

Recent patent applications in hematopoietic stem cells

Patent number	Description	Assignee	Inventor	Priority application date	Publication date
WO 2013053765	A new polynucleotide comprising a hematopoietic stem cell-specific transcriptional regulatory sequence, and mucosa-associated lymphoid tissue; useful for producing a transgenic nonhuman animal.	Proyecto de Biomedicina Cima (Pamplona, Spain), Consejo Superior de Investigaciones Cientificas (Madrid), Universidad de Salamanca (Salamanca, Spain)	Cobaleda Hernandez CJ, Fontan Gabas L, Martinez-Climent JA, Sanchez-Garcia I, Vicente-Duenas	10/11/2011	4/18/2013
WO 2013050656	A method for modifying the cell surface of a hematopoietic stem cell and/or its population, comprising treating the cell and/or its population with pronase and/or a pronase-like enzyme.	Suomen Punainen Risti Veripalvelu (Helsinki)	Hakkarainen T, Kerkelae E, Nystedt J, Partanen J	10/5/2011	4/11/2013
WO 2013051520	A tool with a main portion formed from cold-resistant material, and a living cell-holding portion formed from cold-resistant material; useful for cryopreserving living cells including stem cells (e.g., hematopoietic stem cells).	Kitazato Biopharma Co. Ltd. (Fuji, Japan)	Inoue F	10/3/2011	4/11/2013
WO 2013049863	A new transgenic mouse with a genome made up of a nucleic acid construct comprising at least one transgene linked to a promoter effective for the expression of human leukocyte antigen death receptor 4 (DR4), which is capable of developing a functional human immune system upon infusion of human leukocyte antigen-matched hematopoietic stem cells.	Secretary of the US Navy (Silver Spring, MD, USA)	Brumeanu T, Casares SA	9/26/2011	4/4/2013
WO 2013049615	A method of increasing the transduction efficiency of cells cultured with a retrovirus, comprising culturing the cells and the retrovirus in a culture medium that comprises a compound that increases prostaglandin EP receptor signaling; useful for culturing hematopoietic stem or progenitor cells.	Bluebird Bio (Cambridge, MA, USA)	Bassan AI, Hefner GC	9/30/2011	4/4/2013
WO 2013048546	A bioreactor system comprising a reaction chamber comprising an interior, a magnetizable agitator and an adjustable magnetic field; useful for separating cells based on cell markers, growing cells and engineered tissue, e.g., hematopoietic stem cells and immunocytes.	Zhang Y	Wang Y, Zhang M, Zhang Y	3/29/2011	4/4/2013
WO 2013045639	A pseudotyped viral vector particle for transferring biological material into cells and treating a hematopoietic or an autoimmune disease, where the vector particle comprises at least: (i) chimeric envelope glycoprotein which comprises or consists in a fusion of the transmembrane and extracellular domain of a baboon endogenous retrovirus (BaEV) envelope glycoprotein and the cytoplasmic tail domain of a murine leukemia virus (MLV) envelope glycoprotein; or (ii) a modified BaEV envelope glycoprotein where the cytoplasmic tail domain is devoid of the fusion inhibitory R peptide.	National Institute of Health and Medical Research (Paris); École Normale Supérieure de Lyon (Lyon, France)	Cosset F, Girard-Gagnepain A, Lavillette D, Verhoeyen E	9/29/2011	4/4/2013
WO 2013043196	A vector comprising a left retroviral locus control region (LTR), hematopoietic cell expression control sequence, an ubiquitous expression control sequence and a right retroviral LTR; useful for, e.g., treating hemoglobin sickle cell disease.	Bluebird Bio (Cambridge, MA, USA)	Beuzard Y, Leboulch P, Negre O, Payen E	9/23/2011	3/28/2013
WO 2013040644	A method for extending the <i>ex vivo</i> viability of hematopoietic progenitor cells (HPC) and hematopoietic stem cell (HSC) population, or culturing or expanding their population, comprising culturing HPC and/or HSC populations in the presence of ficolin-1.	Cytomatrix Pty. Ltd. (Geelong, Victoria, Australia)	Kirkland MA, Tursky ML	9/22/2011	3/28/2013
KR 2013017309	A composition comprising an antisense oligonucleotide sequence which is microRNA-449a of Seq ID No. 1, used in a pharmaceutical composition for promoting chondrogenesis from stem cells.	Yonsei University Industry-Academic Cooperation Foundation (Seoul)	Jung HS, Lee JW, Paik SI	8/10/2011	2/20/2013
WO 2013051521	A tool comprising a cell-holding unit comprising a main portion and a cell holding portion, and a cylindrical housing unit; useful for cryopreserving a cell chosen from a stem cell (e.g., hematopoietic stem cell and pluripotent stem cell), eggs (e.g., ovum of mammal), embryo, and sperm, that is useful for treating infertility in a human.	Kitazato Biopharma Co. Ltd. (Fuji, Japan)	Inoue F	10/4/2011	10/1/2012

Source: Thomson Scientific Search Service. The status of each application is slightly different from country to country. For further details, contact Thomson Reuters (Search Service), 1925 Ballenger Avenue, Suite 400, Alexandria, VA 22314, USA. Tel: 1 (800) 337-9368 (<http://thomsonreuters.com/>).