

# STEM CELL REVIEWS

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THE REVIEWS SELECTED WERE ALL IN ENGLISH AND REFERENCED TO PUBMED.

THEY HAVE BEEN DIVIDED INTO THE FOLLOWING CATEGORIES:

**STEM CELLS: REVIEWS OF FUNCTION AND PHYSIOLOGY**

**STEM CELLS: GENERAL REVIEWS OF CLINICAL POTENTIAL OR USES**

**STEM CELLS AND AESTHETIC MEDICINE/FAT TRANSFER**

**STEM CELLS AND THE CARDIOVASCULAR SYSTEM**

**STEM CELLS AND THE ENDOCRINE SYSTEM**

**STEM CELLS: IMMUNOMODULATION AND THE IMMUNE SYSTEM**

**STEM CELLS AND THE KIDNEYS**

**STEM CELLS AND THE LIVER**

**STEM CELLS AND THE LUNGS**

**STEM CELLS: MAXILLOFACIAL AND ORAL CAVITY**

**STEM CELLS AND THE MUSCULOSKELETAL SYSTEM**

**STEM CELLS AND THE NERVOUS SYSTEM**

## **STEM CELLS: REVIEWS OF FUNCTION AND PHYSIOLOGY**

### **Adipocytes and adipose tissue.**

Kiess W, Petzold S, Töpfer M, Garten A, Blüher S, Kapellen T, Körner A, Kratzsch J.

Best Pract Res Clin Endocrinol Metab. 2008 Feb;22(1):135-53. Review.

PubMed PMID: 18279785.

### **Adipose-derived cells.**

Meliga E, Strem BM, Duckers HJ, Serruys PW.

Cell Transplant. 2007;16(9):963-70. Review.

PubMed PMID: 18293895.

### **Adipose-derived stem cells for the regeneration of damaged tissues.**

Parker AM, Katz AJ.

Expert Opin Biol Ther. 2006 Jun;6(6):567-78. Review.

PubMed PMID: 16706604.

**Adipose-derived adult stem cells: isolation, characterization, and differentiation potential.**

Gimble J, Guilak F.

Cytotherapy. 2003;5(5):362-9. Review.

PubMed PMID: 14578098.

**Adipose-derived stem cells: isolation, expansion and differentiation.**

Bunnell BA, Flaat M, Gagliardi C, Patel B, Ripoll C.

Methods. 2008 Jun;45(2):115-20. Epub 2008 May 29. Review.

PubMed PMID: 18593609.

**Adipose development: from stem cell to adipocyte.**

Otto TC, Lane MD.

Crit Rev Biochem Mol Biol. 2005 Jul-Aug;40(4):229-42. Review.

PubMed PMID: 16126487.

**Adipose tissue-derived stromal cells as a novel option for regenerative cell therapy.**

Nakagami H, Morishita R, Maeda K, Kikuchi Y, Ogihara T, Kaneda Y. J

Atheroscler Thromb. 2006 Apr;13(2):77-81. Review.

PubMed PMID: 16733294.

**Adult mesenchymal stem cells: characterization, differentiation, and application in cell and gene therapy.**

Baksh D, Song L, Tuan RS.

J Cell Mol Med. 2004 Jul-Sep;8(3):301-16. Review.

PubMed PMID: 15491506.

**Adult mesenchymal stem cells: a pluripotent population with multiple applications.**

Porada CD, Zanjani ED, Almeida-Porad G.

Curr Stem Cell Res Ther. 2006 Sep;1(3):365-9. Review.

PubMed PMID: 18220880.

**Aging of mesenchymal stem cells**

Sethe S, Scutt A, Stolzing A.

Ageing Res Rev. 2006 Feb;5(1):91-116.

Epub 2005 Nov 28. Review.

PubMed PMID: 16310414.

**Basic science review on adipose tissue for clinicians.**

Brown SA, Levi B, Lequex C, Wong VW, Mojallal A, Longaker MT.

Plast Reconstr Surg. 2010 Dec;126(6):1936-46. Review.

PubMed PMID: 21124133.

**Biochemical heterogeneity of mesenchymal stem cell populations: clues to their therapeutic efficacy.**

Phinney DG.

Cell Cycle. 2007 Dec 1;6(23):2884-9. Epub 2007 Sep 24. Review.

