

**L'article CSMO s'appuie sur les publications suivantes :**

- ALBERA C, POLAK JM, JANES S, GRIFFITHS MJD, ALISON MR, WRIGHT NA et al. (2005). Repopulation of human pulmonary epithelium by bone marrow cells: a potential means to promote repair. *Tissue Eng.*, 11(7), 1115-1121.
- ALTMAN J (1963). Autoradiographic investigation of cell proliferation in the brains of rats and cats. *Anat. Rec.*, 145, 573-91.
- ALTMAN J (1969). Autoradiographic and histological studies of postnatal neurogenesis. IV. Cell proliferation and migration in the anterior forebrain, with special reference to persisting neurogenesis in the olfactory bulb. *J. Comp. Neurol.*, 137, 433-57.
- ALTMAN J, DAS GD (1965). Autoradiographic and histological evidence of postnatal hippocampal neurogenesis in rats. *J. Comp. Neurol.*, 124, 319-35.
- AMOH Y, LI L, KATSUOKA K, PENMAN S, HOFFMAN RM (2005). Multipotent nestin- positive, keratin-negative hair-follicle-bulge stem cells can form neurons. *Proc. Natl. Acad. Sci. USA*, 102, 5530-5534.
- ANJOS-AFONSO F, SIAPATI E, BONNET D (2004). In vivo contribution of murine mesenchymal stem cells into multiple cell-types under minimal damage conditions. *J. Cell. Sci.*, 117, 5655-5664.
- ANVERSA P, KAJSTURA J, LERI A, BOLLI R (2006). Life and death of cardiac stem cells: a paradigm shift in cardiac biology. *Circulation*, 113, 1451-1463.
- Appendix C: human embryonic stem cells and human embryonic germ cells. In: *Stem Cell Information [en ligne]*. 2006 (modifiée en Octobre 2006), U.S.A.: Department of Health and Human Services, [<http://stemcells.nih.gov/info/scireport/appendixc>] (consulté le 28 mai 2008).
- Appendix E: stem cell markers. In: *Stem Cell Information [en ligne]*. 2006 (modifiée en Octobre 2006), U.S.A.: Department of Health and Human Services, [<http://stemcells.nih.gov/info/scireport/appendixe>] (consulté le 28 mai 2008).
- ASAHARA T, KALKA C, ISNER J (2000). Stem cells therapy and gene transfer for regeneration. *Gene Ther.*, 7, 451-457.
- BACH FH, ALBERTINI RJ, ANDERSON JL (1968). Bone-marrow transplantation in a patient with the Wiskott-Aldrich syndrome. *Lancet*, 2, 1364-1366.
- BACHOUD-LEVI AC, GAURA V, BRUGIERES P, LEFAUCHEUR J-P, BOISSE M-F, MAISON P et al. (2006). Effect of fetal neural transplants in patients with Huntington's disease 6 years after surgery: a long-term follow-up study. *Lancet Neurol.*, 5, 303-309.
- BADIAVAS EV, ABEDI M, BUTMARC J, FALANGA V, QUESENBERRY P (2003). Participation of bone marrow derived cells in cutaneous wound healing. *J. Cell. Physiol.*, 196, 245-250.
- BAGNIS C, CHABANNON C, MANNONI P (1999). Beta-galactosidase marker genes to tag and track human hematopoietic cells. *Cancer Gene Ther.*, 6(1), 3-13.
- BAMBAKIDIS N, MILLER RH (2004). Transplantation of oligodendrocytes precursors and sonic hedgehog results in improved function and white matter sparing in the spinal cords of adults rats after contusion. *Spine J.*, 4, 16-26.
- BARILE L, MESSINA E, GIACOMELLO A, MARBAN E (2007). Endogenous cardiac stem cells. *Prog. Cardiovasc. Dis.*, 50(1), 31-48.
- BARTUNEK J, CROISSANT JD, WINJS W, GOFFLOT S, DE LAVAREILLE A, VANDERHEYDEN M et al. (2006). Pretreatment of adult bone marrow mesenchymal stem cells with cardiomyogenic growth factors and repair of chronically infarcted myocardium. *Am. J. Physiol. Heart Circ. Physiol.*, 292, 1095-1104.
