

DAFTAR PUSTAKA

- Alahmad, G., Aljohani, S., & Najjar, M. F. 2020. Ethical challenges regarding the use of stem cells: interviews with researchers from Saudi Arabia. *BMC Medical Ethics*. <https://doi.org/10.1186/s12910-020-00482-6>
- Baer, P. C. 2014. Adipose-derived mesenchymal stromal/stem cells: An update on their phenotype in vivo and in vitro. *WJSC*. 6(3): 256-265.
- Berebichez-Fridman, R., Montero-Olvera, P. R. 2018. Sources and Clinical Applications of Mesenchymal Stem Cells: State-of-the-art review. *Sultan Qaboos University Medical Journal*. 18(3) : 264–277.
- Caffi, V., Espinosa, G., Gajardo, G., Morales, N., Duran, M. C., Uberti, B., Morán, G., Plaza, A., & Henríquez, C. 2020. *Pre-conditioning of Equine Bone Marrow-Derived Mesenchymal Stromal Cells Increases Their Immunomodulatory Capacity*. *Frontiers in Veterinary Science*. <https://doi.org/10.3389/fvets>.
- Castilla-Casadiago, D. A., Reyes-Ramos, A. M., Domenech, M., Almodóvar, J. 2019. Effects of Physical, Chemical, and Biological Stimulus on h-SPM Expansion and Their Functional Characteristics. *Annals of Biomedical Engineering*. *Biomedical Engineering Society*. 48.
- Chu, X., Xu, B., Gao, H., Li, B. Y., Liu, Y., Reiter, J. L., Wang, Y. 2019. Lipopolysaccharides Improve Mesenchymal Stem Cell-Mediated Cardioprotection by MyD88 and stat3 Signaling in a Mouse Model of Cardiac Ischemia/Reperfusion Injury. *Stem Cells and Development*. 28(9) : 1-29.
- Clément, F., Grockowiak, E., Zylbersztejn, F., Fossard, G., Gobert, S., Maguer-Satta, V. 2017. Stem cell manipulation, gene therapy and the risk of cancer stem cell emergence. *Stem Cell Investigation*. 4(7) : 1-15.
- Coudriet, G. M., He, J., Trucco, M., Mars, W. M., & Piganelli, J. D. 2010. *Hepatocyte Growth Factor Modulates Interleukin-6 Production in Bone Marrow Derived Macrophages: Implications for Inflammatory Mediated Diseases*. *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0015384>
- Crisostomo, & Wang. 2008. *Human mesenchymal stem cells stimulated by TNF- α , LPS, or hypoxia produce growth factors by an NF κ B- but not JNK-dependent mechanism*. *American Journal of Physiology*. Retrieved February 5, 2024, from <https://journals.physiology.org/doi/full/10.1152/ajpcell.00437.2007>
- Damasceno, P. K. F., De Santana, T. A., Santos, G. C., Orge, I. D., Silva, D. N., Albuquerque, J. F., Golinelli, G., Grisendi, G., Pinelli, M., Santos, R. R. D., Dominici, M., Soares, M. B. P. 2020. Genetic Engineering as a Strategy to Improve the Therapeutic Efficacy of Mesenchymal Stem/Stromal Cells in Regenerative Medicine. *Frontiers in Cell and Developmental Biology*. 8(737) : 1-24.
- Daneshmandi, L., Shah, S., Jafari, T., Bhattacharjee, M., Momah, D., Saveh-Shemshaki, N., Lo, K. W., Laurencin, C. T. 2020. Emergence of the Stem Cell Secretome in Regenerative Engineering. *A Cell Press journal*. 38(12) : 1373 – 1384.