PubMed PMID: 18000405.

**Biology and clinical applications of mesenchymal stem cells**

Barry FP..

Birth Defects Res C Embryo Today. 2003 Aug;69(3):250-6. Review.

PubMed PMID: 14671778.

**Characterization of adipose-derived stem cells: an update.**

Bailey AM, Kapur S, Katz AJ.

Curr Stem Cell Res Ther. 2010 Jun;5(2):95-102. Review.

PubMed PMID: 19941461.

**Chondrogenesis, bone morphogenetic protein-4 and mesenchymal stem cells.**

Miljkovic ND, Cooper GM, Marra KG.

Osteoarthritis Cartilage. 2008 Oct;16(10):1121-30. Epub 2008 Apr 11. Review.

PubMed PMID: 18406633.

**Circulating mesenchymal stem cells.**

Roufosse CA, Direkze NC, Otto WR, Wright NA.

Int J Biochem Cell Biol. 2004 Apr;36(4):585-97. Review.

PubMed PMID: 15010325.

**Concise review: mesenchymal stem cells: their phenotype, differentiation capacity, immunological features, and potential for homing**

Chamberlain G, Fox J, Ashton B, Middleton J.

Stem Cells. 2007 Nov;25(11):2739-49. Epub 2007 Jul 26. Review.

PubMed PMID: 17656645.

**Controversial issue: is it safe to employ mesenchymal stem cells in cell-based therapies?**

Lepperdinger G, Brunauer R, Jamnig A, Laschober G, Kassem M.

Exp Gerontol. 2008 Nov;43(11):1018-23. Epub 2008 Jul 24. Review.

PubMed PMID: 18694815.

**Differentiation potential of adipose derived adult stem (ADAS) cells.**

Gimble JM, Guilak F.

Curr Top Dev Biol. 2003;58:137-60. Review.

PubMed PMID: 14711015.

**Fat tissue: an underappreciated source of stem cells for biotechnology.**

Fraser JK, Wulur I, Alfonso Z, Hedrick MH.

Trends Biotechnol. 2006 Apr;24(4):150-4. Epub 2006 Feb 20. Review.

PubMed PMID: 16488036.

**Functional implications of CD34 expression in human adipose-derived stem/progenitor cells.**

Suga H, Matsumoto D, Eto H, Inoue K, Aoi N, Kato H, Araki J, Yoshimura K.

Stem Cells Dev. 2009 Oct;18(8):1201-10.

PubMed PMID: 19226222.

**Hormone and growth factor signaling in endometrial renewal: role of stem/progenitor cells.**

Gargett CE, Chan RW, Schwab KE.

Mol Cell Endocrinol. 2008 Jun 25;288(1-2):22-9. Epub 2008 Mar 4. Review.

PubMed PMID: 18403104.

**How do mesenchymal stromal cells exert their therapeutic benefit?**

Horwitz EM, Dominici M.

Cytotherapy. 2008;10(8):771-4. Review.

PubMed PMID: 19089685.

**Human adipose-derived stem cells: isolation, characterization and applications in surgery.**

Locke M, Windsor J, Dunbar PR.

ANZ J Surg. 2009 Apr;79(4):235-44. Review.

PubMed PMID: 19432707.

**Human mesenchymal stem cells: from basic biology to clinical applications.**

Abdallah BM, Kassem M.

Gene Ther. 2008 Jan;15(2):109-16. Epub 2007 Nov 8. Review.

PubMed PMID: 17989700.

**Human mesenchymal stem cells in contact with their environment: surface characteristics and the integrin system.**

Docheva D, Popov C, Mutschler W, Schieker M.

J Cell Mol Med. 2007 Jan-Feb;11(1):21-38. Review.

PubMed PMID: 17367499.

**Hypoxia and stem cell-based engineering of mesenchymal tissues.**

Ma T, Grayson WL, Fröhlich M, Vunjak-Novakovic G.

Biotechnol Prog. 2009 Jan-Feb;25(1):32-42. Review.

PubMed PMID: 19198002

**Mechanisms involved in the therapeutic properties of mesenchymal stem cells.**

Meirelles Lda S, Fontes AM, Covas DT, Caplan AI.

Cytokine Growth Factor Rev. 2009 Oct-Dec;20(5-6):419-27. Epub 2009 Nov 18. Review.

