X hematopoietic stem and/or progenitor cells transplantation	X Method for hematopoietic stem cell transplantation	

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7841995	General Patent, LLC				X method of stimulating a cellular substance including stem cells by acoustic shock wave					
US7763463	Geron Corporation	X					X pluripotent cells, human embryonic stem cells, germ cells, primary embryonic tissue, or stem cells from fetal or adult tissue		X methods for obtaining populations of dopaminergic neurons from pluripotent stem cells	
US7763464	Geron Corporation				X		X human embryonic stem (hES) cells, pluripotent stem cells			
US7718428	Halozyme, Inc.	X An in vitro method for increasing the number of myeloid progenitors in a cell population					X myeloid progenitor cell			
US7786096	Halozyme, Inc.		X						X A method of inhibiting rejection by the immune system of an antigenic material introduced into an animal, the antigenic material may be stem	
US7704739	Han; Hoon	X Method for culturing mesenchymal stem cells from umbilical cord blood			X Method for culturing mesenchymal stem cells from umbilical cord blood		X mesenchymal stem cells			

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7666615	HemoGenix, Inc.	X Method to determine proliferative status of hematopoietic stem cells				X Method to determine proliferative status of hematopoietic stem cells	X hematopoietic cells			
US7700354	HemoGenix, Inc.	X In vitro method					X hematopoietic cells			
US7709258	HemoGenix, Inc.	X Method to identify a compound that modulates the proliferative status of a population of hematopoietic stem cells				X Method to identify a compound that modulates the proliferative status of a population of	X hematopoietic cells			
US7658951	Henry Ford Health System		X Method for improving cardiac function				X bone marrow stem cell		X improving cardiac function of a diseased heart,	
US7691589	Hiroshima University	X In vitro culturing method					X embryonic or embryonic germ cell	X chicken or		
US7771714	Hiroshima University	X		X chicken differentiable cell culture medium			X a chicken embryonic stem cell or an embryonic germ cell.	X chicken		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7741114	Hoffmann-La Roche, Inc.	X			X		X haematopoietic stem cell			
US7776827	ImmuneRegen Biosciences, Inc.		X			X HOMSPERA stimulates proliferation or differentiation of hematopoietic stem cells				
US7833697	Immunex Corporation	X		X enriched population of stem cells; isolated stem cell that is P1H12+ and AC133+ and that	X method of enriching endothelial stem cells		X endothelial stem cells			
US7718824	Immunopath Profile, Inc.			X A composition comprising a stem cells and amino acids			X stem cells		X Method for treating damaged tissue	
US7682826	Industrial Technology Research Institute			X a composition for maintaining the undifferentiated growth of human embryonic stem cells			X embryonic stem cells	X human embryonic stem cells		
US7754486	Institut de Recherche en Hematologie et Transplantation			X			X endothelial progenitor and myocardiac progenitor cells	X adult human		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7723105	Instituto Nazionale per le Malattie	X A method for growing, expanding, and/or maintaining isolated mammalian cells in vitro			X A method for growing, expanding, and/or maintaining isolated mammalian cells in vitro		X adult stem cell			
US7732202	International Stem Cell Corporation	X			X		X stem cells	X human		
US7781213	Isis Innovation Limited	X		X embryonic stem cell-derived dendritic cells			X embryonic	X human		
US7858346	Japan Science Technology Agency						X embryonic, neural, retinal stem cell		X introducing a DNA or an RNA encoding an Otx2 protein into an stem cell to induce differentiation, for treating retinal diseases by plantation	
US7736892	Kansas State University Research Foundation	X			X		X umbilical cord matrix stem cells			
US7727762	Keiichi Fukuda	X			X		X pluripotent stem cell	X mammalian		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7785596	Keio University		X		X Methods for enhancing survival and/or proliferation of neural stem cells		X neural stem cells	X brain	X Methods for enhancing survival and/or proliferation of neural stem cells in vivo	
US7662385	Keio University Advanced Industrial Science and Technology	X in vitro or in vivo method to inhibit proliferation of a neural stem cells	X in vitro or in vivo method to inhibit proliferation of a neural stem cells				X neural stem cell			
US7666673	Kyoto University	X In vitro method to grow mammalian spermatogonial stem cells			X In vitro method to grow mammalian spermatogonial stem cells		X spermatogonial stem cells	X mammalian sperm cells		
US7718847	Kyoto University		X A method of producing a mouse that harbours spermatogonial stem cells having a desired gene		X A method of producing a mouse that harbours spermatogonial stem cells having a desired gene transferred thereto		X spermatogonial stem cells	X non-human (mouse)		
US7652192	Kyowa Hakko Kirin Co., Ltd.			X a transgenic ungulate embryo	X method to make a transgenic ungulate embryo		X embryonic stem cell or oocyte			
US7736895	Kyowa Hakko Kirin Co., Ltd.	X			X		X embryonic stem cell	X human		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7642091	LEE JAU-NAN LEE TONY TUNG-YING LEE YUTA			X an isolated human trophoblast stem cell			X trophoblast stem cell	X human stem cell		
US7816137	Lifecord Inc. Kim; Young Jin	X			X method for isolating, culturing or inducing differentiation of multipotent progenitor/stem cells from mononuclear cells derived from cord blood		X multipotent progenitor/stem cells	X cord blood-derived mononuclear cells		
US7815921	Ludwid Maximilians Universitat								X A method for selecting a suitable amount of hematopoietic stem cells for transfusion by predicting the risk of diseases	
US7655465	Massachusetts Institute of Technology	X Method of proliferating undifferentiated hair follicle cells in vitro	X Method to deliver undifferentiated follicular stem cells to a patient		X Method for deriving clonal stem cell lines		X somatic hair follicle stem cells.			
US7824912	Massachusetts Institute of Technology	X			X ex vivo expansion of post-natal liver stem cells		X adult hepatic stem cells			
US7641898	Materials Evolution and Development USA, Inc.		X in vivo therapy				X autologous stem cells		X wound healing	

