

DAFTAR PUSTAKA

- Ahangar, P., Mills, S.J., Cowin, A.J., (2020) Mesenchymal stem cell secretome as an emerging cell-free alternative for improving wound repair. *International Journal of Molecular Sciences*. 21(19): 7038
- Amrullah, S.S.A., Sani, R., Arifin, N., Ruslin, M., (2012) Augmentasi Tulang Alveolar dengan Osteogenesis Distraksi. *Dentofasial*. 11(3): 174-179.
- Ando, Y., Matsubara, K., Ishikawa, J., Fujio, N., Shohara, R., Hibi, H., Ueda, M., Yamamoto, A., (2014) Stem Cell-Conditioned Medium Accelerates Distraction Osteogenesis Through Multiple Regenerative Mechanisms. *Bone*. 61: 82-90.
- Arsista, D., Eriwati, Y.K., (2018) Desain dan Fungsi Implan Kedokteran Gigi yang Beredar di Pasaran. *J Ked Gi Unpad*. 30(3): 168-174
- Atari, M., Gil-Recio, C., Fabregat, M., García-Fernández, D., Barajas, M., Carrasco, M.A., Jung, H.S., Alfaro, F.H., Casals, N., Prosper, F., Ferrés-Padró, E., (2012) Dental pulp of the third molar: a new source of pluripotent-like stem cells. *Journal of cell science*. 125(14): 3343-3356.
- Azami, M., Tavakol, S., Samadikuchaksaraei, A., Hashjin, M.S., baheiraei, N., Kamali, M., Nourani, M.R., (2012) A Porous Hydroxyapatite/Gelatin Nanocomposite Scaffold for Bone Tissue Repair: in Vitro and In Vivo Evaluation. *Journal of Biomaterials Science*. 23: 2353-2368
- Baglio, S.L., Pegtel, D.M., Baldini, N., (2012) Mesenchymal stem cell secreted vesicles provide novel opportunities in (stem) cell-free therapy. *Front Physiol*. 3: 1–11.
- Beyth, S., Borovsky, Z., Mevorach, D., Liebergall, M., Gazit, Z., Aslan, H., (2005) Human mesenchymal stem cells alter antigen-presenting cell maturation and induce T-cell unresponsiveness. *Blood*. 105: 2214-9
- Bigueti, C.C., Cavalla, F., Silveira, E.M., Fonseca, A.C., Vieira, A.E., Tabanez, A.P., Rodrigues, D.C., Trombone, A.P.F., Garlet, G.P., (2018) Oral Implant Osseointegration Model in C57BI/6 Mice: Microtomographic, Histological, Histomorphometric and Molecular Characterization. *J Appl Oral Sci*. 26
- Birmingham, E., Niebur, G.L., McHugh, P.E., Shaw, G., Barry, F.P., McNamara, L.M., (2012) Osteogenic Differentiation of Mesenchymal Stem Cells is Regulated by Osteocyte and Osteoblast Cells in A simplified Bone Niche. *European Cells and Materials*. 23: 13-27
- Choukroun, J., Khoury, G., Khoury, F., Russe, P., Testori, T., Komiyama, Y., (2014) Two Neglected Biologic Risk Factors in Bone Grafting and Implantology: High Low-Density Lipoprotein Cholesterol and Low Serum Vitamin D. *J Oral Implantol*. 40: 110-114.

