

DAFTAR PUSTAKA

- Afewerki, S., Sheikhi, A., Kannan, S., Ahadian, S., & Khademhosseini, A. (2018). Gelatin-polysaccharide composite scaffolds for 3D cell culture and tissue engineering: Towards natural therapeutics. *Bioengineering & translational medicine*, 4(1), 96–115.
- 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.
- Al Madhoun, A., Sindhu, S., Haddad, D., Atari, M., Ahmad, R., & Al-Mulla, F. (2021). Dental Pulp Stem Cells Derived From Adult Human Third Molar Tooth: A Brief Review. *Frontiers in cell and developmental biology*, 9.
- Anitua, E., Troya, M., & Zalduendo, M. (2018). Progress in the use of dental pulp stem cells in regenerative medicine. *Cytotherapy*, 20(4), 479–498.
- Annunziata, M., & Guida, L. (2015). The Effect of Titanium Surface Modifications on Dental Implant Osseointegration. *Frontiers of oral biology*, 17, 62–77.
- Bar, J. K., Lis-Nawara, A., & Grelewski, P. G. (2021). Dental Pulp Stem Cell-Derived Secretome and Its Regenerative Potential. *International journal of molecular sciences*, 22(21).
- Baseri, M., Radmand, F., Hamed, R., Yousefi, M., & Kafil, H. S. (2020). Immunological Aspects of Dental Implant Rejection. *BioMed research international*, 2020.
- Bigueti, C. C., Cavalla, F., Silveira, E. M., Fonseca, A. C., Vieira, A. E., Tabanez, A. P., Rodrigues, D. C., Trombone, A., & Garlet, G. P. (2018). Oral implant osseointegration model in C57Bl/6 mice: microtomographic, histological, histomorphometric and molecular characterization. *Journal of applied oral science: revista FOB*, 26.
- Bruderer, M., Richards, R. G., Alini, M., & Stoddart, M. J. (2014). Role and regulation of RUNX2 in osteogenesis. *European cells & materials*, 28, 269–286.
- Brunello, G., Zanotti, F., Trentini, M., Zanolla, I., Pishavar, E., Favero, V., Favero, R., Favero, L., Bressan, E., Bonora, M., Sivolella, S., & Zavan, B. (2022). Exosomes Derived from Dental Pulp Stem Cells Show Different Angiogenic and Osteogenic Properties in Relation to the Age of the Donor. *Pharmaceutics*, 14(5), 908.

- Bueno, E. M., & Glowacki, J. (2009). Cell-free and cell-based approaches for bone regeneration. *Nature Reviews. Rheumatology*, 5(12), 685–697.
- Dalle Carbonare, L., Frigo, A., Francia, G., Davì, M. V., Donatelli, L., Stranieri, C., Brazzarola, P., Zatelli, M. C., Menestrina, F., & Valenti, M. T. (2012). Runx2 mRNA expression in the tissue, serum, and circulating non-hematopoietic cells of patients with thyroid cancer. *The Journal of clinical endocrinology and metabolism*, 97(7), E1249–E1256.
- d'Aquino, R., De Rosa, A., Lanza, V., Tirino, V., Laino, L. (2009). Human Mandible Bone Defect Repair by the Grafting of Dental Pulp Stem/Progenitor Cells and Collagen Sponge Biocomplexes. *Eur Cell Mater.* 18:75-83.
- De Pieri, A., Rochev, Y., Zeugolis, D.I., (2021). Scaffold-free Cell-based Tissue Engineering Therapies: Advances Shortfalls and Forecast. *Nature Partner Journals.* 18, 1-15.
- Dong, Z., Meng, X., Yang, W., Zhang, J., Sun, P., Zhang, H., Fang, X., Wang, D. A., & Fan, C. (2021). Progress of gelatin-based microspheres (GMSs) as delivery vehicles of drug and cell. *Materials Science & Engineering. C, Materials for Biological Applications*, 122.
- El Moshy, S., Radwan, I. A., Rady, D., Abbass, M., El-Rashidy, A. A., Sadek, K. M., Dörfer, C. E., & Fawzy El-Sayed, K. M. (2020). Dental Stem Cell-Derived Secretome/Conditioned Medium: The Future for Regenerative Therapeutic Applications. *Stem cells international*, 2020.
- Fujio, M., Xing, Z., Sharabi, N., Xue, Y., Yamamoto, A., Hibi, H., Ueda, M., Fristad, I., & Mustafa, K. (2017). Conditioned media from hypoxic-cultured human dental pulp cells promotes bone healing during distraction osteogenesis. *Journal of tissue engineering and regenerative medicine*, 11(7), 2116–2126.
- Gupta, R., Gupta, N., & Weber, DDS, K. K. (2022). *Dental Implants*. In StatPearls. StatPearls Publishing.
- Gronthos, S., Mankani, M., Brahimi, J., Robey, P. G., & Shi, S. (2000). Postnatal human dental pulp stem cells (DPSCs) in vitro and in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, 97(25), 13625–13630.
- González-González, A., García-Sánchez, D., Dotta, M., Rodríguez-Rey, J. C., & Pérez-Campo, F. M. (2020). Mesenchymal stem cells secretome: The cornerstone of cell-free regenerative medicine. *World journal of stem cells*, 12(12), 1529–1552.