- BAYER SA (1982). Changes in the total number of dentate granule cells in juvenile and adult rats: a correlated volumetric and 3H-thymidine autoradiographic study. *Exp. Brain Res.*, 46, 315-323.

- BELTRAMI A, BARLUCCI L, TORELLA D, BAKER M, LIMANA F, CHIMENTI S et al. (2003). Adult cardiac stem cells are multipotent and support myocardial regeneration. *Cell*, 114, 763-776.
- BLACK LL, GAYNOR J, GAHRING D, ADAMS C, ARON D, ARMAN S et al. (2007). Effect of adipose-derived nucleated cell fractions on tendon repair in a collagenase-induced tendinitis model. *Vet. Ther.*, 8(4), 272-284.
- BLOT S, SAMPAOLESI M, D'ANTONA G, GRANGER N, TONLORENZI R, INNOCENZI A et al. (2006). Mesoangioblast stem cells ameliorate muscle function in dystrophic dogs. *Nature*, 444, 574-579.
- BRAZELTON TR, ROSSI FMV, KESHET GI, BLAU HM (2000). From marrow to brain: expression of neuronal phenotypes in adult mice. *Science*, 290, 1775-1779.
- CALVI L, ADAMS GB, WEIBRECHT KW, WEBER JM, OLSON DP, KNIGHT MC et al. (2003). Osteoblastic cells regulate the hematopoietic stem cell niche. *Nature*, 425, 841-846.
- CANTLEY LG (2005). Adult stem cells in the repair of the injured renal tubule. *Nat. Clin. Prac. Nephrol.*, 1, 22-32.
- CARTER R, ABRAMS-OGG ACG, DICK JE, KRUTH SA, VALLI VE, KAMEL-REID S et al. (1992). Autologous transplantation of canine long term marrow culture cells genetically marked by retroviral vectors. *Blood*, 79(2), 356-364.
- CALLEN GA, LITTLE MH (2006). Tissue-specific stem cells-concise review. *Stem Cells*, 24(1), 3-12.
- CAVAZZANA-CALVO M, HACEIN-BEY S, DE SAINT BASILE G, GROSS F, YVON E, NUSBAUM P et al. (2000). Gene therapy of human severe combined immunodeficiency (SCID)-X1 disease. *Science*, 28(288), 669-672.
- CHAMBERLAIN JS (2006). A move in the right direction. *Nature*, 444, 552-553.
- CHRISTOV C, CHRETIEN F, ABOU-KHALIL R, BASSEZ G, VALLET G, AUTHIER F-J et al. (2007). Muscle satellite cells and endothelial cells: close neighbors and privileged partners. *Mol. Biol. Cell*, 18, 1397-1409.
- CHUDAKOV DM, LUKYANOV S, LUKYANOV KA (2005). Fluorescent proteins as a toolkit for in vivo imaging. *Trends Biotechnol.*, 23(12), 605-613.
- DAHLGREN LA (2006). Use of adipose derived stem cells in tendon and ligament injuries. *Am. Coll. Vet. Surg. Symp. Equine Small Anim. Proc.*, 150-151.
- DAWN B, STEIN AB, URBANEK K, ROTA M, WHANG B, RASTALDO R et al. (2005). Cardiac stem cells delivered intravascularly traverse the vessel barrier, regenerate infarcted myocardium, and improve cardiac function. *Proc. Natl. Acad. Sci. USA*, 102, 3766-3771.
- DAS AV, JAMES J, RAHNENFUHRER J (2005). Retinal properties and potential of the adult mammalian ciliary epithelium stem cells. *Vision Res.*, 45, 1653-1666.
- EMSLIE-SMITH A, ENGEL A (1990). Microvascular changes in early and advanced dermatomyositis: a quantitative study. *Ann. Neurol.*, 27, 343-356.
- ENGELHARDT JF (2001). Stem cell niches in the mouse airway. *Am. J. Resp. Cell Mol. Biol.*, 24(6), 649-652.
- FALANGA V, IWAMOTO S, CHARTIER M, YUFIT T, BUTMARC J, KOUTTAB N et al. (2007). Autologous bone marrow-derived cultured mesenchymal stem cells delivered in a fibrin spray accelerate healing in murine and human cutaneous wounds. *Tissue Eng.*, 13(6), 1299-1312.