- Davies, L.C., Heldring, N., Kadri, N., Le Blanc, K., (2017) Mesenchymal stromal cell secretion of programmed death-1 ligands regulates T cell mediated immunosuppression. *Stem cells*. 35(3): 766-776.
- Davila, J.C., Cezar, G.G., Thiede, M., Strom, S., Miki, T., Trosko, J., (2004) Use and Application of Stem Cells in Toxicology. *Toxicological Sciences*. 79(2)
- Deng, Y., Zhang, Y., Ye, L., Zhang, T., Cheng, J., Chen, G., Zhang, Q. and Yang, Y., (2016) Umbilical cord-derived mesenchymal stem cells instruct monocytes towards an IL10-producing phenotype by secreting IL6 and HGF. *Scientific reports*. 6(1): 1-9.
- Ercal, P., Pekozer, G.G., Kose, G.T. (2018). Dental stem cells in bone tissue engineering: current overview and challenges. *Cell Biology and Translational Medicine*. 3: 113-127.
- Garg, A.K., (2010) *Implant Dentistry a Practical Approach*. 2nd ed. Philadelphia: Mosby, Inc., an affiliate of Elsevier Inc.
- Gassling, V., Hedderich, J., Açil, Y., Purcz, N., Wiltfang, J., Douglas, T., (2013) Comparison of platelet rich fibrin and collagen as osteoblast-seeded scaffolds for bone tissue engineering applications. *Clinical oral implants research*. 24(3): 320-328.
- Gugliandolo, A., Fonticoli, L., Trubiani O, Rajan, T.S., Marconi G.D., Bramanti, P., Mazzon, E., Pizzicanella, J., Diomedede, F., (2021). Oral Bone Tissue Regeneration: Mesenchymal Stem Cells, Secretome, and Biomaterials. *Int. J. Mol. Sci*. 22:5236
- Hanafiah, O.A., Hanafiah, D.S., Dohude, G.A., Satria, D., Livita, L., Moudy, N.S., Rahma, R., (2022) Effect of 3% Binahong (*Anredera Cordifolia*) Leaf Extract Gel on Alveolar Bone Healing in Post-Extraction Tooth Socket Wound in Wistar Rats (*Rattus Norvegicus*). *F1000Research*. 10: 923
- Harsono, V., Prabowo, H., (2012) Implan Dental sebagai Perawatan Alternatif untuk Rehabilitasi Kehilangan Sebuah Gigi. *Dentofasial*. 11(3): 170-173
- Huang, C., Narayanan, R., Alapati, S., Ravindran, S., (2016) Exosomes as Biomimetic Tools for Stem Cell Differentiation: Application in Dental Pulp Tissue Regeneration. *Biomaterials*. 111: 103-115
- Hoque, M.E., Nuge, T., Yeow, T.K., Nordin, N., Prasad, R.G.S.V., (2015) Gelatin Based Scaffolds for Tissue Engineering. *Polymers Research Journal*. 9(1): 15-32
- Infante, A dan Rodriguez, C. I., (2018). Osteogenesis and aging: lessons from mesenchymal stemcells. *Stem Cell Research & therapy*. 9(1)

- Ivanov, A. A., Kuznetsova, A. v., Popova, O. P., Danilova, T. I., & Yanushevich, O. O. (2021). Modern Approaches to Acellular Therapy in Bone and Dental Regeneration. *International Journal of Molecular Sciences*, 22(24)
- Javed, F., Ahmed, H.B., Crespi, R., Romanos, G.E., (2013) Role of primary stability for successful osseointegration of dental implants: Factors of influence and evaluation. *Interv Med Appl Sci*. 5(4): 162–7
- Jayesh, R.S., Dhinakarsamy, V., (2015) Osseointegration. *Journal of Pharmacy and Bioallied Sciences*. 7(5)
- Kannan, S., Ghosh, J., Dhara, S.K., (2020) Osteogenic differentiation potential of porcine bone marrow mesenchymal stem cell subpopulations selected in different basal media. *The Company of Biologists*. 9: 1-11
- Katagiri, W., Osugi, M., Kawai, T., Hibi, H., (2016) First-in-human study and clinical case reports of the alveolar bone regeneration with the secretome from human mesenchymal stem cells. *Head 7 Face Medicine*. 12(5): 1-10
- Kay, A.G., Long, G., Tyler, G., Stefan, A., Broadfoot, S.J., Piccinini, A.M., Middleton, J., Kehoe, O., (2017) Mesenchymal stem cell-conditioned medium reduces disease severity and immune responses in inflammatory arthritis. *Scientific reports*. 7(1): 1-11.
- Kollmer, M., Buhrman, J.S., Zhang, Y., Gemeinhart, R.A., (2013) Markers Are Shared Between Adipogenic and Osteogenic Differentiated Mesenchymal Stem Cells. *J Dev Biol Tissue Eng*. 5(2): 18-25
- Kumar, P., Kandoi, S., Misra, R., Vijayalakshmi, S., Rajagopal, K., Verma, R.S., (2019) The mesenchymal stem cell secretome: a new paradigm towards cell-free therapeutic mode in regenerative medicine. *Cytokine & growth factor reviews*. 46: 1-9.
- Lin, D., Li, Q., Li, W., Duckmanton, N., Swain, M., (2010) Mandibular Bone Remodeling Induced by Dental Implant. *J Biomech*. 43(2): 287–293
- Linero I & Chaparro O. 2014. Paracrine effect of Mesenchymal Stem Cells Derived from Human Adipose Tissue in Bone Regeneration. *PLOS ONE*. 9(9):1-12
- Mai, Z., Chen, H., Ye, Y., Hu, Z., Sun, W., Cui, L., Zhao, X., (2021). Translational and clinical applications of dental stem cell-derived exosomes. *Frontiers in genetics*. 12: 1-9
- Malfait, F., Symoens, S., Goemans, N., Gyftodimou, Y., Holmberg, E., López-González, V., Mortier, G., Nampoothiri, S., Petersen, M.B., De Paepe A., (2013) Helical mutations in type I collagen that affect the processing of the amino-propeptide result in an Osteogenesis Imperfecta/Ehlers-Danlos Syndrome overlap syndrome. *Orphanet J Rare Dis*. 8(78): 1-10

