

Comprehensive Research Review

2011 Publications

Govindasamy V, et al. (2011) Differentiation of Dental Pulp Stem Cells into Islet Like Aggregates.

Govindasamy V, Ronald VS, Abdullah AN, Ganesan Nathan KR, Ab Aziz ZA, Abdullah M, Musa S, Abu Kasim NH, Bhonde RR.

J Dent Res. published online 18 February 2011.

<http://www.ncbi.nlm.nih.gov/pubmed/21335539>

2010 Publications

Stem Cells from Human Exfoliated Deciduous Teeth Can Differentiate into Dopaminergic Neuron-like Cells.

Wang J, Wang X, Sun Z, Wang X, Yang H, Shi S, Wang S.

Stem Cells Dev. 2010 Sep;19(9):1375-83. PMID: 20131979

<http://www.ncbi.nlm.nih.gov/pubmed/20131979>

SHED Differentiate into Functional Odontoblasts and Endothelium.

Sakai VT, Zhang Z, Dong Z, Neiva KG, Machado MA, Shi S, Santos CF, Nör JE.

J Dent Res. 2010 Aug;89(8):791-6. Epub 2010 Apr 15. PMID: 20395410

<http://www.ncbi.nlm.nih.gov/pubmed/20395410>

A feasibility of useful cell-based therapy by bone regeneration with deciduous tooth stem cells, dental pulp stem cells, or bone marrow-derived mesenchymal stem cells for clinical study using tissue engineering technology.

Yamada Y, Nakamura S, Ito K, Sugito T, Yoshimi R, Nagasaka T, Ueda M.

Tissue Eng Part A. 2010 Jun;16(6):1891-900. PMID: 20067397

<http://www.ncbi.nlm.nih.gov/pubmed/20067397>

Osteogenic differentiation of stem cells derived from human periodontal ligaments and pulp of human exfoliated deciduous teeth.

Chadipiralla K, Yochim JM, Bahuleyan B, Huang CY, Garcia-Godoy F, Murray PE, Stelnicki EJ.

Cell Tissue Res. 2010 May;340(2):323-33. Epub 2010 Mar 23. PMID: 20309582

<http://www.ncbi.nlm.nih.gov/pubmed/20309582>

Effect of cryopreservation on biological and immunological properties of stem cells from apical papilla.

Ding G, Wang W, Liu Y, An Y, Zhang C, Shi S, Wang S.
J Cell Physiol. 2010 May;223(2):415-22. PMID: 20082304
<http://www.ncbi.nlm.nih.gov/pubmed/20082304>

Dental Tissue Regeneration - A Mini-Review.

Yen AH, Yelick PC.
Gerontology. 2010 May 6. [Epub ahead of print]. PMID: 20453484
<http://www.ncbi.nlm.nih.gov/pubmed/20453484>

Differentiation potential of STRO-1+ dental pulp stem cells changes during cell passaging.

Yu J, He H, Tang C, Zhang G, Li Y, Wang R, Shi J, Jin Y.
BMC Cell Biol. 2010 May 8;11(1):32. [Epub ahead of print]. PMID: 20459680
<http://www.ncbi.nlm.nih.gov/pubmed/20459680>

Isolation and characterization of stem cells derived from human third molar tooth germs of young adults: implications in neo-vascularization, osteo-, adipo- and neurogenesis.

Yalvac ME, Ramazanoglu M, Rizvanov AA, Sahin F, Bayrak OF, Salli U, Palotás A, Kose GT.
Pharmacogenomics J. 2010 Apr;10(2):105-13. Epub 2009 Sep. PMID: 19721467
<http://www.ncbi.nlm.nih.gov/pubmed/19721467>

Vital pulp therapy-current progress of dental pulp regeneration and revascularization.

Zhang W, Yelick PC.
Int J Dent. 2010;2010:856087. Epub 2010 Apr 28. PMID: 20454445
<http://www.ncbi.nlm.nih.gov/pubmed/20454445>

Corneal reconstruction with tissue-engineered cell sheets composed of human immature dental pulp stem cells.

Gomes JA, Geraldes Monteiro B, Melo GB, Smith RL, Cavenaghi Pereira da Silva M, Lizier NF, Kerkis A, Cerruti H, Kerkis I.
Invest Ophthalmol Vis Sci. 2010 Mar;51(3):1408-14. Epub 2009 Nov. PMID: 19892864
<http://www.ncbi.nlm.nih.gov/pubmed/19892864>

Addition of Mesenchymal Stem Cells to the Scaffold of Platelet-Rich Plasma Is Beneficial for the Reduction of the Consolidation Period in Mandibular Distraction Osteogenesis.