- FEDAK PW, WEISEL RD, VERMA S, MICKLE DAG, LI RK (2003). Restoration and regeneration of failing myocardium with cell transplantation and tissue engineering. *Semin. Thorac. Cardiovasc. Surg.*, 15, 277-286.

- FERNANDES A, KING LC, GUZ Y, STEIN R, WRIGHT CVE, TEITELMAN G (1997). Differentiation of new-insulin-producing cells is induced by injury in adult pancreatic islets. *Endocrinology*, 138, 1750-1762.
- FIEGEL HC, LANGE C, KNESER U, LAMBRECHT W, ZANDER AR, ROGIERS X et al. (2006). Fetal and adult liver stem cells for liver regeneration and tissue engineering. *J. Cell. Mol. Med.*, 10(3), 577-587.
- FIORETTO P, STEFFES MW, SUTHERLAND DE, GOETZ FC, MAUER M (1998). Reversal of lesions of diabetic nephropathy after pancreas transplantation. *N. Engl. J. Med.*, 339, 69-75.
- FODOR WL (2003). Tissue engineering and cell based therapies, from the bench to the clinic: the potential to replace, repair and regenerate. *Reprod. Biol. Endocrinol.*, 1, 102-108.
- FORTIER LA (2005). Stem cells: classifications, controversies, and clinical applications. *Vet. Surg.*, 34, 415-423.
- GAGE FH, COATES PW, PALMER TD, KUHN HG, FISHER LJ, SUHONEN JO et al. (1995). Survival and differentiation of adult neuronal progenitor cells transplanted to the adult brain. *Proc. Natl. Acad. Sci. USA*, 92, 11879-11883.
- GARGETT CE (2007). Uterine stem cells: what is the evidence? *Hum. Reprod. Update*, 13(1), 87-101.
- GHAZIZADEH S, TAICHMAN LB (2005). Organization of stem cells and their progeny in human epidermis. *J. Invest. Dermatol.*, 124, 367-372.
- GINGERICH DA, ADAMS C, GARHING D, ARON D, GAYNOR J, BLACK LL et al. (2007). Effect of adipose-derived mesenchymal stem and regenerative cells on lameness in dogs with chronic osteoarthritis of the coxofemoral joints: a randomized, double-blinded, multicenter, controlled trial. *Vet. Therapeut.*, 8(4), 272-284.
- GUSSONI E, SONEOKA Y, STRICKLAND CD, BUZNEY EA, KHAN MK, FLINT AF et al. (1999). Dystrophin expression in the mdx mouse restored by stem cells transplantation. *Nature*, 401, 390-394.
- HARRIS RG, HERZOG EL, BRUSCIA EM, GROVE JE, VAN ARNAM JS, KRAUSE DS (2004). Lack of fusion requirement for development of bone-marrow epithelia. *Science*, 305(5680), 90-93.
- HAWKE JH, GARRY DJ (2001). Myogenic satellite cells: physiology to molecular biology. *J. Appl. Physiol.*, 91, 534-551.
- HAYNES T, DEL RIO-TSONIS K (2004). Retina repair, stem cells and beyond. *Curr. Neurovasc. Res.*, 1, 231-239.
- HERZOG EL, CHAI L, KRAUSE DS (2003). Plasticity of marrow-derived stem cells. *Blood*, 102, 3483-3493.
- HIRSCHI KK, GOODEL MA (2002). Hematopoietic, vascular and cardiac fates of marrow derived stem cells. *Gene Ther.*, 9, 648-652.
- HISHIKAWA K, FUJITA T (2006). Stem cell and kidney disease. *Hypertens. Res.*, 29, 745-749.
- HIYAMA A, MOCHIDA J, IWASHINA T, OMI H, WATANABE T, SERIGANO K et al. (2008). Transplantation of mesenchymal stem cells in a canine disc degeneration model. *J. Orthop. Res.*, 26(5), 589-600.
- HO AD, PUNZEL M (2003). Hematopoietic stem cells: can old cells learn new tricks? *J. Leukoc. Biol.*, 73, 547-555.

- HOFFMAN RM (2005). The pluripotency of hair follicle stem cells. *Cell Cycle*, 5(3), 232-233.