- Nawafi, M.R., Masruroh, Santjojo, D.J.D.H., (2022) Morphological and Mechanical Study of Gelatin/Hydroxiapatite Composite Base Scaffold for Bone Tissue Regeneration. *Indonesian Journal of Applied Physics*. 12(20): 235
- Nallaswamy, D., (2017) *Textbook of Prosthodontics* 2nd ed. India: Jaypee Brother Medical
- Narayanan, R., Huang, C.C. and Ravindran, S., (2016) Hijacking the cellular mail: exosome mediated differentiation of mesenchymal stem cells. *Stem cells international*. 6: 1-11
- Ogata, K., Osugi, M., Kawai, T., Wakayama, Y., Sakaguchi, K., Nakamura, S., dan Katagiri, W., (2018) Secretomes of mesenchymal stem cells induce early bone regeneration by accelerating migration of stem cells. *Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology*. 30: 445–451
- Oktawati, S., Djais, A.I., Achmad, H., (2020) Bone Augmentation Procedure Before Placing the Dental Implant. *International Journal of Pharmaceutical Research*. 12(4): 4040-4044
- Pandey, C., Rokaya, D., Bhattarai, B.P., (2022) Contemporary Concepts in Osseointegration of Dental Implants: A Review. *BioMed Research International*. 22:1-11
- Parithimarkalaignan, S., Padmanabhan, T.V. (2013) Osseointegration: An Update. *J Indian Prosthodont Soc*. 13(1):2-6
- Phinney, D.G., Prockop, D.J., (2007) Concise review: mesenchymal stem/multipotent stromal cells: the state of transdifferentiation and modes of tissue repair-- current views. *Stem Cells*. 25(11): 2896-2902.
- Prosecka, E., Rampichova, M., Litvinec, A., Tonar, Z., Kralickova, M., Vojtova, L., Kochova, P., Plencner, M., Buzgo, M., Mickova, A., Jancar, J., Amler, E., (2014) Collagen/hydroxyapatite scaffold enriched with polycaprolactone nanofibers, thrombocyte-rich solution and mesenchymal stem cells promotes regeneration in large bone defect in vivo. *J Biomed Mater Res Part A*. 00A
- Ramazanoglu, M., Oshida, Y., (2011) Osseointegration and bioscience of implant surface- current concepts at bone-implan interface. *Implant Dentistry A Rapidly Evolving Practice*. 3: 58-82.
- Rendra, E., Scaccia, E., Bieback, K., (2020) Recent advances in understanding mesenchymal stromal cells. *F1000 Research*. 156: 1-9
- Rifai, Y., (2022) *Osseointegrasi pada Perawatan Implan Gigi dengan Penambahan Platelet Rich Plasma (PRP) Sebuah Tinjauan Sistematis dan Meta Analisis*. Tesis Universitas Hasanuddin.