Hwang YJ, Choi JY.
J Oral Maxillofac Surg. 2010 Mar 10. PMID: 20223574
<http://www.ncbi.nlm.nih.gov/pubmed/20223574>

Deciduous and Permanent Dental Pulp Mesenchymal Cells Acquire Hepatic Morphologic and Functional Features In Vitro.

Ishkitiev N, Yaegaki K, Calenic B, Nakahara T, Ishikawa H, Mitiev V, Haapasalo M.
J Endod. 2010 Mar;36(3):469-474. PMID: 20171365
<http://www.ncbi.nlm.nih.gov/pubmed/20171365>

Immunomodulatory properties of stem cells from human exfoliated deciduous teeth.

Yamaza T, Kentaro A, Chen C, Liu Y, Shi Y, Gronthos S, Wang S, Shi S.

Stem Cell Res Ther. 2010 Mar 15;1(1):5. PMID: 20504286

<http://www.ncbi.nlm.nih.gov/pubmed/20504286>

Stem/progenitor Cell-Mediated De Novo Regeneration of Dental Pulp with Newly Deposited Continuous Layer of Dentin in an In Vivo Model.

Huang G, Yamaza T, Shea LD, Djouad F, Kuhn NZ, Tuan R, Shi S.

Tissue Eng Part A. 2010 Feb;16(2):605-15. PMID: 19737072

<http://www.ncbi.nlm.nih.gov/pubmed/19737072>

Dental Stem Cell Therapy with Calcium Hydroxide in Dental Pulp Capping.

Ji YM, Jeon SH, Park JY, Chung JH, Choung YH, Choung PH.

Tissue Eng Part A. 2010 Feb 17. PMID: 20055661

<http://www.ncbi.nlm.nih.gov/pubmed/20055661>

Identification of a Common Gene Expression Signature Associated with Immature Clonal Mesenchymal Cell Populations derived from Bone Marrow and Dental Tissues.

Menicanin D, Bartold PM, Zannettino AC, Gronthos S.

Stem Cells Dev. 2010 Feb 3. PMID: 20128661

<http://www.ncbi.nlm.nih.gov/pubmed/20128661>

Human Tooth Germ Stem Cells Preserve Neuro-Protective Effects after Long-Term Cryo-Preservation.

Yalvaç ME, Ramazanoglu M, Tekguc M, Bayrak OF, Shafigullina AK, Salafutdinov II, Blatt NL, Kiyasov AP, Sahin F, Palotás A, Rizvanov AA.

Curr Neurovasc Res. 2010 Feb 1;7(1):49-58. PMID: 20158462

<http://www.ncbi.nlm.nih.gov/pubmed/20158462>

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. PMID: 20088716

<http://www.ncbi.nlm.nih.gov/pubmed/20088716>

Isolation and in vitro characterisation of dental pulp stem cells from natal teeth.

Karaöz E, Dogan BN, Aksoy A, Gacar G, Akyüz S, Ayhan S, Genç ZS, Yürüker S, Duruksu G, Demircan PC, Sariboyaci AE.

Histochem Cell Biol. 2010 Jan;133(1):95-112. Epub 2009 Oct 9. PMID: 19816704

<http://www.ncbi.nlm.nih.gov/pubmed/19816704>

[Osteogenic capacity of human deciduous dental pulp stem cells in vitro.]

Shen YY, Chen K, Xu N.

Nan Fang Yi Ke Da Xue Xue Bao. 2010 Jan;30(1):96-9. Chinese. PMID: 20117994

<http://www.ncbi.nlm.nih.gov/pubmed/20117994>

2009 Publications

Human mandible bone defect repair by the grafting of dental pulp stem/progenitor cells and collagen sponge biocomplexes.

d'Aquino R, De Rosa A, Lanza V, Tirino V, Laino L, Graziano A, Desiderio V, Laino G, Papaccio G.

Eur Cell Mater. 2009 Nov 12;18:75-83. PMID: 19908196

<http://www.ncbi.nlm.nih.gov/pubmed/19908196?dopt=Abstract>

Human dental pulp stem cells with highly angiogenic and neurogenic potential for possible use in pulp regeneration.