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7794706	Medivas, LLC		X				X mesenchymal stem cells, tissue-specific progenitor cells, germ-layer stem cells, and pluripotent stem cells	X bone marrow	X a methods for promoting restoration of tissue at a lesion site	X wound dressings, having allogenic or autologous precursor cells, such as
US7749555	Medtronic, Inc Warsaw Orthopedic, Inc.	X			X		X mesenchymal stem cells, pluripotent stem cells, embryonic stem cells			
US7759542	National Yang-Ming University			X			X embryonic stem cell	X mouse		
US7691629	Neuralstem, Inc.	X In vitro culturing method			X Culture of human neural stem cells		X neural stem cells	X human		
US7858628	Neuralstem, Inc.		X				X dentate gyros of the hippocampus, Differentiating hippocampal human stem cells	X mouse, human	X A method of inhibiting neuronal death or for inducing proliferation and differentiation of a neuronal progenitor cell	
US7811822	NeuroNova AB	X	X				X stem cells originating from a tissue such as pancreas, skin, muscle, adult bone marrow, liver, umbilical cord tissue and umbilical cord blood	X pancreas, skin, muscle, adult bone marrow, liver, umbilical cord tissue and umbilical cord blood	X modulating the activity of an S1P, LPA, EDG receptor on an adult neural stem cell to produce progeny that can replace damaged or missing neurons by	

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7795202	Neurorepair, Inc.		X				X adult stem cell., pre-hematopoietic stem cell, a hematopoietic stem cell, an endothelial cell and a perivascular cell		X method of treating NCS disorder by stimulating progenitor cell or stem cell proliferation, migration and differentiation	
US7819856	Nexeon Medsystems, Inc.		X							X apparatus and methods for injecting and embedding autologous body material.
US7842304	Nexeon Medsystems, Inc.									X Apparatus for spanning an injured region of a nerve pathway
US7648833	NOF Corporation	X					X embryonic stem cells	X murine		X
US7824712	Nora Therapeutics, Inc.		X				X peripheral blood stem cells		X A method for reducing the likelihood of spontaneous abortion and the implantation failure during an assisted reproduction comprising	
US7790039	Northwest Biotherapeutics, Inc.	X			X methods for enriching a heterogenous mixture of bone marrow or blood constituents for stem cells		X CD34+ cells	X bone marrow		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7727534	Oncolytics Biotech Inc.		X			X	X hematopoietic stem cells			
US7749758	Ono Pharmaceutical Co., Ltd./Honjo; Tasaku	X			X		X neural stem cells			
US7741274	Peptera Pharmaceuticals Ltd.		X			X	X haematopoietic stem cell			
US7718376	Peter MacCallum Cancer Institute/Medvet Science Pty Ltd.	X Method to identify a stem cell			X A method of isolating a stem cell comprising obtaining a cell population comprising stem cells	X Method to identify a stem cell	X stem cell			
US7838726	Phylonix Pharmaceuticals, Inc.		X			X methods of cellular analysis by introducing heterologous cells, including stem cells, into fish	X totipotent, pluripotent or unipotent stem cells	X any		
US7678573	Pluristem Ltd.	X Method to prepare conditioned media from confluent stromal cells			X Method to prepare conditioned media from confluent stromal cells		X hemopoietic stem cell			