- Hade, M. D., Suire, C. N., & Suo, Z. (2021). Mesenchymal Stem Cell-Derived Exosomes: Applications in Regenerative Medicine. *Cells*, *10*(8), 1959.
- Imanishi, Y., Hata, M., Matsukawa, R., Aoyagi, A., Omi, M., Mizutani, M., Naruse, K., Ozawa, S., Honda, M., Matsubara, T., & Takebe, J. (2021). Efficacy of extracellular vesicles from dental pulp stem cells for bone regeneration in rat calvarial bone defects. *Inflammation and regeneration*, *41*(1), 12.
- Janockova, J., Slovinska, L., Harvanova, D., Spakova, T., & Rosocha, J. (2021). New therapeutic approaches of mesenchymal stem cells-derived exosomes. *Journal of biomedical science*, *28*(1), 39.
- Kalluri, R., & LeBleu, V. S. (2020). The biology, function, and biomedical applications of exosomes. *Science (New York, N.Y.)*, *367*(6478).
- 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 & face medicine*, *12*, 5.
- Kichenbrand, C., Velot, E., Menu, P., & Moby, V. (2019). Dental Pulp Stem Cell-Derived Conditioned Medium: An Attractive Alternative for Regenerative Therapy. *Tissue engineering. Part B, Reviews*, *25*(1), 78–88.
- Komori, T. (2018). Runx2, an inducer of osteoblast and chondrocyte differentiation. *Histochemistry and cell biology*, *149*(4), 313–323.
- Komori, T. (2019). Regulation of Proliferation, Differentiation and Functions of Osteoblasts by Runx2. *International journal of molecular sciences*, *20*(7), 1694.
- Kusuma, G. D., Carthew, J., Lim, R., & Frith, J. E. (2017). Effect of the Microenvironment on Mesenchymal Stem Cell Paracrine Signaling: Opportunities to Engineer the Therapeutic Effect. *Stem cells and development*, *26*(9), 617–631.
- Lee, J., & Bance, M. L. (2019). Physiology of Osseointegration. *Otolaryngologic clinics of North America*, *52*(2), 231–242.
- Lee, S. H., & Shin, H. (2007). Matrices and scaffolds for delivery of bioactive molecules in bone and cartilage tissue engineering. *Advanced drug delivery reviews*, *59*(4-5), 339–359.
- Liang, M., Liu, W., Peng, Z., Lv, S., Guan, Y., An, G., Wang, Y. (2019). The therapeutic effect of secretome from human umbilical cord-derived mesenchymal stem cells in age-related osteoporosis. *Artificial Cells, Nanomedicine, and Biotechnology*, *47*(1), 1357–1366.

- Liu, Y., Rath, B., Tingart, M., Eschweiler. (2019). Role of Implants Surface Modification in Osseointegration: A Systemic Review. *J Biomed Mater Res.* 2020; 108A: 470-484.
- Luo, L., He, Y., Wang, X., Key, B., Lee, B. H., Li, H., & Ye, Q. (2018). Potential Roles of Dental Pulp Stem Cells in Neural Regeneration and Repair. *Stem cells international*, 2018.
- Loh, Q. L., & Choong, C. (2013). Three-dimensional scaffolds for tissue engineering applications: role of porosity and pore size. *Tissue engineering. Part B, Reviews*, 19(6), 485–502.
- Long, H., Ma, K., Xiao, Z., Ren, X., Yang, G., (2017). Preparation and Characteristic of Gelatin Sponges Crosslinked by Microbial Transglutaminase. *Peer J.* 5: e3665.
- Lukin, I., Erezuma, I., Maeso, L., Zarate, J., Desimone, M. F., Al-Tel, T. H., Dolatshahi-Pirouz, A., & Orive, G. (2022). Progress in Gelatin as Biomaterial for Tissue Engineering. *Pharmaceutics*, 14(6), 1177.
- 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.
- Öncü, E., & Alaaddinoğlu, E. E. (2015). The effect of platelet-rich fibrin on implant stability. *The International journal of oral & maxillofacial implants*, 30(3), 578–582.
- Padial-Molina, M., O'Valle, F., Lanis, A., Mesa, F., Dohan Ehrenfest, D. M., Wang, H. L., & Galindo-Moreno, P. (2015). Clinical Application of Mesenchymal Stem Cells and Novel Supportive Therapies for Oral Bone Regeneration. *BioMed research international*, 2015.
- Parithimarkalaignan, S., & Padmanabhan, T. V. (2013). Osseointegration: an update. *Journal of Indian Prosthodontic Society*, 13(1), 2–6.
- Phinney, D. G., & Pittenger, M. F. (2017). Concise Review: MSC-Derived Exosomes for Cell-Free Therapy. *Stem cells (Dayton, Ohio)*, 35(4), 851–858.
- Pokrovskaya, LA., Zubareva, EV., Nadezhdin, SV., Lysenko, AS., Litovkina, TL. (2020). Biological activity of mesenchymal stem cells secretome as a basis for cell-free therapeutic approach. *Research Results in Pharmacology* 6(1): 57–68.

