

เอกสารอ้างอิง

- Al-Rubeai, M. and Singht, R.P. 1998. Apoptosis in cell culture. *Biotechnology*, 9:152-156
- Feldstein, A.E., and Gores, G.J. 2005 Apoptosis in alcoholic and nonalcoholic steatohepatitis. *Frontiers in Bioscience*, 10: 3093-3099.
- Alberts, B., Johnson, A., Liwis, J., Raff, M., Roberts, R., and Walter, P. 2002. Molecular biology of the Cell, 4th edition. Garland Science. New York.
- Baker, S.C., Rohman, G., Southgate, J. and Cameron, N.R. 2009. The relationship between the mechanical properties and cell behaviour on PLGA and PCL scaffolds for bladder tissue engineering. *Biomaterials*, 30: 1321–1328.
- Balto, H.A. 2004. Attachment and morphological behavior of human periodontal ligament fibroblasts to mineral trioxide aggregate: a scanning electron microscope study. *Journal of Endodontics* 30(1): 25-29.
- Barber, R. D., Harmer, D. W., Coleman, R. a, & Clark, B. J. 2005. GAPDH as a housekeeping gene: analysis of GAPDH mRNA expression in a panel of 72 human tissues. *Physiological genomics*, 21(3), 389–95.
- Blagosklonny, M.V. and Pardee, A.B. 2000. The Restriction Point of the cell cycle. Landes Bioscience. Madame Curie Bioscience Database.
- Borden, M., Attawia, M., Khan, Y. and Laurencin, C.T. 2002. Tissue engineered microsphere-based matrices for bone repair: design and evaluation. *Biomaterials* 23(2): 551-559.
- Bosi, A., Bartolozzi, B. and Guidi, S. 2005. Allogeneic Stem Cell Transplantation. *Transplantation Proceedings*, 37(6): 2667-2669.
- Brunot, C., Grosgeat, B., Picart, C., Lagneau, C., Jaffrezic-Renault, N. and Ponsonnet, L. 2008. Response of fibroblast activity and polyelectrolyte multilayer films coating titanium. *Dental Materials*, 24(8): 1025-1035.
- Cancedda, R.D., Cancedda, F., and Castagnola, P. 1995. Chondrocyte differentiation. *International Review of Cytology*, 159: 265-358.
- Chan, S. L., & Mattson, M. P. 1999. Caspase and calpain substrates: roles in synaptic plasticity and cell death. *Journal of neuroscience research*, 58(1), 167-90.
- Cohen, G. M., Sun, X. M., Snowden, R. T., Ormerod, M. G., & Dinsdale, D. 1993. Identification of a transitional preapoptotic population of thymocytes. *Journal of immunology (Baltimore, Md. : 1950)*, 151(2), 566-74.

- Conconi, M.T., Liddo, R.D., Tommasini, M., Calore, C. and Parnigotto, P.P. 2011. Phenotype and differentiation potential of stromal populations obtained from various zones of human umbilical cord: An overview. *The Open Tissue Engineering and Regenerative Medicine Journal*, 4: 6-20.
- Darzynkiewicz, Z., Juan, G., Li, X., Gorczyca, W., Murakami, T., & Traganos, F. 1997. Cytometry in cell necrobiology: analysis of apoptosis and accidental cell death (necrosis). *Cytometry*, 27(1), 1–20.
- D'Ippolito, G., Schiller, P.C., Ricordi, C., Roos, B.A. and Howard, G.A. 1999. Age-Related Osteogenic Potential of Mesenchymal Stromal Stem Cells from Human Vertebral BoneMarrow. *Journal of Bone and Mineral Research*, 14(7): 1115-1122.
- Dheda, K., Huggett, J. F., Bustin, S. a, Johnson, M. a, Rook, G., & Zumla, A. 2004. Validation of housekeeping genes for normalizing RNA expression in real-time PCR. *BioTechniques*, 37(1), 112–4, 116, 118–9.
- Dowling, D.P., Miller, I.S., Ardhaoui, M. and Gallagher, W.M. 2010. Effect of Surface Wettability and Topography on the Adhesion of Osteosarcoma Cells on Plasma-modified Polystyrene. *Journal of Biomaterials Applications*, 26(3)
- Drury, J.L. and Mooney, D.J. 2003. Hydrogels for tissue engineering : scaffold design variables and applications. *Biomaterials* 24(24): 4337-4351.
- El-Ghannam, A. 2005. Bone reconstruction: from bioceramics to tissue engineering. *Expert review of Medical Devices* 2(1): 87-101
- Elisseeff, J., Puleo, C., Yang, F. and Sharma, B. 2005. Advances in skeletal tissue engineering with hydrogels. *Orthodontics and Craniofacial Research* 8(3):150-161. Review.
- Facca, S., Dierich, A., Felix, O., Decher, G., Schaaf, P., Voegel, J.C. and Benkirane-Jessel, N. 2008. Nanostructured and multilayered active materials for clinical applications. *Bone*: 8621-8621.
- Favaloro, B., Allocati, N., Graziano, V., Di Ilio, C., & De Laurenzi, V. 2012. Role of apoptosis indisease. *Aging*, 4(5), 330–49.
- Fung, T.K., and Poon, R.Y.C. 2005. A roller coaster ride with the mitotic cyclins. *Seminars in Cell & Developmental Biology*, 16: 335-342.
- Furth, M.E., Atala, A. and Van Dyke, M.E. 2007. Smart biomaterials design for tissue engineering and regenerative medicine. *Biomaterials*, 28: 5068-5073.
- Gilyarov, A.V. Nestin in central nervous system cells. 2008. *Neuroscience and Behavioral Physiology*, 38(2): 165-169.