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7691985	Poniard Pharmaceuticals, Inc.		X in vivo therapy				X stem cell	X human	X treating a bone-associated cancer	
US7781215	President and Fellows of Harvard College Imperial Cancer Research Technology Ltd.				X A method for promoting one or more of growth, differentiation, or survival of a mammalian embryonic progenitor cell	X A method for promoting one or more of growth, differentiation, or survival of a mammalian	X embryonic mammalian neural progenitor cell	X embryonic mammalian neural progenitor cell		
US7795022	Purdue Research Foundation		X		X Method of preparing a vascularization enhanced tissue graft constructs by seeding the matrix composition in vitro with endothelial cells or endothelial cell precursors (e.g., progenitor cells or stem cells)					X A vascularization enhanced tissue graft constructs prepared by seeding the
US7815686	Purdue Research Foundation  Clarian Health Partners, Inc.						X	X smooth muscle	X use in repairing diseased or damaged tissues	X submucosa tissue graft construct
US7829296	Ramot at Tel-Aviv University Ltd.	X				X method of identifying mesenchymal stem cell by identifying in a biological sample a cell				
US7659442	Regeneron Pharmaceuticals, Inc.		X Method for generating a transgenic mouse		X Method to generate a transgenic mouse		X murine embryonic stem	X mouse		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7820439	Reliance Life Sciences PVT Ltd.	X					X pluripotent stem cells such as murine embryonic stem cells or human embryonic stem cells	X	X A method of generating a differentiated neural cell population from mammalian pluripotent stem cells	
US7674620	Reliance Life Sciences Pvt. Ltd.	X Method to expand differentiated neural cells		X Method to expand differentiated neural cells	X Method to expand differentiated neural cells		X pluripotent stem cells	X primate pluripotent stem cells		
US7811817	Reliance Life Sciences Pvt. Ltd.	X		X An isolated pluripotent human embryonic stem cell line	X isolation, maintenance and propagation of human embryonic stem cells (hESC) from the inner cell mass of surplus embryos		X embryonic stem cells	X inner cell mass of surplus embryos		
US7790456	Rheinische Friedrich-Wilhelms-Universitat	X			X process for cultivating and/or proliferating undifferentiated stem cells		X any	X any		
US7700352	Riken	X In vitro culturing method			X Method to make clonal population of stem cells		X pluripotent stem cells	X mouse		
US7709255	Riken	X A method for increasing the yield of neural precursor cells in vitro or ex vivo			X A method for increasing the yield of neural precursor cells in vitro or ex vivo		X embryonic cells	X human		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7807461	RNL Bio Co., Ltd	X			X producing mesenchymal stem cells, by culturing human adipose tissue-derived pellets in a medium containing N-acetyl L-cysteine, differentiating the multipotent stem cells into nerve cells, etc.		X multipotent adult stem cells	X human adipose tissue		
US7833785	SEN ARINDOM KALLOS MICHAEL SIBEHIE LEO A	X			X A method for chemically detaching mammalian cells, including stem cells, from a physical surface, dissociating cell aggregation		X embryonic stem cells or pluripotent stem cells	X mammalian		
US7754479	Seoul National University Industry Foundation Avicore Biotechnology Institute Inc.	X			X		X stem cells	X spermatogonial		
US7858296	Smith & Nephew, Inc.	X			X filtration method of preparing a cell concentrate, including stem cell concentrate.		X mesenchymal stem cells, multipotent stem cell, pluripotent stem cell and totipotent stem cell,	X bone marrow		
US7825083	Spine Wave, Inc.		X				X autologous mesenchymal stem cells		X An in situ method of treating a wound in synovial joint tissue further including accessing pluripotential mesenchymal stem	
US7776592	STC.UNM	X	X	X the purified renal stem cells			X human renal stem cells	X human		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7846898	Stem Cell Therapeutics Corp.	X use the agents in cell culture for transplantation			X A method of increasing neural stem cell proliferation in vitro		X neural			