PubMed PMID: 19926330.

**Mesenchymal progenitor cell research: limitations and recommendations.**

Summer R, Fine A.

Proc Am Thorac Soc. 2008 Aug 15;5(6):707-10. Review.

PubMed PMID: 18684722.

**Mesenchymal stem cell aging.**

Fehrer C, Lepperdinger G.

Exp Gerontol. 2005 Dec;40(12):926-30.

Epub 2005 Aug 25. Review.

PubMed PMID: 16125890.

**Mesenchymal stem cell differentiation and roles in regenerative medicine**

Hwang NS, Zhang C, Hwang YS, Varghese S.

Wiley Interdiscip Rev Syst Biol Med. 2009 Jul-Aug;1(1):97-106. Review.

PubMed PMID: 20835984.

**Mesenchymal stem cell homing: the devil is in the details.**

Karp JM, Leng Teo GS.

Cell Stem Cell. 2009 Mar 6;4(3):206-16. Review.

PubMed PMID: 19265660.

**Mesenchymal stem cell mechanobiology.**

Castillo AB, Jacobs CR.

Curr Osteoporos Rep. 2010 Jun;8(2):98-104. Review.

PubMed PMID: 20425617.

**Mesenchymal stem cells.**

Roberts I.

Vox Sang. 2004 Jul;87 Suppl 2:38-41. Review.

PubMed PMID: 15209876.

**Mesenchymal stem cells.**

Short B, Brouard N, Occhiodoro-Scott T, Ramakrishnan A, Simmons PJ.

Arch Med Res. 2003 Nov-Dec;34(6):565-71. Review.

PubMed PMID: 14734097.

**Mesenchymal stem cells.**

Väänänen HK.

Ann Med. 2005;37(7):469-79. Review.

PubMed PMID: 16278160.

**Mesenchymal stem cells and their use as cell replacement therapy and disease modelling tool.**

García-Castro J, Trigueros C, Madrenas J, Pérez-Simón JA, Rodriguez R, Menendez P.

J Cell Mol Med. 2008 Dec;12(6B):2552-65. Review.

PubMed PMID: 19210755.

**Mesenchymal stem cells as trophic mediators.**

Caplan AI, Dennis JE.

J Cell Biochem. 2006 Aug 1;98(5):1076-84. Review.

PubMed PMID: 16619257.

**Mesenchymal stem cells in health and disease.**

Uccelli A, Moretta L, Pistoia V.

Nat Rev Immunol. 2008 Sep;8(9):726-36. Review.

PubMed PMID: 19172693.

**Mesenchymal stem cells: isolation and therapeutics**

Alhadlaq A, Mao JJ..

Stem Cells Dev. 2004 Aug;13(4):436-48. Review.

PubMed PMID: 15345137.

**Mesenchymal stem cells: characteristics and clinical applications.**

Bobis S, Jarocho D, Majka M.

Folia Histochem Cytobiol. 2006;44(4):215-30. Review.

PubMed PMID: 17219716.

**Mesenchymal stem cells: clinical applications and biological characterization.**

Barry FP, Murphy JM.

Int J Biochem Cell Biol. 2004 Apr;36(4):568-84. Review.

PubMed PMID: 15010324.

**Mesenchymal stem cells: unknown mechanisms of differentiation.**

Ozüyaman B, Kelm M.

J Hypertens. 2005 Jun;23(6):1133-4. Review.

PubMed PMID: 15894886.

**Mesenchymal stem cell tissue engineering: techniques for isolation, expansion and application.**

Pountos I, Corscadden D, Emery P, Giannoudis PV.

Injury. 2007 Sep;38 Suppl 4:S23-33. Review.

PubMed PMID: 18224734.

**Mesenchymal stromal cells. Biology of adult mesenchymal stem cells: regulation of niche, self-renewal and differentiation.**

Kolf CM, Cho E, Tuan RS.

Arthritis Res Ther. 2007;9(1):204. Review. PubMed PMID: 17316462

**More insight into mesenchymal stem cells and their effects inside the body.**

Zou Z, Zhang Y, Hao L, Wang F, Liu D, Su Y, Sun H.

Expert Opin Biol Ther. 2010 Feb;10(2):215-30. Review.

PubMed PMID: 20088716.