Nakashima M, Iohara K, Sugiyama M.

Cytokine Growth Factor Rev. 2009 Oct-Dec;20(5-6):435-40. Epub 2009 Nov 6. PMID: 19896887

<http://www.ncbi.nlm.nih.gov/pubmed/19896887>

Implanted Adult Human Dental Pulp Stem Cells Induce Endogenous Axon Guidance.

Arthur A, Shi S, Zannettino AC, Fujii N, Gronthos S, Koblar SA.

Stem Cells. 2009 Sep;27(9):2229-37. PMID: 19544412

<http://www.ncbi.nlm.nih.gov/pubmed/19544412>

Mesenchymal stem cells derived from dental tissues vs. those from other sources: their biology and role in regenerative medicine.

Huang GT, Gronthos S, Shi S.

J Dent Res. 2009 Sep;88(9):792-806. PMID: 19767575

<http://www.ncbi.nlm.nih.gov/pubmed/19767575>

Simultaneous PKC and cAMP activation induces differentiation of human dental pulp stem cells into functionally active neurons.

Király M, Porcsalmy B, Pataki A, Kádár K, Jelítai M, Molnár B, Hermann P, Gera I, Grimm WD, Ganss B, Zsembery A, Varga G.

Neurochem Int. 2009 Sep;55(5):323-32. Epub 2009 Apr 5. PMID: 19576521

<http://www.ncbi.nlm.nih.gov/pubmed/19576521>

Human dental pulp stem cells: from biology to clinical applications.

d'Aquino R, De Rosa A, Laino G, Caruso F, Guida L, Rullo R, Checchi V, Laino L, Tirino V, Papaccio G.

J Exp Zool B Mol Dev Evol. 2009 Jul 15;312B(5):408-15. PMID: 19065566

<http://www.ncbi.nlm.nih.gov/pubmed/19065566>

Evaluation of pluripotency in human dental pulp cells.

Koyama N, Okubo Y, Nakao K, Bessho K.

J Oral Maxillofac Surg. 2009 Mar;67(3):501-6. PMID: 19231772

<http://www.ncbi.nlm.nih.gov/pubmed/19231772>

Stem cells from deciduous tooth repair mandibular defect in swine.

Zheng Y, Liu Y, Zhang CM, Zhang HY, Li WH, Shi S, Le AD, Wang SL.

J Dent Res. 2009 Mar;88(3):249-54. PMID: 19329459

<http://www.ncbi.nlm.nih.gov/pubmed/19329459>

Potential role of dental stem cells in the cellular therapy of cerebral ischemia.

Yalvac ME, Rizvanov AA, Kilic E, Sahin F, Mukhamedyarov MA, Islamov RR, Palotás A.J
Dent Res. Curr Pharm Des. 2009;15(33):3908-16. PMID: 19938343
<http://www.ncbi.nlm.nih.gov/pubmed/19938343>

Isolation of Distinct Progenitor Stem Cell Populations from Dental Pulp.

Waddington RJ, Youde SJ, Lee CP, Sloan AJ.
Cells Tissues Organs. 2009;189(1-4):268-74. Epub 2008 Aug 14. PMID: 18701814
<http://www.ncbi.nlm.nih.gov/pubmed/18701814>

2008 Publications

Human dental pulp stem cells differentiate into neural crest-derived melanocytes and have label-retaining and sphere-forming abilities.

Stevens A, Zuliani T, Olejnik C, LeRoy H, Obriot H, Kerr-Conte J, Formstecher P, Bailliez Y, Polakowska RR.
Stem Cells Dev. 2008 Dec;17(6):1175-84. PMID: 18393638
<http://www.ncbi.nlm.nih.gov/pubmed/18393638>

Dental pulp tissue engineering with stem cells from exfoliated deciduous teeth.

Cordeiro MM, Dong Z, Kaneko T, Zhang Z, Miyazawa M, Shi S, Smith AJ, Nör JE.
J Endod. 2008 Aug;34(8):962-9. PMID: 18634928
<http://www.ncbi.nlm.nih.gov/pubmed/18634928>

Putative Dental Pulp Derived Stem/Stromal Cells Promote Proliferation and Differentiation of Endogenous Neural Cells in the Hippocampus of Mice.