US7704737	Stem Cell Therapeutics Corp.	X Method of producing oligodendrocytes from mammalian multipotent neural stem cells			X Method of producing oligodendrocytes from mammalian multipotent neural stem cells		X multipotent neural stem cells	X mammalian		
US7723047	Stemcell Technologies Inc.   British Columbia Cancer Agency Branch	X A method of enriching luminal restricted colony forming cells in a sample containing mammary cells that includes stem cells			X A method of enriching luminal restricted colony forming cells in a sample containing mammary cells that includes stem cells		X stem cell			
US7829335	Sumitomo Electric Industries, Ltd.	X				X selectively differentiation-induces mesenchymal stem cells to osteoblasts	X mesenchymal stem cells			
US7790455	Technion Research & Development Foundation Ltd.	X			X method of maintaining embryonic stem cells in an undifferentiated state		X embryonic stem cells			
US7641897	The Board of Trustees of the Leland Stanford Junior University	X in vitro			X method to expand mouse embryonic stem cells		X mouse embryonic	X mouse		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7670838	The Board of Trustees of the Leland Stanford Junior University	X In vitro method for promoting or inhibiting neurogenesis	X Method for promoting or inhibiting neurogenesis in a rat				X neural progenitor cells	X Neural progenitor cells		
US7749754	The Board of Trustees of the Leland Stanford Junior University	X			X		X myogenic progenitor cells	X human or mouse		
US7767410	The Board of Trustees of the Leland Stanford Junior University	X			X Identification and isolation of acute myeloid leukemia stem cells	X for cancer diagnosis	X cancer stem cells, acute myeloid leukemia stem cells			
US7781179	The Board of Trustees of the Leland Stanford Junior University	X				X classification or clinical staging of transitional cell carcinomas according to the stem cells that are present	X Transitional cell cancer stem cells	X patient generically		
US7811815	The Board of Trustees of the Leland Stanford Junior University		X				X myeloid progenitor subsets	X myeloid progenitor subsets are isolated from any source of hematopoietic progenitor cells, such as fetal, neonatal, juvenile or	X methods for enhancing myeloid function through transplantation or infusion of allogeneic or xenogeneic myeloid progenitor cells,	
US7816088	The Board of Trustees of the Leland Stanford Junior University	X			X A method of selecting for human leukemia stem cells		X leukemic stem cells	X human		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7838539	The Board of Trustees of the Leland Stanford Junior University		X				X long-term hematopoietic stem cells (LTHSCs) and short-term hematopoietic stem cells	X bone marrow-derived stem cells	X A method for treating a disorder comprising administering pure nicotine receptor agonist to stimulate hematopoietic stem cells	
US7754202	The Board of Trustees of the Leland Stanford Junior University  University of Washington	X				X	X hematopoietic cells	X mammalian		
US7695967	The Board of Trustees of the University of Illinois	X In vitro method to culture stem cells			X Method to grow stem cells		X stem cells			
US7803364	The Cleveland Clinic Foundation	X		X An isolated and enriched population of human multipotent neural stem cells that express a			X multipotent neural stem cells	X embryonic or adult CNS tissue	X treating a central nervous system disorder with the stem cells	
US7776334	The General Hospital Corporation	X	X		X enhancing the growth and maintenance of hematopoietic stem cells both in vivo and in vitro		X hematopoietic stem cells	X bone marrow	X	
US7767202	The Johns Hopkins University		X				X hematopoietic stem cells	X an autologous bone marrow graft	X Modulation of systemic immune responses by transplantation of hematopoietic stem cells transduced with genes	