**Multipotential differentiation of adipose tissue-derived stem cells.**

Strem BM, Hicok KC, Zhu M, Wulur I, Alfonso Z, Schreiber RE, Fraser JK, Hedrick MH.

Keio J Med. 2005 Sep;54(3):132-41. Review.

PubMed PMID: 16237275.

**Paracrine effects of cell transplantation: strategies to augment the efficacy of cell therapies.**

Cheng AS, Yau TM.

Semin Thorac Cardiovasc Surg. 2008 Summer;20(2):94-101. Review.

PubMed PMID: 18707640.

**Pluripotency in adult stem cells: state of the art.**

Serafini M, Verfaillie CM.

Semin Reprod Med. 2006 Nov;24(5):379-88. Review.

PubMed PMID: 17123233.

**Signal transduction and transcriptional regulation during mesenchymal cell differentiation.**

Nishimura R, Hata K, Ikeda F, Ichida F, Shimoyama A, Matsubara T, Wada M, Amano K, Yoneda T.

J Bone Miner Metab. 2008;26(3):203-12. Epub 2008 May 11. Review.

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**The human adipose tissue is a source of multipotent stem cells.**

Rodriguez AM, Elabd C, Amri EZ, Ailhaud G, Dani C.

Biochimie. 2005 Jan;87(1):125-8. Review.

PubMed PMID: 15733747.

**Trafficking and differentiation of mesenchymal stem cells.**

Liu ZJ, Zhuge Y, Velazquez OC.

J Cell Biochem. 2009 Apr 15;106(6):984-91. Review.

PubMed PMID: 19229871.

**Why are MSCs therapeutic? New data: new insight.**

Caplan AI

J Pathol. 2009 Jan;217(2):318-24. Review.

PubMed PMID: 19023885.

**STEM CELLS: GENERAL REVIEWS OF CLINICAL POTENTIAL OR USES**

**Adipose-derived stem and stromal cells for cell-based therapy: current status of preclinical studies and clinical trials.**

Mizuno H.

Curr Opin Mol Ther. 2010 Aug;12(4):442-9. Review.

PubMed PMID: 20677095.

**Adipose-derived stem cells for clinical applications: a review.**

Wilson A, Butler PE, Seifalian AM.

Cell Prolif. 2011 Feb;44(1):86-98. doi: 10.1111/j.1365-2184.2010.00736.x.

PubMed PMID: 21199013.

**Adipose-derived stem cells for regenerative medicine**

Gimble JM, Katz AJ, Bunnell BA.

Circ Res. 2007 May 11;100(9):1249-60. Review.

PubMed PMID: 17495232.

**Adipose-derived stem cells for tissue repair and regeneration: ten years of research and a literature review.**

Mizuno H.

J Nippon Med Sch. 2009 Apr;76(2):56-66. Review.

PubMed PMID: 19443990.

**Adipose stem cells and solid organ transplantation.**

Tholpady SS, Ogle RC, Katz AJ.

Curr Opin Organ Transplant. 2009 Feb;14(1):51-5. Review.

PubMed PMID: 19337147.

**Adipose tissue-derived cells: from physiology to regenerative medicine.**

Casteilla L, Dani C.

Diabetes Metab. 2006 Nov;32(5 Pt 1):393-401. Review.

PubMed PMID: 17110894.

**Adipose tissue-derived stromal cells as a novel option for regenerative cell therapy.**

Nakagami H, Morishita R, Maeda K, Kikuchi Y, Ogihara T, Kaneda Y.

J Atheroscler Thromb. 2006 Apr;13(2):77-81. Review.  
PubMed PMID: 16733294.

**Adipose tissue-derived therapeutics.**

Gimble JM.  
Expert Opin Biol Ther. 2003 Aug;3(5):705-13. Review.  
PubMed PMID: 12880371.

**Adult mesenchymal stem cells and cell-based tissue engineering.**

Tuan RS, Boland G, Tuli R.  
Arthritis Res Ther. 2003;5(1):32-45.  
Epub 2002 Dec 11. Review.  
PubMed PMID: 12716446

**Adult stem cells: a clinical update**

Totey S, Totey S, Pal R, Pal R  
J Stem Cells. 2009;4(2):105-21. Review.  
PubMed PMID: 20232596.