Huang AH, Snyder BR, Cheng PH, Chan AW.
Stem Cells. 2008 Aug 7. PMID: 18687995
<http://www.ncbi.nlm.nih.gov/pubmed/18687995>

Dental pulp tissue engineering with stem cells from exfoliated deciduous teeth.

Cordeiro MM, Dong Z, Kaneko T, Zhang Z, Miyazawa M, Shi S, Smith AJ, Nör JE.
J Endod. 2008 Aug;34(8):962-9. PMID: 18634928
<http://www.ncbi.nlm.nih.gov/pubmed/18634928>

Adult human dental pulp stem cells differentiate toward functionally active neurons under appropriate environmental cues.

Arthur A, Rychkov G, Shi S, Koblar SA, Gronthos S.
Stem Cells. 2008 Jul;26(7):1787-95. PMID: 18499892
<http://www.ncbi.nlm.nih.gov/pubmed/18499892>

Self-Assembling Peptide Amphiphile Nanofibers as a Scaffold for Dental Stem Cells.

Galler KM, Cavender A, Yuwono V, Dong H, Shi S, Schmalz G, Hartgerink JD, D'Souza RN.
Tissue Eng Part A. 2008 Jul 17. PMID: 18636949
<http://www.ncbi.nlm.nih.gov/pubmed/18636949>

SHED repair critical-size calvarial defects in mice.

Seo BM, Sonoyama W, Yamaza T, Coppe C, Kikui T, Akiyama K, Lee JS, Shi S.

Oral Dis. 2008 Jul;14(5):428-34. PMID: 18938268

<http://www.ncbi.nlm.nih.gov/pubmed/18938268>

Characterization of dental pulp stem cells of human tooth germs.

Takeda T, Tezuka Y, Horiuchi M, Hosono K, Iida K, Hatakeyama D, Miyaki S, Kunisada T, Shibata T, Tezuka K.

J Dent Res. 2008 Jul;87(7):676-81. PMID: 18573990

<http://www.ncbi.nlm.nih.gov/pubmed/18573990>

Stem cells and periodontal regeneration.

Lin NH, Gronthos S, Bartold PM.

Aust Dent J. 2008 Jun;53(2):108-21. PMID: 18494965

<http://www.ncbi.nlm.nih.gov/pubmed/18494965>

Somatic stem cells for regenerative dentistry.

Morsczeck C, Schmalz G, Reichert TE, Völlner F, Galler K, Driemel O.

Clin Oral Investig. 2008 Jun;12(2):113-8. Epub 2008 Jan 3. PMID: 18172700

<http://www.ncbi.nlm.nih.gov/pubmed/18172700>

Collection, cryopreservation, and characterization of human dental pulp-derived mesenchymal stem cells for banking and clinical use.

Perry BC, Zhou D, Wu X, Yang FC, Byers MA, Chu TM, Hockema JJ, Woods EJ, Goebel WS.

Tissue Eng Part C Methods. 2008 Jun;14(2):149-56. PMID: 18489245

<http://www.ncbi.nlm.nih.gov/pubmed/18489245>

Human dental pulp stem cells improve left ventricular function, induce angiogenesis, and reduce infarct size in rats with acute myocardial infarction.

Gandia C, Armiañan A, García-Verdugo JM, Lledó E, Ruiz A, Miñana MD, Sanchez-Torrijos J, Payá R, Mirabet V, Carbonell-Uberos F, Llop M, Montero JA, Sepúlveda P.

Stem Cells. 2008 Mar;26(3):638-45. Epub 2007 Dec 13. PMID: 18079433

<http://www.ncbi.nlm.nih.gov/pubmed/18079433>

Human dental pulp stem cells differentiate into neural crest- derived melanocytes and have label-retaining and sphere-forming abilities.

Stevens A, Zuliani T, Olejnik C, Leroy H, Obriot H, Kerr-Conte J, Formstecher P, Bailliez Y, Polakowska RR.

Stem Cells Dev. 2008 Mar 25. PMID: 18393638

<http://www.ncbi.nlm.nih.gov/pubmed/18393638>

In vivo evaluation of human dental pulp stem cells differentiated towards multiple lineages.

Zhang W, Walboomers XF, Van Kuppevelt TH, Daamen WF, Van Damme PA, Bian Z, Jansen JA.