- IANUS A, HOLZ GG, THEISE ND, HUSSAIN MA (2003). In vivo derivation of glucose-competent pancreatic endocrine cells from bone marrow without evidence of cell fusion. *J. Clin. Invest.*, 111, 843-850.
- INGBER DF, LEVIN M (2007). What lies at the interface of regenerative medicine and developmental biology? *Development*, 134, 2541-2547.
- ISHIKAWA F, CHRISTOPHER JD, SU Y, FLEMING PA, MINAMIGUCHI H, VISCONTI RP et al. (2003). Transplanted human cord blood cells give rise to hepatocytes in engrafted mice. *Ann. N. Y. Acad. Sci.*, 996, 174-185.
- JIN HK, CARTER JE, HUNTLEY GW, SCHUCHMAN EH (2002). Intracerebral transplantation of mesenchymal stem cells into acid sphingomyelinase-deficient mice delays the onset of neurological abnormalities and extends their life span. *J. Clin. Invest.*, 109, 1183-1191.
- JUNG Y-J, RYU K-H, CHO SJ, WOO S-Y, SEOH J-Y, CHUN CH et al. (2006). Syngenic bone marrow cells restore hepatic function in carbon tetrachloride-induced mouse liver injury. *Stem Cells Dev.*, 15, 687-695.
- KAPLAN MS, HINDS JW (1977). Neurogenesis in the adult rat: electron microscopic analysis of light radioautographs. *Science*, 197, 1092-1094.
- KARNOUB AE, DASH AB, VO AP, SULLIVAN A, BROOKS MW, BELL GW et al. (2007). Mesenchymal stem cells within tumor stroma promote breast cancer metastasis. *Nature*, 449, 557-563.
- KIEM HP, DAROVSKY B, VON KALLE C, GOEHLE S, STEWART D, GRAHAM T et al. (1994). Retrovirus mediated gene transduction into canine peripheral blood repopulating cells. *Blood*, 83(6), 1467-1473.
- KIM CFB, JACKSON EL, WOOLFENDEN AE, LAWRENCE S, BABAR I, VOGEL S et al. (2005). Identification of bronchioalveolar stem cells in normal lung and lung cancer. *Cell*, 121, 823-
- 835.
- KODAMA S, KUHTREIBER W, FUJIMURA S, DALE EA, FAUSTMAN DL (2003). Islet regeneration during the reversal of autoimmune diabetes in NOD mice. *Science*, 302, 1223-1227.
- KOLF CM, CHO E, TUAN RS (2007). Mesenchymal stromal cells. Biology of adult mesenchymal stem cells: regulation of niche, self-renewal and differentiation. *Arthritis Res. Ther.*, 9(1), 204-217.
- KRAUSE DS, THEISE N, COLLECTOR M, HENEGARIU O, HWANG S, GARDNER R et al. (2001). Multiorgan, multi-lineage engraftment by a single bone-marrow stem cell. *Cell*, 105, 369-377.
- KUBO H, ALITALO K (2003). The bloody fate of endothelial stem cells. *Genes Dev.*, 17, 322-329.
- KUHN HG, DICKINSON-ANSON H, GAGE FH (1996). Neurogenesis in the dentate gyrus of the adult rat: age-related decrease of neuronal progenitor proliferation. *J. Neurosci.*, 16, 2027-2033.
- LAGASSE E, CONNORS H, AL-DHALIMY M, REITSMA M, DOHSE M, OSBORNE L et al. (2000). Purified hematopoietic stem cells can differentiate into hepatocytes in vivo. *Nat. Med.*, 6, 1229-1234.
- LAVKER RM, TSENG SC, SUN TT (2004). Corneal epithelial stem cells at the limbus: looking at some old problems from a new angle. *Exp. Eye Res.*, 78, 433-446.

- LEICHNER A, YANG YG, BLACKEN RA (2004). No evidence for significant transdifferentiation of bone marrow into pancreatic beta-cells in vivo. *Diabetes*, 53, 616-623.
- LI L, XIE T (2005). Stem cell niche: structure and function. *Annu. Rev. Cell Dev. Biol.*, 21, 605-631.