- Priyan, S., Ramalingam, S., Udhayakumar, Y. (2019). Human Dental Pulp Stem Cells and Its Applications in Regenerative Medicine – A Literature Review. *Journal of Global Oral Health*, 2(1): 59-67.
- Shen, X., Song, S., Chen, N., Liao, J., & Zeng, L. (2021). Stem cell-derived exosomes: A supernova in cosmetic dermatology. *Journal of cosmetic dermatology*, 20(12), 3812–3817.
- Smeets, R., Stadlinger, B., Schwarz, F., Beck-Broichsitter, B., Jung, O., Precht, C., Kloss, F., Gröbe, A., Heiland, M., & Ebker, T. (2016). Impact of Dental Implant Surface Modifications on Osseointegration. *BioMed research international*, 2016.
- Sutanto, D., Satari, M. H., Hernowo, B. S., Priosoeryanto, B. P., Septawendar, R. (2021). In vivo histomorphological evaluation of geopolymer-carbonated apatite nanocomposites implanted on rabbit tibia at early bone healing. *Padjajaran journal of dentistry*, 33(1), 64-73.
- Takeuchi, R., Katagiri, W., Endo, S., & Kobayashi, T. (2019a). Exosomes from conditioned media of bone marrow-derived mesenchymal stem cells promote bone regeneration by enhancing angiogenesis. *PLoS ONE*, 14(11)
- Tang, Y. T., Huang, Y. Y., Zheng, L., Qin, S. H., Xu, X. P., An, T. X., Xu, Y., Wu, Y. S., Hu, X. M., Ping, B. H., & Wang, Q. (2017). Comparison of isolation methods of exosomes and exosomal RNA from cell culture medium and serum. *International journal of molecular medicine*, 40(3), 834–844.
- Tang, Y., Zhou, Y., & Li, H. J. (2021). Advances in mesenchymal stem cell exosomes: a review. *Stem cell research & therapy*, 12(1), 71.
- Villatoro, A.J., Martin-Astorga, M.d.C., Alcholoado, C., Becerra, J., (2021). Proteomic Anlalysis of the Secretome and Exosomes of Feline Adipose-Derived Mesenchymal Stem Cells. *Animals*. 11:295.
- Vimalraj, S., Arumugam, B., Miranda, P. J., & Selvamurugan, N. (2015). Runx2: Structure, function, and phosphorylation in osteoblast differentiation. *International journal of biological macromolecules*, 78, 202–208.
- Vizoso, F. J., Eiro, N., Cid, S., Schneider, J., & Perez-Fernandez, R. (2017). Mesenchymal Stem Cell Secretome: Toward Cell-Free Therapeutic Strategies in Regenerative Medicine. *International journal of molecular sciences*, 18(9), 1852.

- Vordemvenne, T., Wähnert, D., Koettnitz, J., Merten, M., Fokin, N., Becker, A., dkk., (2020). Bone Regeneration: A Novel Osteoinductive Function of Spongostan by the Interplay between Its Nano and Microtopography. *Cells*, 9(654):1-17.
- Wang, Y., Zhang, Y., & Miron, R. J. (2016). Health, Maintenance, and Recovery of Soft Tissues around Implants. *Clinical implant dentistry and related research*, 18(3), 618–634.
- Xu, X., Zhang, C., Trotter, T. N., Gowda, P. S., Lu, Y., Ponnazhagan, S., Javed, A., Li, J., & Yang, Y. (2020). Runx2 Deficiency in Osteoblasts Promotes Myeloma Progression by Altering the Bone Microenvironment at New Bone Sites. *Cancer research*, 80(5), 1036–1048.
- Yang, G., Xiao, Z., Long, H., Ma, K., Zhang, J., Ren, X., & Zhang, J. (2018). Assessment of the characteristics and biocompatibility of gelatin sponge scaffolds prepared by various crosslinking methods. *Scientific reports*, 8(1), 1616.
- Yao, C., Yang, B., Li, Y. E. (2022). Remodeling Effects of the Combination of GGT Scaffolds, Percutaneous Electrical Stimulation, and Acupuncture on Large Bone Defects in Rats. *Frontiers in bioengineering and biotechnology*, 10.
- Zafar, MS., & Khurshid, Z. (2020). *Dental Implants Materials, Coatings, Surface Modifications and Interfaces with Oral Tissues*. Elsevier Ltd, United Kingdom.
- Zhang, B., Yeo, R. W., Tan, K. H., & Lim, S. K. (2016). Focus on Extracellular Vesicles: Therapeutic Potential of Stem Cell-Derived Extracellular Vesicles. *International journal of molecular sciences*, 17(2), 174.
- Zhang, Y., Bi, J., Huang, J., Tang, Y., Du, S., & Li, P. (2020). Exosome: A Review of Its Classification, Isolation Techniques, Storage, Diagnostic and Targeted Therapy Applications. *International journal of nanomedicine*, 15, 6917–6934.