- Guéhenneq, L.L., Soueidan, L., Layrolle, P. and Amouriq, Y. 2007. Surface treatments of titanium dental implants for rapid osseointegration. *Dental Materials*, 23(7): 844-854.
- Gitig, D.M. and Koff, A. 2001. Cdk pathway: cyclin-dependent kinases and cyclin-dependent kinase inhibitors. *Molecular Biotechnology* 19(2): 179-188.
- Gribben, J.T., Zahrieh, D., Stephans, K., Bartlett-Pandite, L., Alyea, E.P., Fisher, D.C., Freedman, A.S., Mauch, P. and Schlossman, R. 2005. Autologous and allogeneic stem cell transplantations for poor-risk chronic lymphocytic leukemia. *American Society of Hematology*, 106(13): 4389-4396.
- Griffon, D. J., Sedighi, M. R., Schaeffer, D. V., Eurell, J. A., and Johnson, A. L. 2006. Chitosan scaffolds: interconnective pore size and cartilage engineering. *Acta Biomater*, 2: 313-320.
- Gugala, Z., and Gogolewski, S.J. 2008. Attachment, growth, and activity of rat osteoblasts on polylactide membranes treated with various low temperature radiofrequency plasmas. *Journal of Biomedical Materials Research Part A*, 76: 288-299.
- Gupta, S. 2001. Molecular steps of death receptor and mitochondrial pathways of apoptosis. *Life sciences*, 69(25-26), 2957-64.
- Guo, W. and Giancotti, F. G. 2004. Integrin signalling during tumour progression. *Nature Reviews Molecular Cell Biology*, 5: 816-826.
- Hammam, O.A., Elkhafif, N., Attia, Y.M., Mansour, M.T., Elmazar, M.M., Abdelsalam, R.M., Kenawy, S.A. and El-Khatib, A.S. 2016. Wharton's jelly-derived mesenchymal stem cells combined with praziquantel as a potential therapy for *Schistosoma mansoni*-induced liver fibrosis. *Scientific report*, doi: 10.1038/srep21005.
- Hansen, U., Schunke, M., Domm, C., Ioannidis, N., Hassenpflug, J. Gehrke, T., and Kurz, B. 2001. Combination of reduced oxygen tension and intermittent hydrostatic pressure: a useful tool in articular cartilage tissue engineering. *Journal of Biomechanics*, 34: 941-949.
- Heo, J., Lee, J.S., Chu, I.J., Takahama, Y., and Thorgeirsson, S.S. 2005. Spontaneous differentiation of mouse embryonic stem cells in vitro: Characterization by global gene expression profiles. *Biochemical and Biophysical Research Communications*, 332(4): 1061-1069.
- Holland, T.A. and Mikos, A.G. 2003. Advances in drug delivery for articular cartilage. *Journal of Controlled Release*, 86: 1-14.
- Horch, R.E., Kopp, J., Kneser, U., Beier, J. and Bach, A.D. 2005. Tissue engineering of cultured skin substitutes. *Journal of Cellular and Molecular Medicine* 9(3): 592-608.