- LI L, MIGNONE J, YANG M, MATIC M, PENMAN S, ENIKOLOPOV G et al. (2003). Nestin expression in hair follicle sheath progenitor cells. *Proc. Natl. Acad. Sci. USA*, 100, 9958-9961.
- LI W, HAYASHIDA Y, CHEN YT, TSENG SC (2007). Niche regulation of corneal epithelial stem cells at the limbus. *Cell Res.*, 17(1), 26-36.
- LIAO R, PFISTER O, JAIN M, MOUQUET F (2007). The bone marrow-cardiac axis of myocardial regeneration. *Progr. Cardiovasc. Dis.*, 50(1), 18-30.
- LINKE A, MULLER P, NURZYNSKA D, CASARSA C, TORELLA D, NASCIMBENE A et al. (2005). Stem cells in dog heart are self-renewing, clonogenic, and multipotent and regenerate infarcted myocardium, improving cardiac function. *Proc. Natl. Acad. Sci. USA*, 102, 8966-8971.
- LUSKIN MB (1993). Restricted proliferation and migration of postnatally generated neurons derived from the forebrain subventricular zone. *Neuron*, 11, 173-189.
- MA Y, XU Y, XIAO Z, YANGA W, ZHANGB C, SONGA E et al. (2006). Reconstruction of chemically burned rat corneal surface by bone marrow-derived human mesenchymal stem cells. *Stem Cells*, 24, 315-321.
- MATHEWS V, HANSON PT, FORD E, FUJITA J, POLONSKY KS, GRAUBERT TA (2004). Recruitement of bone marrow derived endothelial cells to site of pancreatic beta-cell injury. *Diabetes*, 53, 91-98.
- MAVILIO F, PELLEGRINI G, FERRARI S, DI NUNZIO F, DI IORIO E, RECCHIA A et al. (2006). Correction of junctional epidermolysis bullosa by transplantation of genetically modified epidermal stem cells. *Nat. Med.*, 12(12), 1397-1402.
- METCALF D (2005). Blood Lines: An Introduction to Characterizing Blood Diseases of the Post-Genomic Mouse. Durham, NC: AlphaMed Press, 251p.
- MEZEY E, CHANDROSS KJ, HARTA G, MAKI RA, MCKERCHER SR (2000). Turning blood into brain: cells bearing neuronal antigens generated in vivo from bone marrow. *Science*, 290, 1779-1782.
- MICKLEM HS, FORD CE, EVANS EP, OGDEN DA (1975a). Compartments and cell flows within the mouse hematopoietic system. I. Restricted interchange between hematopoietic sites. *Cell Tissue Kinet.*, 8(3), 219-232.
- MICKLEM HS, OGDEN DA, EVANS EP, FORD CE, GRAY JG (1975b). Compartments and cell flows within the mouse hematopoietic system. II. Estimated rates of interchange. *Cell Tissue Kinet.*, 8(3), 233-248.
- MIKKELSEN TS, JAENISCH R, HANNA J, ZHANG X, KU M, WERNING M et al. (2008). Dissecting direct reprogramming through integrative genomic analysis. *Science*, à paraître.
- MIMEAULT M, BATRA SK (2006). Concise review: recent advances on the significance of stem cells in tissue regeneration and cancer therapies. *Stem cells*, 24, 2319-2345.
- MORRISON SJ, SPRADLING AC (2008). Stem cells and niches: mechanisms that promote stem cell maintenance throughout life. *Cell*, 132, 598-611.
- MURPHY JM, FINK DJ, HUNZIKER EB, BARRY FP (2003). Stem cells therapy in a caprine model of osteoarthritis. *Arthritis Rheum.*, 48(12), 3464-3474.
- NAKAGAMI H, MORISHITA R, MAEDA K, KIKUSHI Y, OGIHARA T, KANEDA Y (2006). Adipose tissue-derived stromal cells as a novel option for regenerative cell therapy. *Arterioscler. Thromb.*, 13, 77-81.

- NAKAMURA T, TSUTOMU I, CHIE S, NORIKO K, SHIGERU K (2004). Successful primary culture and autologous transplantation of corneal limbal epithelial cells from minimal biopsy for unilateral severe ocular surface disease. *Acta Ophtalmol. Scand.*, 82, 468-471.