J Tissue Eng Regen Med. 2008 Mar-Apr;2(2-3):117-25. PMID: 18338838

<http://www.ncbi.nlm.nih.gov/pubmed/18338838>

Reconstruction of large cranial defects in nonimmunosuppressed experimental design with human dental pulp stem cells.

de Mendonça Costa A, Bueno DF, Martins MT, Kerkis I, Kerkis A, Fanganiello RD, Cerruti H, Alonso N, Passos-Bueno MR.

J Craniofac Surg. 2008 Jan;19(1):204-10. PMID: 18216690
<http://www.ncbi.nlm.nih.gov/pubmed/18216690>

Dental pulp stem cells: a promising tool for bone regeneration.

d'Aquino R, Papaccio G, Laino G, Graziano A.
Stem Cell Rev. 2008 Spring;4(1):21-6. PMID: 18300003
<http://www.ncbi.nlm.nih.gov/pubmed/18300003>

2007 Publications

Mesenchymal progenitor cells in adult human dental pulp and their ability to form bone when transplanted into immunocompromised mice.

Otaki S, Ueshima S, Shiraiishi K, Sugiyama K, Hamada S, Yorimoto M, Matsuo O.
Cell Biol Int. 2007 Oct;31(10):1191-7. Epub 2007 Apr 14. PMID: 17524678
<http://www.ncbi.nlm.nih.gov/pubmed/17524678>

Human postnatal dental pulp cells co-differentiate into osteoblasts and endotheliocytes: a pivotal synergy leading to adult bone tissue formation.

d'Aquino R, Graziano A, Sampaolesi M, Laino G, Pirozzi G, De Rosa A, Papaccio G.
Cell Death Differ. 2007 Jun;14(6):1162-71. Epub 2007 Mar 9. PMID: 17347663
<http://www.ncbi.nlm.nih.gov/pubmed/17347663>

Concave pit-containing scaffold surfaces improve stem cell-derived osteoblast performance and lead to significant bone tissue formation.

Graziano A, d'Aquino R, Cusella-De Angelis MG, Laino G, Piattelli A, Pacifici M, De Rosa A, Papaccio G.
PLoS ONE. 2007 Jun 6;2:e496. PMID: 17551577
<http://www.ncbi.nlm.nih.gov/pubmed/17551577>

Transplantation of mesenchymal stem cells is an optimal approach for plastic surgery.

Fang D, Seo BM, Liu Y, Sonoyama W, Yamaza T, Zhang C, Wang S, Shi S.
Stem Cells. 2007 Apr;25(4):1021-8. Epub 2006 Dec 14. PMID: 17170063
<http://www.ncbi.nlm.nih.gov/pubmed/17170063>

Multilineage potential of STRO-1+ rat dental pulp cells in vitro.

Yang X, Zhang W, van den Dolder J, Walboomers XF, Bian Z, Fan M, Jansen JA.
J Tissue Eng Regen Med. 2007 Mar-Apr;1(2):128-35. PMID: 18038401
<http://www.ncbi.nlm.nih.gov/pubmed/18038401>

In vitro stem cell cultures from human dental pulp and periodontal ligament: new prospects in dentistry.

Ballini A, De Frenza G, Cantore S, Papa F, Grano M, Mastrangelo F, Tete S, Grassi FR.
Int J Immunopathol Pharmacol. 2007 Jan-Mar;20(1):9-16. Review. PMID: 17346423
<http://www.ncbi.nlm.nih.gov/pubmed/17346423>

Human dental pulp stem cells--isolation and long term cultivation.

Suchánek J, Soukup T, Ivancáková R, Karbanová J, Hubková V, Pytlík R, Kucerová L.
Acta Medica (Hradec Kralove). 2007;50(3):195-201. PMID: 18254273
<http://www.ncbi.nlm.nih.gov/pubmed/18254273>

2006 Publications

Mesenchymal stem cell-mediated functional tooth regeneration in Swine.

Sonoyama W, Liu Y, Fang D, Yamaza T, Seo BM, Zhang C, Liu H, Gronthos S, Wang CY, Shi S, Wang S. PLoS ONE. 2006 Dec 20;1:e79. PMID: 17183711

<http://www.ncbi.nlm.nih.gov/pubmed/17183711>

Transplantation of Mesenchymal Stem Cells is an Optimal Approach for Plastic Surgery.

Fang D, Seo BM, Liu Y, Sonoyama W, Yamaza T, Zhang C, Wang S, Shi S.