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7799528	The Johns Hopkins University	X	X			X method of determining whether a population of human cells comprises CD34+CD38-	X hematopoietic stem cells	X human	X A method of reconstituting hematopoiesis with the cultured cell suspension	
US7754483	The Penn State Research Foundation	X			X		X pluripotent embryonic stem cells			
US7745113	The Regents of the University of California	X			X		X progenitor cell	X mammalian		
US7776361	The Regents of the University of California		X							X bone graft material for stimulating a progenitor cell
US7776593	The Regents of the University of California	X			X	a method for identifying and purifying endocrine stem cells, methods of inducing differentiation of cells				
US7833968	The Regents of the University of California		X						X pharmaceutical composition for inducing a stem cell to differentiate into osteoblast	

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7713710	The Regents of the University of Michigan	X A method of diagnosing the presence of solid tumor stem cells in a patient				X A method of diagnosing the presence of solid tumor stem cells in a patient	X tumor stem cell			
US7754206	The Regents of the University of Michigan		X				X stem cells		X	
US7850961	The Regents of The University of Michigan						X tumor stem cell	X solid breast cancer tumor	X A method of targeting solid tumor stem cells in a solid breast cancer tumor by antibody	
US7723112	The Regents of the University of Michigan OncoMed Pharmaceuticals, Inc.	X A method for obtaining from a colon tumor a cellular composition comprising colon cancer stem cells			X A method for obtaining a cellular composition comprising colon cancer stem cells		X colon cancer stem cells			
US7838291	The Rogosin Institute	X			X method of inhibiting differentiation stem cells in a non-differentiated by the entrapment		X embryonic stem cells	X mammalian		
US7838290	The Scripps Research Institute	X		X isolated stem cell population comprising human hematopoietic stem cells and endothelial			X mammalian, adult bone marrow-derived, lineage negative hematopoietic stem cell	X mammalian, bone marrow		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7662392	The Trustees of Columbia University in the City of New York		X method of increasing trafficking of bone marrow-derived endothelial progenitor cells				X endothelial progenitor cells		X method of increasing trafficking of bone marrow-derived endothelial progenitor cells to ischemic myocardium in a subject	
US7709442	The Trustees of Columbia University in the City of New York		X A method of producing connective tissue in a subject		X A method of producing connective tissue in a subject		X adult stem cells			
US7842673	The Trustees of Columbia University in the City of New York					X Delivering DNA/RNA from donor cell (stem cell) to target cell	X human mesenchymal stem cell			
US7704493	The Trustees of Columbia University in the City of New York  The Research Foundation of State University of New York			X isolated mesenchymal stem cells			X mesenchymal stem cell			
US7794702	The Trustees of Columbia University in the City of New York  The Research Foundation of State University of New York		X	X composition comprising stem cells incorporated with a gene to be delivered			X mesenchymal stem cell		X a method of expressing a functional gene product in a syncytial structure by administering stem cells that have been	
US7727550	The UAB Research Foundation				X					

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7708977	The United States of America as represented by the Department of Health and Human Services	X Method to diagnose decreased vascular function in a subject				X Method to diagnose decreased vascular function in a subject	X endothelial progenitor cells	X blood		
US7816140	The United States of America as represented by the Department of Veterans Affairs	X	X				X hematopoietic stem cell	X	X enhancing bone growth and bone repair; hematopoietic stem cells as vehicles for delivering and expressing therapeutic proteins; methods for delivering osteogenic growth	
US7781214	The University Court of the University of Edinburgh	X			X method for generating a culture that is purified or enriched in neural progenitor cells		X Pluripotent embryonic stem cells, embryonic stem cells, embryonic germ cells, embryonic carcinoma cells			
US7645917	The University of Hong Kong		X in vivo method of producing a transgenic mouse		X a transgenic mouse		X murine embryonic cells			
US7795023	The University of Southern California	X			X method for the identification, isolation and/or generation of cytokine-responsive stem cells using a marker		X pre-mesenchymal, pre-hematopoietic stem cells	X mammal		
US7811819	The University of Washington	X		X cryopreserved human embryonic stem (ES) cell composition	X A method for the cryopreservation of human embryonic stem cells		X human embryonic stem	X primate tissues		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7842502	Tigenix N.V.	X			X An in vitro method of inducing or restoring differentiation of a mesenchymal stem cell		X mesenchymal stem cell			
US7824671	Tissueteck, Inc.		X				X adult or embryonic stem cell		X A method for treating a retinal disease, comprising inserting in a subretinal space of a human a composite comprising non-immortalized human	
US7683236	Trustees of the University of Pennsylvania	X Method to prepare a non-primate mammalian blastocyst capable of developing into a live-born animal			X Method to prepare a non-primate mammalian blastocyst capable of developing into a live-born animal		X non-primate mammalian embryonic stem cell	X non-primate mammalian		
US7704736	Trustees of the University of Pennsylvania	X Method to derive oocytes from mouse embryonic stem cells			X Method to derive oocytes from mouse embryonic stem cells		X embryonic stem (ES) cells	X mouse		
US7671018	University of Delaware		X Method to accelerate cartilage repair				X mesenchymal stem cell	X mammal	X accelerating cartilage repair	
US7858585	University of Delaware	X			X method growing stem cells, comprising: forming a hydrogel comprising cells and a peptide			X human		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7687266	University of Edinburgh	X Method for keeping a mouse or human stem cell in a pluripotent state			X Method for keeping a mouse or human stem cell in a pluripotent state		X murine or human pluripotent cells	X mouse or human pluripotent stem cell		
US7651678	University of Kentucky Research Foundation		X in vivo method to impair cancerous progenitor cells				X progenitor cells	X bone marrow	X bone marrow	
US7745215	University of Louisville Research Foundation, Inc.		X		X		X hematopoietic stem cells			
US7732126	University of Maryland, Baltimore	X			X		X bone marrow stromal stem cells	X animal		
US7807462	University of Medicine and Dentistry of New Jersey	X					X adult human mesenchymal stem cell	X human		
US7691415	University of South Florida		X A method for reducing the severity of graft-versus-host disease (GvHD) caused by bone marrow				X mesenchymal progenitor cells	X mammal mesenchymal progenitor cells	X A method for reducing the severity of graft-versus-host disease (GvHD) caused by bone marrow transplantation in a mammal	