**Adult stem cells and their trans-differentiation potential--perspectives and therapeutic applications.**

Hombach-Klonisch S, Panigrahi S, Rashedi I, Seifert A, Alberti E, Pocar P, Kurpisz M, Schulze-Osthoff K, Mackiewicz A, Los M.  
J Mol Med. 2008 Dec;86(12):1301-14. Epub 2008 Jul 16. Review.  
PubMed PMID: 18629466

**Adult stem cells as an alternative source of multipotential (pluripotential) cells in regenerative medicine.**

Kuçi S, Kuçi Z, Latifi-Pupovci H, Niethammer D, Handgretinger R, Schumm M, Bruchelt G, Bader P, Klingebiel T.  
Curr Stem Cell Res Ther. 2009 May;4(2):107-17. Review.  
PubMed PMID: 19442195.

**Adult mesenchymal stem cells and cell-based tissue engineering.**

Tuan RS, Boland G, Tuli R. A  
Arthritis Res Ther. 2003;5(1):32-45. Epub 2002 Dec 11. Review.  
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**Adult mesenchymal stem cells: a pluripotent population with multiple applications.**

Porada CD, Zanjani ED, Almeida-Porad G.  
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PubMed PMID: 18220880.

**Adult mesenchymal stem cells: differentiation potential and therapeutic applications.**

Jackson L, Jones DR, Scotting P, Sottile V.  
J Postgrad Med. 2007 Apr-Jun;53(2):121-7. Review.  
PubMed PMID: 17495381.

**Adult mesenchymal stem cells for tissue engineering versus regenerative medicine.**

Caplan AI.  
J Cell Physiol. 2007 Nov;213(2):341-7. Review.  
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**Adult mesenchymal stromal stem cells for therapeutic applications.**

Spitkovsky D, Hescheler J.  
Minim Invasive Ther Allied Technol. 2008;17(2):79-90. Review.  
PubMed PMID: 18465443.

**Concise review: adipose tissue-derived stromal cells--basic and clinical implications for novel cell-based therapies.**

Schäffler A, Büchler C.  
Stem Cells. 2007 Apr;25(4):818-27. Review.  
PubMed PMID: 17420225.

**Expanded adipose-derived stem cells for the treatment of complex perianal fistula including Crohn's disease.**

Garcia-Olmo D, Garcia-Arranz M, Herreros D.  
Expert Opin Biol Ther. 2008 Sep;8(9):1417-23. Review.  
PubMed PMID: 18694359.

**From the laboratory bench to the patient's bedside: an update on clinical trials with mesenchymal stem cells.**

Giordano A, Galderisi U, Marino IR.  
J Cell Physiol. 2007 Apr;211(1):27-35. Review.  
PubMed PMID: 17226788.

**Human mesenchymal stem cells and their use in cell-based therapies.**

Motaln H, Schichor C, Lah TT.  
Cancer. 2010 Jun 1;116(11):2519-30. Review.  
PubMed PMID: 20301117.

**Mesenchymal stem cell-based therapy: a new paradigm in regenerative medicine.**

Satija NK, Singh VK, Verma YK, Gupta P, Sharma S, Afrin F, Sharma M, Sharma P, Tripathi RP, Gurudutta GU.  
J Cell Mol Med. 2009 Nov-Dec;13(11-12):4385-402. Epub 2009 Jul 10. Review.

PubMed PMID: 19602034.

**Mesenchymal stem cell differentiation and roles in regenerative medicine.**

Hwang NS, Zhang C, Hwang YS, Varghese S.

Wiley Interdiscip Rev Syst Biol Med. 2009 Jul-Aug;1(1):97-106. Review.

PubMed PMID: 20835984.

**Mesenchymal stem cells and hematopoietic stem cell transplantation.**

Fibbe WE, Noort WA.

Ann N Y Acad Sci. 2003 May;996:235-44. Review.

PubMed PMID: 12799302.

**Mesenchymal stem cells as therapeutics.**

Parekkadan B, Milwid JM.

Annu Rev Biomed Eng. 2010 Aug 15;12:87-117. Review.

PubMed PMID: 20415588.

**Mesenchymal stem cells: biological characteristics and potential clinical applications.**

Kassem M.

Cloning Stem Cells. 2004;6(4):369-74. Review.

PubMed PMID: 15671665.