Stem Cells. 2006 Dec 14. PMID: 17170063

<http://www.ncbi.nlm.nih.gov/pubmed/17170063>

The performance of human dental pulp stem cells on different three-dimensional scaffold materials.

Zhang W, Frank Walboomers X, van Kuppevelt TH, Daamen WF, Bian Z, Jansen JA.

Biomaterials. 2006 Nov;27(33):5658-68. Epub 2006 Aug 17. PMID: 16916542

<http://www.ncbi.nlm.nih.gov/pubmed/16916542>

Differentiation of dental pulp stem cells into regular-shaped dentin-pulp complex induced by tooth germ cell conditioned medium.

Yu J, Deng Z, Shi J, Zhai H, Nie X, Zhuang H, Li Y, Jin Y.

Tissue Eng. 2006 Nov;12(11):3097-105. PMID: 17518625

<http://www.ncbi.nlm.nih.gov/pubmed/17518625>

Craniofacial tissue engineering by stem cells.

Mao JJ, Giannobile WV, Helms JA, Hollister SJ, Krebsbach PH, Longaker MT, Shi S.

J Dent Res. 2006 Nov;85(11):966-79. Review. PMID: 17062735

<http://www.ncbi.nlm.nih.gov/pubmed/17062735>

Multilineage differentiation potential of stem cells derived from human dental pulp after cryopreservation.

Zhang W, Walboomers XF, Shi S, Fan M, Jansen JA.

Tissue Eng. 2006 Oct;12(10):2813-23. PMID: 17518650

<http://www.ncbi.nlm.nih.gov/pubmed/17518650>

Long-term cryopreservation of dental pulp stem cells (SBP-DPSCs) and their differentiated osteoblasts: a cell source for tissue repair.

Papaccio G, Graziano A, d'Aquino R, Graziano MF, Pirozzi G, Menditti D, De Rosa A, Carinci F, Laino G.

J Cell Physiol. 2006 Aug;208(2):319-25. PMID: 16622855

<http://www.ncbi.nlm.nih.gov/pubmed/16622855>

Cluster analysis and gene expression profiles: a cDNA microarray system-based comparison between human dental pulp stem cells (hDPSCs) and human mesenchymal stem cells (hMSCs) for tissue engineering cell therapy.

Yamada Y, Fujimoto A, Ito A, Yoshimi R, Ueda M.

Biomaterials. 2006 Jul;27(20):3766-81. Epub 2006 Mar 24. PMID: 16563496

<http://www.ncbi.nlm.nih.gov/pubmed/16563496>

In vitro bone production using stem cells derived from human dental pulp.

Laino G, Carinci F, Graziano A, d'Aquino R, Lanza V, De Rosa A, Gombos F, Caruso F, Guida L, Rullo R, Menditti D, Papaccio G.

J Craniofac Surg. 2006 May;17(3):511-5. PMID: 16770190

<http://www.ncbi.nlm.nih.gov/pubmed/16770190>

An approachable human adult stem cell source for hard-tissue engineering.

Laino G, Graziano A, d'Aquino R, Pirozzi G, Lanza V, Valiante S, De Rosa A, Naro F, Vivarelli E, Papaccio G.

J Cell Physiol. 2006 Mar;206(3):693-701. PMID: 16222704

<http://www.ncbi.nlm.nih.gov/pubmed/16222704>

Dental pulp stem cells.

Liu H, Gronthos S, Shi S.

Methods Enzymol. 2006;419:99-113. PMID: 17141053

<http://www.ncbi.nlm.nih.gov/pubmed/17141053>

2005 Publications

A new population of human adult dental pulp stem cells: a useful source of living autologous fibrous bone tissue (LAB).

Laino G, d'Aquino R, Graziano A, Lanza V, Carinci F, Naro F, Pirozzi G, Papaccio G.

J Bone Miner Res. 2005 Aug;20(8):1394-402. Epub 2005 Mar 28. PMID: 16007337

<http://www.ncbi.nlm.nih.gov/pubmed/16007337>

The efficacy of mesenchymal stem cells to regenerate and repair dental structures.

Shi S, Bartold PM, Miura M, Seo BM, Robey PG, Gronthos S.

Orthod Craniofac Res. 2005 Aug;8(3):191-9. PMID: 16022721

<http://www.ncbi.nlm.nih.gov/pubmed/16022721>

Making a tooth: growth factors, transcription factors, and stem cells.