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7691821	University of South Florida		X In vivo method				X hematopoietic stem cells in peripheral blood	X patient generically	X Method to increase the number of hematopoietic stem cells	
US7744927	University of Southern California		X			X	X hematopoietic pluripotent progenitor cell			
US7776828	University of Southern California		X		X improved method of pluripotent stem cell transplantation		X pluripotent stem cells	X bone marrow	X improved method of pluripotent stem cell transplantation	
US7741079	University of the Queensland	X			X		X progenitor cell	X mammalian		
US7850960	University of Washington Robarts Research Institute		X increasing hematopoietic stem cells in vivo by catenin signal-, Notch signal- or Hedgehog signal-promoting agents				X hematopoietic progenitor/stem cells, mesenchymal progenitor/stem cells, mesodermal progenitor/stem cells, muscle progenitor/stem		X immune related disease, a mesenchymal/mesoderm degenerative disease, or a neurodegenerative disease	
US7771980	Vivalis	X					X avian embryonic stem cells, non adherent stem cells, adherent stem cells	X		

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7682828	Whitehead Institute for Biomedical Research			X A primary somatic cells containing an embryonic stem cell gene			X somatic stem cell	X somatic or adult tissue		
US7767453	Whitehead Institute for Biomedical Research	X			X methods for ex vivo expansion of hematopoietic stem cells		X hematopoietic stem cells	X bone marrow		
US7807464	Whitehead Institute for Biomedical Research	X	X implantation		X method for culturing and isolating hematopoietic stem cells using an angiopoietin-like protein and stem cell factor (SCF).		X hematopoietic stem cells	X	X	
US7732152	Wisconsin Alumni Research Foundation	X			X		X embryonic stem cells			
US7781216	Wisconsin Alumni Research Foundation	X			X A method for isolating a primate embryonic stem cell line		X Primate embryonic stem cells	X embryo		
US7811821	Wisconsin Alumni Research Foundation	X					X embryonic stem	X embryo	X culture of dendritic cells from human embryonic stem (ES) cells to make cellular vaccine	

Publication Number	Assignee/Applicant Name	In vitro	In vivo	Composition	Method of making	Use/diagnostic use	Cell type	Tissue of origin	Therapy	Device
US7749710	Xintela AB	X			X		X mesenchymal stem cells			
US7824670	Yeda Research and Development Co., Ltd.	X	X		X method for the preparation of differentiated nerve and associate glial cells for transplantation by using IL6R/IL6 chimera ex-vivo to stimulate neural stem cells		X embryonic or neonatal mammal or adult neural stem cells	X human	X method for inducing neuron generation, wherein progenitor cells of embryonic, neonatal or adult origin are treated with IL6R/IL6 chimera in-	
US7772001	Yissum Research Development Company Of the Hebrew University of Jerusalem	X		X differentiated stem cells			X embryonic cells	X human		
US7838493	Yissum Research Development Company of the Hebrew University of Jerusalem Medical Research Fund at the Tel Aviv Sourasky Medical Center	X	X		X a method of priming of hematopoietic stem cells pre-transplant by contacting the peptide		X hematopoietic stem cells	X human	X AChE-R-derived peptide may be used in the pre-transplant priming of hematopoietic stem cells for treatment of conditions that induce	
US7786082	Zoltan Laboratories LLC		X				X adult or embryonic stem cells and stem cell-derived progenitor cells in vivo	X mammal	X method to enhance proliferation and survival of stem cells	
US7790685	Zoltan Laboratories LLC		X				X mesenchymal or hematopoietic stem cells and/or progenitor cells	X bone marrow	X use of placental alkaline phosphatase alone or with human transferrin and, to enhance the proliferation and survival of	