- NAKATOMI H, KURIU T, OKABE S, YAMAMOTO S, HATANO O, KAWAHARA N et al. (2002). Regeneration of hippocampal pyramidal neurons after ischemic brain injury by recruitment of endogenous neural progenitors. *Cell*, 110, 429-441.
- NEWSOME PN, JOHANNESSEN I, BOYLE S, DALAKAS E, MCAULAY KA, SAMUEL K et al. (2003). Human cord blood-derived cells can differentiate into hepatocytes in the mouse liver with no evidence of cellular fusion. *Gastroenterology*, 124, 1891-1900.
- NIESLER CU (2004). Old dogmas and new hearts: a role of adult stem cells in cardiac repair. *Cardiovasc. J. S. Afr.*, 15, 184-189.
- NOGUSHI H (2007). Stem cells for the treatment of diabetes. *Endocr. J.*, 54(1), 7-16.
- OLIVER JA, MAAROUF O, CHEEMA FH, MARTENS TP, AL-AWQATI Q (2004). The renal papilla is a niche for adult kidney stem cells. *J. Clin. Invest.*, 114(6), 795-804.
- ORLIC D, KAJSTURA J, CHIMENTI S, JAKONIUK I, ANDERSON SM, LI B et al. (2001a). Bone marrow cells regenerate myocardium. *Nature*, 410, 701-705.
- ORLIC D, KAJSTURA J, CHIMENTI S, LIMANA F, JAKONIUK I, QUAINI F et al. (2001b). Mobilized bone marrow cells repair the infarcted heart, improving function and survival. *Proc. Natl. Acad. Sci. USA*, 98, 10344-10349.
- PAJOOHESH-GANJI A, STEPP MA (2005). In search of markers for stem cells of corneal epithelium. *Biol. Cell*, 97, 265-276.
- PETERSEN BE, BOWEN WC, PATRENE KD, MARS WM, SULLIVAN AK, MURASE N et al. (1999). Bone marrow as a potential source of hepatic oval cells. *Science*, 284, 1168-1170.
- PLACHOT C, MOVASSAT J, PORTHA B (2001). Impaired beta-cell regeneration after partial pancreatectomy in the adult Goto-Kakizaki rat, a spontaneous model of type II diabetes. *Histochem. Cell Biol.*, 116, 131-139.
- PLANAT-BENARD V, SILVESTRE J-S, COUSIN B, ANDRE M, NIBBELINK M, TAMARAT R et al. (2004). Plasticity of human adipose lineage cells toward endothelial cells: physiological and therapeutic perspectives. *Circulation*, 109(5), 656-663.
- POTTEN CS, OWEN G, ROBERTS S (1990). The temporal and spatial changes in cell proliferation within the irradiated crypts in murine small intestine. *Int. J. Radiat. Biol.*, 57(1), 185-199.
- RAFII S, LYDEN D (2003). Therapeutic stem and progenitor cell transplantation for organ vascularization and regeneration. *Nat. Med.*, 9(6), 702-712.
- REINECKE H, POPA V, MURRY CE (2002). Skeletal muscle stem cells do not transdifferentiate into cardiomyocytes after cardiac grafting. *J. Mol. Cell. Cardiol.*, 34(2), 241-249.
- REYA T, CLEVERS H (2005). Wnt signaling in stem cells and cancer. *Nature*, 434(7035), 843-850.
- REYNOLD BA, WEISS S (1992). Generation of neurons and astrocytes from isolated cells of the adult mammalian central nervous system. *Science*, 255(5052), 1707-1710.
- RISAU W, FLAMME I (1995). Vasculogenesis. *Annu. Rev. Cell. Dev. Biol.*, 11, 73-91.
- RIZVI AZ, WONG MH (2005). Epithelial stem cells and their niche: there's no place like home. *Stem Cells*, 23(2), 150-165.
- ROSEN MR, ROBINSON RB, BRINK P, COHEN IS (2004). Recreating the biological pacemaker. *Anat. Rec. A. Discov. Mol. Cell Evol. Biol.*, 280(2), 1046-1052.
- SACKSTEIN R (2004). The bone marrow is akin to skin: HCELL and the biology of hematopoietic stem cells homing. *J. Investig. Dermatol. Symp. Proc.*, 9(3), 215-223.

