

DAFTAR PUSTAKA

- Ayukawa, Y., Yasukawa, E., Moriyama, Y., Ogino Y., Wada, H., Atsuta, I., & Koyano, K., 2009. Local application of statin promotes bone repair through the suppression of osteoclasts and the enhancement of osteoblasts at bone-healing sites in rats. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology*, 107(3), 336-342.
- Cruz, R., Moraschini, V., Calasans-Maia, M. D., de Almeida, D. C. F., Sartoretto, S. C., & Granjeiro, J. M. (2021). Clinical efficacy of simvastatin gel combined with polypropylene membrane on the healing of extraction sockets: A triple-blind, randomized clinical trial. *Clinical Oral Implants Research*, 32(6), 711-720.
- Czekanska, E. M., Stoddart, M. J., Richards, R. G., & Hayes, J. S. (2012). In search of an osteoblast cell model for in vitro research. *Eur Cell Mater*, 24(4), 1-17.
- Ding, Z. Y., Tan, Y., Peng, Q., Zuo, J., & Li, N. (2021). Novel applications of platelet concentrates in tissue regeneration. *Experimental and Therapeutic Medicine*, 21(3), 1-1.
- Donders, H. C. M., Veth, E. O., Edens, M. A., van't Hof, A. W. J., de Lange, J., & Loos, B. G. (2022). The Effect of Periodontal Treatment on the Reactive Hyperemia Index. A 1-Year Follow-Up Pilot Study. *Frontiers in Cardiovascular Medicine*, 9.
- Entschladen F., and Zänker, K. S., 2010, Cell Migration: Signalling and Mechanisms, *Translational Research in Biomedicine*, Vol. 2.
- Fiedler, J., Röderer, G., Günther, K.-P., & Brenner, R. E. (2002). BMP-2, BMP-4, and PDGF-bb stimulate chemotactic migration of primary human mesenchymal progenitor cells. *Journal of Cellular Biochemistry*, 87(3), 305-312.
- Fujioka-Kobayashi, M., Katagiri, H., Kono, M., Schaller, B., Zhang, Y., Sculean, A., & Miron, R. J. (2020). Improved growth factor delivery and cellular activity using concentrated platelet-rich fibrin (C-PRF) when compared with traditional injectable (i-PRF) protocols. *Clinical oral investigations*, 24(12), 4373-4383.
- Geurtzen, K., Knopf, F., Wehner, D., Huitema, L. F., Schulte-Merker, S., & Weidinger, G. (2014). Mature osteoblasts dedifferentiate in response to traumatic bone injury in the zebrafish fin and skull. *Development (Cambridge, England)*, 141(11), 2225-2234.
- Gollapudi, M., Bajaj, P., & Oza, R. R. (2022). Injectable Platelet-Rich Fibrin - A Revolution in Periodontal Regeneration. *Cureus*, 14(8), e28647.
- Khurana, K. (2017). Bone regeneration by tuning the drug release from the calcium phosphate scaffolds. *Universitat Politècnica de Catalunya*.
- Kornsuthisopon, C., Pirarat, N., Osathanon, T., & Kalpravidh, C. (2020). Autologous platelet-rich fibrin stimulates canine periodontal regeneration. *Scientific reports*, 10(1), 1-14.