- Horwitz, A.R., and Parsons, J.T. 1999. Cell Migration-Moving On. *Science*, 286: 1102-1103.
- Hu J., Bui K.M. and Patel K.H. 2013. Effect of hemodialysis on intraocular pressure and ocular perfusion pressure. *JAMA Ophthalmology*, 131(12): 1525–1531.
- Hu, W., & Kavanagh, J. J. 2003. Reviews Anticancer therapy targeting the apoptotic pathway, 721–729.
- Hu, Y., Benedict, M. a, Ding, L., & Núñez, G. 1999. Role of cytochrome c and dATP/ATP hydrolysis in Apaf-1-mediated caspase-9 activation and apoptosis. *The EMBO journal*, 18(13), 3586–95.
- Jones, D.G. and Peterson, L. 2007. Autologous chondrocyte implantation. *Cartilage Repair Strategies*, p137-165.
- King, R.W., M. Glotzer, and M.W. Kirschner. 1996. Mutagenic analysis of the destruction signal of mitotic cyclins and structural characterization of ubiquitinated intermediates. *Molecular Biology of the Cell* 7: 1343-1357.
- Leist, M., & Jäätelä, M. 2001. Four deaths and a funeral: from caspases to alternative mechanisms. *Nature reviews. Molecular cell biology*, 2(8), 589–98.
- Lim, J.Y. and Donahue, H.J. 2004. Biomaterial characteristics important to skeletal tissue engineering. *Journal of Musculoskeletal and Neuronal Interactions* 4(4): 396-398.
- Lin, A.S., Barrows, T.H, Cartmell, S.H. and Guldberg, R.E. 2003. Microarchitectural and mechanical characterization of oriented porous polymer scaffolds. *Biomaterials*, 24(3): 481-489.
- Liu, D.X. and Greene, L.A. 2001. Neuronal apoptosis at the G1/S cell cycle checkpoint. *Cell and Tissue Research* 305(2): 217-228.
- Liu, X. 2009. Effective control of cell behavior on conducting polymers. University of Wollongong Thesis Collection.
- Malafaya, P.B., Silva, G.A. and Reis, R.L. 2007. Natural-origin polymers as carriers and scaffolds for biomolecules and cell delivery in tissue engineering applications. *Advanced Drug Delivery Reviews*, 59: 207-233.
- Milovac, D., Gamboa-Martínez, T.C., Ivankovic, M., Gallego Ferrer, G. and Ivankovic, H. 2014. PCL-coated hydroxyapatite scaffold derived from cuttlefish bone: In vitro cell culture studies. *Materials Science and Engineering*, 42: 264-272.
- Mimeault, M. and Batra, S.K. 2006. Concise review: recent advances on the significance of stem cells in tissue regeneration and cancer therapies. *Stem Cells*, 24(11): 2319-2345.
- Miot, S., de Freitas, P.S., Wirz, D., Daniels, A.U., Sims, T.J., Hollander, A.P., Mainil-Varlet, P., Heberer, M., and Martin, I. 2006. Cartilage tissue engineering by

- expanded goat articular chondrocytes. *Journal of Orthopaedic Research*, 24: 1078-1085.
- Mobasheri, A., Matta, C., Zákány, R. and Musumeci, G. 2013. Chondrosenescence: definition, hallmarks and potential role in the pathogenesis of osteoarthritis. *An international journal of midlife health and beyond*, 80: 237–244.
- Mondrinos, M.J., Dembzyński, R., Lu, L., Byrapogu, V.K., Wootton, D.M., Lelkes, P.I. and Zhou, J. 2006. Porogen-based solid freeform fabrication of polycaprolactone - calcium phosphate scaffolds for tissue engineering. *Biomaterials* 27(25): 4399-4408.
- Nakagawa, H., Akita, S., Fukui, M., Fujii, T. and Akino, K. Human mesenchymal stem cells successfully improve skin-substitute wound healing. *British Journal of Dermatology*, 153(1): 29-36.
- Ohl, A. and Schröder, K. 1999. Plasma-induced chemical micropatterning for cell culturing applications: a brief review. *Surface and Coatings Technology*, 116-119: 820-830.
- Oelz, D. and Schmeiser, C. 2012. Simulation of lamellipodial fragments. *Journal of Mathematical Biology*, 64(3): 513-528.
- Peng, J., Wang, Y., Zhang, L., Zhao, B., Zhao, Z., Chen, J., Guo, Q., Liu, S., Sui, X., Xu, W. and Lu, S. 2011. Human umbilical cord Wharton's jelly-derived mesenchymal stem cells differentiate into a Schwann-cell phenotype and promote neurite outgrowth in vitro. *Brain Research Bulletin* 84(3): 235-243.
- Penolazzi, L., Mazzitelli, S., Vecchiatini, R., Torreggiani, E., Lambertini, E., Johnson, S., Badylak, S.F., Piva, R. and Nastruzzi, C. 2012. Human mesenchymal stem cells seeded on extracellular matrix scaffold: viability and osteogenic potential. *Journal of Cellular Physiology* 227(2): 857-866.
- Pietenpol, J. A. and Stewart, Z.A. 2002. Cell cycle checkpoint signaling: cell cycle arrest versus apoptosis. *Toxicology* 181-182: 475-481.
- Raghunath, J., Salacinski, H.J., Sales, K.M., Butler, P.E. and Seifalian, A.M. 2005. Advancing cartilage tissue engineering: the application of stem cell technology. *Current Opinion in Biotechnology* 16(5): 503-509.
- Rahaman, M.N. and Mao, J.J. 2005. Stem cell-based composite tissue constructs for regenerative medicine. *Biotechnology and Bioengineering* 91(3): 261-284.
- Regula, K. 2003. Mitochondria-assisted cell suicide: a license to kill. *Journal of Molecular and Cellular Cardiology*, 35(6), 559–567.
- Shashurin, A., Shneider, M.N. and Keidar, M. 2012. Measurements of streamer head potential and conductivity of streamer column in cold nonequilibrium atmospheric plasmas. *Plasma Sources Science and Technology*, 21(3)