- SANTANA A, ENSENAT-WASER R, ARRIBAS MI, REIG JA, ROCHE E (2006). Insulin-producing cells derived from stem cells: recent progress and future directions. *J. Cell. Mol. Med.*, 10(4), 866-883.
- SCHOFIELD (1978). The relationship between the spleen colony-forming cell and the hematopoietic stem cell. A hypothesis. *Blood cells*, 4(1-2), 7-25.
- SEKI T, ARAI Y (1993). Highly polysialylated neural cell adhesion molecule (NCAM-H) is expressed by newly generated granule cells in the dentate gyrus of the adult rat. *J. Neurosci.*, 13(6), 2351-2358.
- SIEBER-BLUM M, GRIM M (2004). The adult hair follicle: cradle for pluripotent neural crest stem cells. *Birth Defect Res. C. Embryo Today*, 72(2), 162-172.
- SINCLAIR R (1998). Male pattern androgenetic alopecia. *B.M.J.*, 317(7162), 865-869.
- SMITH RR, POCHAMPALLY R, PERRY A, HSU SC, PROCKOP DJ (2005). Electrophysiology of human and porcine adult cardiac stem cells isolated from endomyocardial biopsies. Late-breaking developments in stem cell biology and cardiac growth regulation. *Circulation*, 111, 1720.
- SORIA B, BEDOYA FJ, MARTIN F (2005). Gastro-intestinal stem cells I. Pancreatic stem cells.  
— Am. J. Physiol. Gastrointest. Liver Physiol., 289(2), 177-180.
- STEINDLER DA (2007). Stem cells, regenerative medicine, and animal models of disease. *I.L.A.R. J.*, 48(4), 323-338.
- STELLA CC, CAZZOLA M, DE FABRITIIS P, DE VINCENTIIS A, GIANNI AM, LANZA F et al. (1995). CD34-positive cells: biology and clinical relevance. *Haematologica*, 80, 367-387.
- STUMVOLL M, GOLDSTEIN BJ, HAEFTEN TWV (2005). Type 2 diabetes: principles of pathogenesis and therapy. *Lancet*, 365, 1333-1346.
- SUZUKI A, NAKAUCHI H, TANIGUSHI H (2003). Glucagon-like peptide 1 (1-37) converts intestinal epithelial cells into insulin-producing cells. *Proc. Natl. Acad. Sci. USA*, 100, 5034-5039.
- TARASENKO YI, YU Y, JORDAN PM, BOTTELSTEIN J, WU P (2004). Effect of mitogenic growth factors on proliferation and phenotypic differentiation of fetal human neural stem cells. *J. Neurosci. Res.*, 78, 625-636.
- TARNOWSKI M, SIERON AL (2006). Adult stem cells and their ability to differentiate. *Med. Sci. Monit.*, 12(8), 154-163.
- TAUPIN P (2006a). Autologous transplantation in the central nervous system. *Indian J. Med. Res.*, 124, 613-618.
- TAUPIN P (2006b). Neural progenitor and stem cells in the adult central nervous system. *Ann. Acad. Med. Singapore*, 35, 814-820.
- THOMSON J (1998). Embryonic stem cells lines derived from human blastocysts. *Science*, 282, 1145-1147.
- TILL JE, MCCULLOCH EA (1961). A direct measurement of the radiation sensitivity of normal mouse bone marrow cells. *Radiat. Res.*, 14, 213-222.
- TORELLA D, ELLISON GM, NADAL-GINARD B, INDOLFI C (2005). Cardiac stem cells and progenitor cell biology for regenerative medicine. *Trends Cardiovasc. Med.*, 15, 229-236.
- ULLOA-MONTOYA F, VERFAILLIE C, HU W-S (2005). Culture systems for pluripotent stem cells. *J. Biosci. Bioeng.*, 100(1), 12-27.
- VERFAILLIE C, LAKSHMIPATHY U (2005). Stem cell plasticity. *Blood Rev.*, 19, 29-38.
- WALKLEY CR, OLSEN GH, DWORAKIN S, FABB SA, SWANN J, MCARTHUR GA et al. (2007). A microenvironment-induced myeloproliferative syndrome caused by retinoic acid receptor gamma deficiency. *Cell*, 129, 1097-1110.