- Kwon, T., Lamster, I. B., & Levin, L. (2021). Current concepts in the management of periodontitis. *International dental journal*, 71(6), 462-476.
- Liang, CC., Park, A. & Guan, JL. (2007). *In vitro* scratch assay: a convenient and inexpensive method for analysis of cell migration *in vitro*. *Nat Protoc* 2, 329–333.
- Lind, M., Deleuran, B., Thestrup-Pedersen, K., Søballe, K., Eriksen, E. F., & Bünger, C. (1995). Chemotaxis of human osteoblasts. Effects of osteotropic growth factors. *APMIS: acta pathologica, microbiologica, et immunologica Scandinavica*, 103(2), 140–146.
- Liu, C., Wu, Z., & Sun, H. C. (2009). The effect of simvastatin on mRNA expression of transforming growth factor-beta1, bone morphogenetic protein-2 and vascular endothelial growth factor in tooth extraction socket. *International journal of oral science*, 1(2), 90–98.
- Magan-Fernandez, A., Fernández-Barbero, J. E., O' Valle, F., Ortiz, R., Galindo-Moreno, P., & Mesa, F. (2018). Simvastatin exerts antiproliferative and differentiating effects on MG63 osteoblast-like cells: Morphological and immunocytochemical study. *Journal of periodontal research*, 53(1), 91–97.
- Malhotra, N., Kundabala, M., & Acharya, S. (2009). Current Strategies and Applications of Tissue Engineering in Dentistry—A Review Part 2. *Dental update*, 36(10), 639-646.
- Martinotti, S., & Ranzato, E. (2020). Scratch Wound Healing Assay. *Methods in molecular biology (Clifton, N.J.)*, 2109, 225–229.
- Miron, R. J., Chai, J., Zheng, S., Feng, M., Sculean, A., & Zhang, Y. (2019). A novel method for evaluating and quantifying cell types in platelet rich fibrin and an introduction to horizontal centrifugation. *Journal of biomedical materials research Part A*, 107(10), 2257-2271.
- Mu, Z., He, Q., Xin, L., Li, Y., Yuan, S., Zou, H., Shu, L., Song, J., Huang, Y., & Chen, T. (2020). Effects of injectable platelet rich fibrin on bone remodeling in combination with DBBM in maxillary sinus elevation: a randomized preclinical study. *American journal of translational research*, 12(11), 7312–7325.
- Muzio, L. L., Santarelli, A., Orsini, G., Meme, L., Mattioli-Belmonte, M., De Florio, I., ... & Bambini, F. (2013). MG63 and MC3T3-E1 osteoblastic cell lines response to raloxifene. *European Journal of Inflammation*, 11(3), 797-804.
- Sumida, R., Maeda, T., Kawahara, I., Yusa, J., & Kato, Y. (2019). Platelet-rich fibrin increases the osteoprotegerin/receptor activator of nuclear factor-κB ligand ratio in osteoblasts. *Experimental and Therapeutic Medicine*, 18(1), 358-365
- Pagkalos, J., Cha, J.M., Kang, Y., Heliotis, M., Tsiridis, E. and Mantalaris, A. (2010), Simvastatin induces osteogenic differentiation of murine embryonic stem cells. *J Bone Miner Res*, 25: 2470-2478.
- Papanou, P. N., Sanz, M., Buduneli, N., Dietrich, T., Feres, M., Fine, D. H., .. & Tonetti, M. S. (2018). Periodontitis: Consensus report of workgroup 2 of the 2017 World

- Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *Journal of periodontology*, 89, S173-S182.
- Petit, C., Batool, F., Bugueno, I. M., Schwinté, P., Benkirane-Jessel, N., & Huck, O. (2019). Contribution of statins towards periodontal treatment: a review. *Mediators of Inflammation*, 2019.
- Pfeilschifter, J., Wolf, O., Naumann, A., Minne, H. W., Mundy, G. R., & Ziegler, R. (1990). Chemotactic response of osteoblastlike cells to transforming growth factor beta. *Journal of bone and mineral research: the official journal of the American Society for Bone and Mineral Research*, 5(8), 825–830.
- Powers JM, Sakaguchi RL. Tissue engineering. In: Craig's Restorative Dental Materials 12th edn.: Mosby Elsevier, 2007; pp. 571–586.
- Pradeep, A. R., & Thorat, M. S. (2010). Clinical effect of subgingivally delivered simvastatin in the treatment of patients with chronic periodontitis: a randomized clinical trial. *Journal of periodontology*, 81(2), 214-222.
- Raafat, S. N., Amin, R. M., Elmazar, M. M., Khatib, M. M., & El-Khatib, A. S. (2018). The sole and combined effect of simvastatin and platelet rich fibrin as a filling material in induced bone defect in tibia of albino rats. *Bone*, 117, 60-69.
- Ricardo, S., Murdiastuti, K., Herawati, D. (2019). Pengaruh Aplikasi Gel Simvastatin 1,2%-Platelet-rich fibrin pada Open Flap Debridement terhadap Ekspresi Kolagen Tipe I (Kajian in vivo pada *Oryctolagus cuniculus*). *Universitas Gadjah Mada*.
- Rivera, J. C., Strohbach, C. A., Wenke, J. C., & Rathbone, C. R. (2013). Beyond osteogenesis: an in vitro comparison of the potentials of six bone morphogenetic proteins. *Frontiers in pharmacology*, 4, 125. <https://doi.org/10.3389/fphar.2013.00125>
- Rosenberg, D. R., Vega, M. P., Chaparro, A., Kernitsky, J. R., Andrade, C. X., Violant, D., & Nart, J. (2019). Association between the use of statins and periodontal status: a review. *Revista clínica de periodoncia, implantología y rehabilitación oral*, 12(1), 41-46.
- Shah, S. R., Werlang, C. A., Kasper, F. K., & Mikos, A. G. (2015). Novel applications of statins for bone regeneration. *National science review*, 2(1), 85–99.
- Sinjab, K., Zimmo, N., Lin, G. H., Chung, M. P., Shaikh, L., & Wang, H. L. (2017). The effect of locally delivered statins on treating periodontal intrabony defects: a systematic review and meta-analysis. *Journal of periodontology*, 88(4), 357-367.
- Sotobori, T., Ueda, T., Myoui, A., Yoshioka, K., Nakasaki, M., Yoshikawa, H., & Itoh, K. (2006). Bone morphogenetic protein-2 promotes the haptotactic migration of murine osteoblastic and osteosarcoma cells by enhancing incorporation of integrin beta1 into lipid rafts. *Experimental cell research*, 312(19), 3927–3938.
- Steller, D., Herbst, N., Pries, R., Juhl, D., & Hakim, S. G. (2019). Positive impact of Platelet-rich plasma and Platelet-rich fibrin on viability, migration and proliferation of osteoblasts and fibroblasts treated with zoledronic acid. *Scientific reports*, 9(1), 8310.

- Su P, Tian Y, Yang C, Ma X, Wang X, Pei J, Qian A. Mesenchymal Stem Cell Migration during Bone Formation and Bone Diseases Therapy. *Int J Mol Sci*. 2018 Aug 9;19(8):2343.
- Thiel, A., Reumann, M. K., Boskey, A., Wischmann, J., von Eisenhart-Rothe, R., & Mayer-Kuckuk, P. (2018). Osteoblast migration in vertebrate bone. *Biological Reviews*, 93(1), 350-363.
- Vicente-Manzanares M. and Horwitz A. R., 2011, Cell migration: an overview. *Methods Mol Biol*. 769:1-24.
- Wu, B., Wang, L., Yang, X., Mao, M., Ye, C., Liu, P., Yang, Z., Yang, X., Lei, D., & Zhang, C. (2016). Norepinephrine inhibits mesenchymal stem cell chemotaxis migration by increasing stromal cell-derived factor-1 secretion by vascular endothelial cells via NE/abrd3/JNK pathway. *Experimental cell research*, 349(2), 214–220.
- Wu, S., Xiao, Z., Song, J., Li, M., & Li, W. (2018). Evaluation of BMP-2 Enhances the Osteoblast Differentiation of Human Amnion Mesenchymal Stem Cells Seeded on Nano-Hydroxyapatite/Collagen/Poly(l-Lactide). *International journal of molecular sciences*, 19(8), 2171.
- Zhang, Z., Zhang, X., Zhao, D., Liu, B., Wang, B., Yu, W., Li, J., Yu, X., Cao, F., Zheng, G., Zhang, Y., & Liu, Y. (2019). TGF- β 1 promotes the osteoinduction of human osteoblasts via the PI3K/AKT/mTOR/S6K1 signalling pathway. *Molecular medicine reports*, 19(5), 3505–3518. <https://doi.org/10.3892/mmr.2019.10051>
- Zwittnig, K., Kirnbauer, B., Jakse, N., Schlenke, P., Mischak, I., Ghanaati, S., Al-Maawi, S., Végh, D., Payer, M., & Zrnc, T. A. (2022). Growth Factor Release within Liquid and Solid PRF. *Journal of clinical medicine*, 11(17), 5070.