- Rosier, R.N., O'Keefe, R.J., Crabb, I.D., and Puzas, J.E. 1989. Transforming growth factor beta: an autocrine regulator of chondrocytes. *Connective Tissue Research*, 20: 295-301.
- Silver, N., Best, S., Jiang, J., & Thein, S. L. 2006. Selection of housekeeping genes for gene expression studies in human reticulocytes using real-time PCR. *BMC molecular biology*, 7: 33.
- Shin, H., Jo, S. and Mikos, A.G. 2003. Biomimetic materials for tissue engineering. *Biomaterials*
- Sodhi, R. K., Singh, N., & Jaggi, A. S. 2010. Poly(ADP-ribose) polymerase-1 (PARP-1) and its therapeutic implications. *Vascular pharmacology*, 53(3-4), 77-87.
- Thellin, O., Zorzi, W., Lakaye, B., De Borman, B., Coumans, B., Hennen, G., Grisar, T., et al. 1999. Housekeeping genes as internal standards: use and limits. *Journal of biotechnology*, 75(2-3), 291-5.
- Troyer, D.L. and Weiss, M.L. 2008. Wharton's jelly-derived cells are a primitive stromal cell population. *Stem cells*, 26(3): 591-599.
- Vacanti, J.P. and Langer, R. 1999. Tissue engineering: the design and fabrication of living replacement devices for surgical reconstruction and transplantation. *Lancet*, 354 Supplement 1: SI32-34.
- Vivien, D., Galera, P., Lebrun, E., Loyau, G., and Pujol, J.P. 1990. Differential effects of transforming growth factor-beta and epidermal growth factor on the cell cycle of cultured rabbit articular chondrocytes. *Journal of Cellular Physiology*, 143: 534-545.
- Wiese, C., Rolletschka, A., Kania, G., Blyszczuka, P., Tarasov, K.V., Tarasov, Y., Werstob, R. P., Boheler, K. R. and Wobus, A.M. 2004. Nestin expression - a property of multi-lineage progenitor cells. *Cellular and Molecular Life Sciences*, 61: 2510-02522.
- Wu, K.H., Zhou, B., Lu, S.H., Feng, B., Yang, S.G., Du, W.T., Gu, D.S., Han, Z.C. and Liu, Y.L. 2007. *In vitro* and *in vivo* differentiation of human umbilical cord derived stem cells into endothelial cells. *Journal of Cellular Biochemistry* 100(3): 608-616.
- Yakovlev, A.G., Ota, K., Wang, G., Movsesyan, V., Bao, W.L., Yoshihara, K. and Faden, A.I. 2001. Differential Expression of Apoptotic Protease-Activating Factor-1 and Caspase-3 Genes and Susceptibility to Apoptosis during Brain Development and after Traumatic Brain Injury. *Journal of Neuroscience*, 21 (19): 7439-7446.
- Yam, C.H, Fung, T.K. and Poon, R.Y.C. 2002. Cyclin A in cell cycle control and cancer. *Cellular and Molecular Life Sciences* 59: 1317-1326.

Yoshikawa, H. and Myoui, A. 2005. Bone tissue engineering with porous hydroxyapatite ceramics. *Journal of Artificial Organs* 8(3): 131-136.

Zhao, L. and Detamore, M.S. 2010. Chondrogenic differentiation of stem cells in human umbilical cord stroma with PGA and PLLA scaffolds. *Journal of Biomedical Science and Engineering*, 3(11): 1041-1049.

Zhang, J., Niu, C., Ye, L., Huang, H., He, X., Tong, W.G., Ross, J. and Haug, J. 2003. Identification of the haematopoietic stem cell niche and control of the niche size. *Nature*, 425, 836-841.



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