**Mesenchymal stem cells: building blocks for molecular medicine in the 21st century.**

Caplan AI, Bruder SP.

Trends Mol Med. 2001 Jun;7(6):259-64. Review.

PubMed PMID: 11378515.

**Mesenchymal stem cells: characteristics and clinical applications.**

Bobis S, Jarocho D, Majka M.

Folia Histochem Cytobiol. 2006;44(4):215-30. Review.

PubMed PMID: 17219716.

**Mesenchymal stem cells: clinical applications and biological characterization.**

Barry FP, Murphy JM.

Int J Biochem Cell Biol. 2004 Apr;36(4):568-84. Review.

PubMed PMID: 15010324.

**Mesenchymal stem cells for bone gene therapy and tissue engineering.**

Pelled G, G T, Aslan H, Gazit Z, Gazit D.

Curr Pharm Des. 2002;8(21):1917-28. Review.

PubMed PMID: 12171527.

**Mesenchymal stem cells for clinical application.**

Sensebé L, Krampera M, Schrezenmeier H, Bourin P, Giordano R.  
Vox Sang. 2010 Feb;98(2):93-107. Epub 2009 Aug 3. Review.  
PubMed PMID: 19663934.

**Mesenchymal stem cells for therapeutic purposes.**

Sensebé L, Bourin P.  
Transplantation. 2009 May 15;87(9 Suppl):S49-53. Review.  
PubMed PMID: 19424006.

**Mesenchymal stem cells for tissue engineering and regenerative medicine.**

Tae SK, Lee SH, Park JS, Im GI.  
Biomed Mater. 2006 Jun;1(2):63-71. Epub 2006 Apr 26. Review.  
PubMed PMID: 18460758.

**Mesenchymal stem cells in tissue engineering.**

Leo AJ, Grande DA.  
Cells Tissues Organs 2006;183(3):112-22. Review.  
PubMed PMID: 17108682.

**Mesenchymal stem cells: a promising candidate in regenerative medicine.**

Chen Y, Shao JZ, Xiang LX, Dong XJ, Zhang GR.  
Int J Biochem Cell Biol. 2008;40(5):815-20. Epub 2008 Jan 16. Review.  
PubMed PMID: 18295530.

**Mesenchymal stem cells: cell biology and potential use in therapy.**

Kassem M, Kristiansen M, Abdallah BM.  
Basic Clin Pharmacol Toxicol. 2004 Nov;95(5):209-14. Review.  
PubMed PMID: 15546474.

**Mesenchymal stem cells: future source for reparative medicine.**

Bhatia R, Hare JM.  
Congest Heart Fail. 2005 Mar-Apr;11(2):87-91; quiz 92-3. Review.  
PubMed PMID: 15860974.

**Mesenchymal stem cells: paracrine signaling and differentiation during cutaneous wound repair.**

Hocking AM, Gibran NS.  
Exp Cell Res. 2010 Aug 15;316(14):2213-9. Epub 2010 May 13. Review.  
PubMed PMID: 20471978

**Mesenchymal stem cells: properties and role in clinical bone marrow transplantation.**

Le Blanc K, Ringdén O.

Curr Opin Immunol. 2006 Oct;18(5):586-91. Epub 2006 Aug 1. Review.  
PubMed PMID: 16879957.

**Mesenchymal stem cell therapy for nonmusculoskeletal diseases: emerging applications**

Kuo TK, Ho JH, Lee OK.

Cell Transplant. 2009;18(9):1013-28. Epub 2009 Apr 29. Review.  
PubMed PMID: 19523328.

**Mesenchymal stem cell: use and perspectives.**

Tocci A, Forte L.

Hematol J. 2003;4(2):92-6. Review.  
PubMed PMID: 12750726.

**Mesengenic potential and future clinical perspective of human processed lipoaspirate cells.**

Mizuno H, Hyakusoku H.

J Nippon Med Sch. 2003 Aug;70(4):300-6. Review.  
PubMed PMID: 12928709.

**Potential of mesenchymal stem cell therapy.**

Dazzi F, Horwood NJ.

Curr Opin Oncol. 2007 Nov;19(6):650-5. Review.  
PubMed PMID: 17906466.

**Potential therapeutic applications of muscle-derived mesenchymal stem and progenitor cells.**

Jackson WM, Nesti LJ, Tuan RS.