Zhang YD, Chen Z, Song YQ, Liu C, Chen YP.

Cell Res. 2005 May;15(5):301-16. PMID: 15916718

<http://www.ncbi.nlm.nih.gov/pubmed/15916718>

Identification and isolation of human dental pulp stem cells.

Zhonghua Kou Qiang Yi Xue Za Zhi.

2005 May;40(3):244-7. Chinese. PMID: 15938892

<http://www.ncbi.nlm.nih.gov/pubmed/15938892>

Differentiation ability of rat postnatal dental pulp cells in vitro.

Zhang W, Walboomers XF, Wolke JG, Bian Z, Fan MW, Jansen JA.

Tissue Eng. 2005 Mar-Apr;11(3-4):357-68. PMID: 15869416

<http://www.ncbi.nlm.nih.gov/pubmed/15869416>

Isolation and identification of human dental pulp stem cells.

Hua Xi Kou Qiang Yi Xue Za Zhi.

2005 Feb;23(1):75-8. Chinese. PMID: 15804030

2004 Publications

Reconstruction of human mandible by tissue engineering.

Gronthos S.

Lancet. 2004 Aug 28-Sep 3;364(9436):735-6. PMID: 15337383

<http://www.ncbi.nlm.nih.gov/pubmed/15337383>

Investigation of multipotent postnatal stem cells from human periodontal ligament.

Seo BM, Miura M, Gronthos S, Bartold PM, Batouli S, Brahim J, Young M, Robey PG, Wang CY, Shi S.

Lancet. 2004 Jul 10-16;364(9429):149-55. PMID: 15246727

<http://www.ncbi.nlm.nih.gov/pubmed/15246727>

Dentonin, a fragment of MEPE, enhanced dental pulp stem cell proliferation.

Liu H, Li W, Gao C, Kumagai Y, Blacher RW, DenBesten PK.

J Dent Res. 2004 Jun;83(6):496-9. PMID: 15153459

<http://www.ncbi.nlm.nih.gov/pubmed/15153459>

Dental pulp cells provide neurotrophic support for dopaminergic neurons and differentiate into neurons in vitro; implications for tissue engineering and repair in the nervous system.

Nosrat IV, Smith CA, Mullally P, Olson L, Nosrat CA.

Eur J Neurosci. 2004 May;19(9):2388-98. PMID: 15128393

<http://www.ncbi.nlm.nih.gov/pubmed/15128393>

2003 Publications

Comparison of stem-cell-mediated osteogenesis and dentinogenesis.

Batouli S, Miura M, Brahim J, Tsutsui TW, Fisher LW, Gronthos S, Robey PG, Shi S.

J Dent Res. 2003 Dec;82(12):976-81. PMID: 14630898

<http://www.ncbi.nlm.nih.gov/pubmed/14630898>

SHED: stem cells from human exfoliated deciduous teeth.

Miura M, Gronthos S, Zhao M, Lu B, Fisher LW, Robey PG, Shi S.

Proc Natl Acad Sci U S A. 2003 May 13;100(10):5807-12. Epub 2003 Apr 25. PMID: 12716973

<http://www.ncbi.nlm.nih.gov/pubmed/12716973>

Perivascular niche of postnatal mesenchymal stem cells in human bone marrow and dental pulp.

Shi S, Gronthos S.

J Bone Miner Res. 2003 Apr;18(4):696-704. PMID: 12674330

<http://www.ncbi.nlm.nih.gov/pubmed/12674330>

Responses of rat trigeminal neurones to dental pulp cells or fibroblasts overexpressing neurotrophic factors in vitro.

Lillesaar C, Arenas E, Hildebrand C, Fried K.
Neuroscience. 2003;119(2):443-51. PMID: 12770558
<http://www.ncbi.nlm.nih.gov/pubmed/12770558>

Analysis of tooth formation by reaggregated dental mesenchyme from mouse embryo.

Yamamoto H, Kim EJ, Cho SW, Jung HS.
J Electron Microsc (Tokyo). 2003;52(6):559-66. PMID: 14756244
<http://www.ncbi.nlm.nih.gov/pubmed/14756244>

Publications before 2003

Tissue engineering of complex tooth structures on biodegradable polymer scaffolds.

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Selected publication list assembled by BioEDEN, Inc., March 2011.
There are currently over 1000 peer reviewed relevant publications at www.pubmed.gov