- Sengupta, P., Xu, Y., Wang, L., Widom, R., Smith, B.D., (2005) Collagen $\alpha 1(I)$ Gene (COL1A1) is Repressed by RFX Family. *The Journal of Biological Chemistry*. 280(22); 21004-21014.
- Setiawan, F., Wahjuningrum D.A., Utomo, D.N., (2021) The Property of Mesenchymal Stem Cells (MSCs) Secretome as a Bone Stimulator Candidate in Regeneration of Injured Bone. *Malaysia Journal of Medicine and Health Sciences*. 17(13): 98-106.
- Shuai, C., Mao, Z., Lu, H., Nie, Y., Hu, H., Peng, S., (2013) Fabrication of porous polyvinyl alcohol scaffold for bone tissue engineering via selective laser sintering. *Biofabrication*. 5(1)
- Shrivats A.R., Mcdermott, M.C., Hollinger, J.O., (2014) Bone tissue engineering: state of the union. *Drug Discovery Today*. 19(6)
- Stephania, M., Maria, F.M.C., Natália, R., Márcia, T.R., Daniel, A.B.L., Nayro, X.A., (2019) Protocols for Preparation of Platelet Rich Plasma (PRP) in Quarter Horses. *Pesq Vet Bras*. 39(8): 614-621.
- Sultan, N., Amin, L.E., Zaher, A.R., Scheven, B.A., Grawish, M.E., (2019) Dental Pulp Stem Cells: Novel cell - Based and Cell-Free Therapy for Peripheral Nerve Repair. *World J Stomatol*. 7(1): 1-19.
- Sun, T., Li, C.T., Xiong, L., Ning, Z., Leung, F., Peng, S. and Lu, W.W., (2017) miR-375-3p negatively regulates osteogenesis by targeting and decreasing the expression levels of LRP5 and β -catenin. *Plos one*. 12(2): 1-16.
- Swanson, W.B., Zhang, Z., Xiu, K., Gong, T., Eberle, M., Wang, Z., Ma, P.X., (2020) Scaffolds with controlled release of pro-mineralization exosomes to promote craniofacial bone healing without cell transplantation. *Acta Biomater*. 118: 215–232.
- Takeuchi R, Katagiri W, Endo S, Kobayashi T. 2019. Exosomes from Conditioned Media of Bone Marrow-derived Mesenchymal Stem Cells Promote Bone Regeneration by Enhancing Angiogenesis. *Plos One*. 14(11)
- Taylor, T.D., Laney, W.R., (1993) *Dental Implants: Are They for Me?* 2nd ed. Carol Stream, IL: Quintessence Publishing Co.
- Tetelepta, R., Machmud, E., (2015) Effect of Addition of Bioactive Materials on Dental Implant Based on the Histology Examination. *Makassar Dent J*. 4(4): 135-142.
- Vaidya, P., Mahale, S., Kale, S., Patil, A., (2017) Osseointegration – a review. *IOSR-JDMS*. 16(1): 45-8
- Wang, W., Liang X., Zheng, K., Ge, G., Chen, X., Xu, Y., Bai, J., Pan, G., Geng, D., (2022) Horizon of Exosome-mediated Bone Tissue Regeneration: The all-rounder Role in Biomaterial Engineering. *Materials Today Bio*. 16: 100355

- Winning, L., El, K.I.A., Lundy, F.T., (2019) A Comparative Analysis of the Osteogenic Potential of Dental Mesenchymal Stem Cells. *Stem Cells and Development*. 28(15): 1050-1058
- Wu, X., Liu, Y., Li, X., Wen, P., Zhang Y., Long, Y., Wang, X., Guo, Y., Xing, F., Gao, J., (2010) Preparation of aligned porous gelatin scaffolds by unidirectional freeze-drying method. *Acta Biomaterialia*. 6: 1167-1177
- Yang, G., Xiao, Z., Long, H., Ma, K., Zhang, J., Ren, X., Zhang, J., (2018) Assesment of The Characteristics and Biocompatibility of Gelatin Sponge Scaffolds Prepared by Various Crosslinking Methods. *Scientific Reports*. 8(1616): 1-13
- Yu, J., He, H., Tang, C., Zhang, G., Li, Y., Wang, R., Shi, J., Jin, Y., (2018) Differentiation potential of Stro-1+ dental pulp stem cells change during cell passaging. *BMC Cell Biology*. 11(1): 32
- Zhang, L., Jiao, G., Ren, S., Zhang, X., Li, C., Wu, W., Wang, H., Liu, H., Zhou, H. and Chen, Y., (2020) Exosomes from bone marrow mesenchymal stem cells enhance fracture healing through the promotion of osteogenesis and angiogenesis in a rat model of nonunion. *Stem Cell Research & Therapy*. 11(1): 1-15.
- Zhou, Y., Kosaka, N., Xiao, Z., and Ochiya, T., (2020) MSC-Exosomes in Regenerative Medicine. *Exosomes*. 17: 33-43