Expert Opin Biol Ther. 2010 Apr;10(4):505-17. Review.  
PubMed PMID: 20218920

**Responses of adipose-derived stem cells during hypoxia: enhanced skin-regenerative potential.**

Chung HM, Won CH, Sung JH.

Expert Opin Biol Ther. 2009 Dec;9(12):1499-508. Review.  
PubMed PMID: 19780713.

**Role of mesenchymal stromal cells in solid organ transplantation.**

Hematti P.

Transplant Rev (Orlando). 2008 Oct;22(4):262-73. Epub 2008 Jul 24. Review.  
PubMed PMID: 18656340

**Role of stem cell research in therapeutic purpose--a hope for new horizon in medical biotechnology.**

Saxena AK, Singh D, Gupta J.

J Exp Ther Oncol. 2010;8(3):223-33. Review.  
PubMed PMID: 20734921.

**Stem cells from adipose tissue allow challenging new concepts for regenerative medicine.**

Helder MN, Knippenberg M, Klein-Nulend J, Wuisman PI.

Tissue Eng. 2007 Aug;13(8):1799-808. Review.

PubMed PMID: 17518736.

**Stem cells for regenerative medicine: advances in the engineering of tissues and organs.**

Ringe J, Kaps C, Burmester GR, Sittinger M.

Naturwissenschaften. 2002 Aug;89(8):338-51. Epub 2002 Jul 23. Review.

PubMed PMID: 12435034.

**Stem cells: potential therapy for age-related diseases.**

Kassem M.

Ann N Y Acad Sci. 2006 May;1067:436-42. Review.

PubMed PMID: 16804023.

**Stem cell strategies, future and beyond.**

Sugaya K. Seishin Shinkeigaku

Zasshi. 2003;105(1):68-80. Review.

PubMed PMID: 12701213.

**The growing importance of fat in regenerative medicine.**

Strem BM, Hedrick MH.

Trends Biotechnol. 2005 Feb;23(2):64-6. Review.

PubMed PMID: 15661340.

**The potential of stem cells in orthopaedic surgery.**

Lee EH, Hui JH.

J Bone Joint Surg Br. 2006 Jul;88(7):841-51. Review.

PubMed PMID: 16798982.

**Tissue engineering with mesenchymal stem cells.**

Kuo CK, Tuan RS.

IEEE Eng Med Biol Mag. 2003 Sep-Oct;22(5):51-6. Review.

PubMed PMID: 14699936.

**Tissue regeneration. The past, the present and the future.**

Giannoudis PV, Pountos I.

Injury. 2005 Nov;36 Suppl 4:S2-5. Epub 2005 Nov 8. Review.

PubMed PMID: 16288758.

**Tomorrow's skeleton staff: mesenchymal stem cells and the repair of bone and cartilage.**

Otto WR, Rao J.  
Cell Prolif. 2004 Feb;37(1):97-110. Review. PubMed  
PMID: 14871240.

**Updates on stem cells and their applications in regenerative medicine.**

Bajada S, Mazakova I, Richardson JB, Ashammakhi N.  
J Tissue Eng Regen Med. 2008 Jun;2(4):169-83. Review.  
PubMed PMID: 18493906.

## **STEM CELLS AND AESTHETIC MEDICINE/FAT TRANSFER**

### **GENERAL**

**Adipose tissue regeneration.**

Brayfield CA, Marra KG, Rubin JP.  
Curr Stem Cell Res Ther. 2010 Jun;5(2):116-21. Review.  
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**Cell-assisted lipotransfer.**

Sterodimas A, de Faria J, Nicaretta B, Papadopoulos O, Papalambros E, Illouz YG.  
Aesthet Surg J. 2010 Jan;30(1):78-81. Review.  
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**Adipogenesis induced by human adipose tissue-derived stem cells.**

Tsuji W, Inamoto T, Yamashiro H, Ueno T, Kato H, Kimura Y, Tabata Y, Toi M.  
Tissue Eng Part A. 2009 Jan;15(1):83-93.  
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**Supplementation of fat grafts with adipose-derived regenerative cells improves long-term graft retention.**

Zhu M, Zhou Z, Chen Y, Schreiber R, Ransom JT, Fraser JK, Hedrick MH, Pinkernell K, Kuo HC.  
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