- WALKUP MH, GERBER DA (2006). Hepatic stem cells: in search of. *Stem Cells*, 24, 1833–1840.
- WANG RN, KLOPPEL G, BOUWENS L (1995). Duct-to-islet-cell differentiation and islet growth in the pancreas of duct-ligated rats. *Diabetologia*, 38, 1405-1411.
- WANG X, WILLENBRING H, AKKARI Y, TORIMARU Y, FOSTER M, AL-DHALIMY et al. (2003). Cell fusion is the principal source of bone-marrow derived hepatocytes. *Nature*, 422, 897-901.
- WATT FM (2002). Role of integrins in regulating epidermal adhesion, growth and differentiation. *E.M.B.O. J.*, 21, 3919-3926.
- WILMUT I, SCHNIEKE AE, MCWHIR J, KIND AJ, CAMPBELL KHS (1997). Viable offsprings derived from fetal and adult mammalian cells. *Nature*, 385, 810-813.
- WINTON DJ, BLOUNT MA, PONDER AJ (1988). A clonal marker induced by mutation in mouse intestinal epithelium. *Nature*, 333, 463-466.
- WONG MH, SAAM JR, STAPPENBECK TS, REXER CH, GORDON JI (2000). Genetic mosaic analysis based on Cre recombinase and navigated laser capture microdissection. *Proc. Natl. Acad. Sci. USA*, 97, 12601-12606.
- YAN L, LI S, HATCH H, AHRENS K, CORNELIUS JG, PETERSEN BE et al. (2002). In vitro trans-differentiation of adult hepatic stem cells into pancreatic endocrine hormone-producing cells. *Proc. Natl. Acad. Sci. USA*, 99, 8078-8083.
- YE L, HAIDER HK, SIM EKW (2006). Adult stem cells for cardiac repair: a choice between skeletal myoblasts and bone marrow stem cells. *Exp. Biol. Med.*, 231, 8-19.
- YOON YS, PARK JS, TKEBUCHAVA T, LUDEMAN C, LOSORDO DW (2004). Unexpected severe calcification after transplantation of bone marrow cells in acute myocardial infarction. *Circulation*, 109, 3154-3157.
- YOSHIDA S, KAJIMOTO Y, YASUDA T, WATADA H, FUJITANI Y, KOSAKA H et al. (2002). PDX-1 induces differentiation of intestinal epithelioid IEC-6 into insulin-producing cells. *Diabetes*, 51, 2505-2513.
- ZAMMIT PS, PARTRIDGE TA, YABLONKA-REUVENI Z (2006). The skeletal muscle satellite cell: the stem cell that came in from the cold. *J. Histochem. Cytochem.*, 54(11), 1177-1191.
- ZHANG J, NIU C, YE L, HUANG H, HE X, TONG W-G et al. (2003). Identification of the hematopoietic stem cell niche and control of the niche size. *Nature*, 425, 836-841.
- ZHANG Y-Q, KRITZIK M, SARVETNICK N (2005). Identification and expansion of pancreatic stem/progenitor cells. *J. Cell. Mol. Med.*, 9(2), 331-344.
- ZHAO X, DAS AV, THORESON WB, JAMES J, WATTNEM TE, RODRIGUEZ-SIERRA J et al. (2002). Adult corneal limbal epithelium. A model for studying neural potential of non-neuronal stem cells/progenitors. *Dev. Biol.*, 250(2), 317-331.
- ZEISBERG M, HANAI J-I, SUGIMOTO H, MAMMOTO T, CHARYTAN D, STRUTZ F et al. (2003). BMP-7 counteracts TGF-beta1-induced epithelial to mesenchymal transition and reverse chronic renal injury. *Nat. Med.*, 9, 964-968.
- ZULEWSKI H (2006). Stem cells with potential to regenerate insulin-producing cells in man. *Swiss Med. Wkly*, 136, 647-654.
- ZULEWSKI H, ABRAHAM EJ, GERLACH MJ, DANIEL PB, MORITZ W, MULLER W et al. (2001). Multipotential nestin-positive stem cells isolated from adult pancreatic islets differentiate ex- vivo into pancreatic endocrine, exocrine and hepatocytes phenotypes. *Diabetes*