- DeGeorge, B. R., Rosenberg, M. J., Eckstein, V., Gao, E., Herzog, N., Katus, H. A., Koch, W. J., Frey, N., & Most, P. 2008. BMP-2 and FGF-2 Synergistically Facilitate Adoption of a Cardiac Phenotype in Somatic Bone Marrow c-kit⁺/Sca-1⁺ Stem Cells. *Clinical and Translational Science*. <https://doi.org/10.1111/j.1752-8062.2008.00034.x>
- El-Kadiry, A. E. H., Rafei, M., Shammaa, R. 2021. Cell Therapy: Types, Regulation, and Clinical Benefits. *Frontiers*. 8(2021) : 1-24.
- Epsztejn, S., Litman, Eiges, R. 2010. Genetic manipulation of human embryonic stem cells. *Springer Protocoles*. 584(2010) : 387–411.
- Estrada, L. D., Ahumada, P., Cabrera, D., Arab, J. P. 2019. Liver Dysfunction as a Novel Player in Alzheimer's Progression: Looking Outside the Brain. *Frontiers in Aging Neuroscience*. 11(174) : 1-7.
- Estrada, R., Li, N., Sarojini, H., An, J., Lee, M. J., Wang, E. (N.D.). Secretome From Mesenchymal Stem Cells Induces Angiogenesis Via Cyr61. *Journal Of Cellular Physiology*. 219(3) : 563-571.
- Ferreira, J. R., Teixeira, G. Q., Santos, S. G., Barbosa, M. A., Almeida-Porada, G., Gonçalves, R. M. 2018. Mesenchymal Stromal Cell Secretome: Influencing Therapeutic Potential by Cellular Pre-conditioning. *Frontiers*. 9(2837) : 1-17.
- Han, Y., Yang, J., Fang, J., Zhou, Y., Candi, E., Wang, J., Hua, D., Shao, C., & Shi, Y. 2022. The secretion profile of mesenchymal stem cells and potential applications in treating human diseases. *Signal Transduction and Targeted Therapy*. <https://doi.org/10.1038/s41392-022-00932-0>
- Hoang, D. M., Pham, P. T., Bach, T. Q., L. Ngo, A. T., Nguyen, Q. T., K. Phan, T. T., Nguyen, G. H., T. Le, P. T., Hoang, V. T., Forsyth, N. R., Heke, M., Nguyen, L. T. 2022. Stem cell-based therapy for human diseases. *Signal Transduction and Targeted Therapy*. 7(272) : 1-41.
- Hu, C., Zhao, L., Zhang, L., Bao, Q., Li, L. 2020. Mesenchymal stem cell-based cell-free strategies: safe and effective treatments for liver injury. *Stem Cell Research & Therapy*. 11(377) : 1-12.
- Hu, W., Yang, J., Xue, J., Ma, J., Wu, S., Wang, J., Xu, R., Wei, J., Wang, Y., Wang, S., Liu, X. 2023. Secretome of hESC-Derived SPM-like Immune and Matrix Regulatory Cells Mitigate Pulmonary Fibrosis through Antioxidant and Anti-Inflammatory Effects. *Biomedicines*. 11(2) : 1-19.
- Jammes, M., Contentin, R., Audigié, F., Cassé, F., & Galéra, P. 2023. Effect of pro-inflammatory cytokine priming and storage temperature of the mesenchymal stromal cell (SPM) secretome on equine articular chondrocytes. *Frontiers in Bioengineering and Biotechnology*. <https://doi.org/10.3389/fbioe.2023.1204737>
- Jimenez-Puerta, G. J., Marchal, J. A., López-Ruiz, E., & Gálvez-Martín, P. 2020. Role of Mesenchymal Stromal Cells as Therapeutic Agents: Potential Mechanisms of Action and Implications in Their Clinical Use. *J. Clin. Med*. 9(2) : 1-16.
- Takehara, Y., Yabuuchi, A., Ezoe, K., Kuroda, T., Yamadera, R., Sano, C., Murata, N., Aida, T., Nakama, K., Aono, F., Aoyama, N., Kato, K., & Kato, O. 2013. *The restorative effects of adipose-derived mesenchymal stem cells on damaged ovarian function*. Laboratory Investigation. <https://doi.org/10.1038/labinvest.2012.167>

- Kurşun, O., Yemişçi, M., Van Den Maagdenberg, A. M. J. M., & Karataş, H. 2021. Migraine and neuroinflammation: the inflammasome perspective. *Journal of Headache and Pain*. <https://doi.org/10.1186/s10194-021-01271-1>
- Lee, S. C., Jeong, H. J., Lee, S. K., Kim, S. J. 2015. Lipopolysaccharide preconditioning of adipose-derived stem cells improves liver-regenerating activity of the secretome - *Stem Cell Research & Therapy*. *Stem Cell Research & Therapy*. 6(75) : 1-11.
- Mei, Y., Zhou, W., Zhang, X., Wei, X., Feng, Z. 2013. Lipopolysaccharides Shapes the Human Wharton's Jelly-Derived Mesenchymal Stem Cells in Vitro. *Cellular Physiology and Biochemistry*. 32 (2): 390–401.
- Műzes, G., & Sípó, F. 2022. Mesenchymal Stem Cell-Derived Secretome: A Potential Therapeutic Option for Autoimmune and Immune-Mediated Inflammatory Diseases. *Cells*. <https://doi.org/10.3390/cells11152300>
- Nadesh, R., Menon, K. N., Biswas, L., Mony, U., Iyer, K. S., Vijayaraghavan, S., Nambiar, A., Nair, S. 2021. Adipose derived mesenchymal stem cell secretome formulation as a biotherapeutic to inhibit growth of drug resistant triple negative breast cancer. *Scientific Reports*. 11(2021) : 1-13.
- Nakamura, T., Mizuno, S. 2010. The discovery of Hepatocyte Growth Factor (HGF) and its significance for cell biology, life sciences and clinical medicine. *Proceedings of the Japan Academy, Series B*, 86(6), 588–610.
- Nakamura. 2019. Hepatocyte growth factor as mitogen, motogen and morphogen, and its roles in organ regeneration. *Pubmed*. 24:195-213.
- Nwigwe, L. 2019. Embryonic Stem Cell Research. *Voices in Bioethics*. 5(2019) : 1-5.
- Ohmichi, H., Koshimizu, U., Matsumoto, K., Nakamura, T. 1998. Hepatocyte growth factor (HGF) acts as a mesenchyme-derived morphogenic factor during fetal lung development. *Development*. 125 (7): 1315–1324.
- P. De Miguel, M., Fuentes-Julián, S., & Alcaina, Y. 2010. Pluripotent Stem Cells: Origin, Maintenance and Induction. *Stem Cell Reviews and Reports*, 6(4) : 633–649.
- Park, Jung, & Das. 2020. *In vivo priming of human mesenchymal stem cells with hepatocyte growth factor-engineered mesenchymal stem cells promotes therapeutic potential for cardiac repair*. *Science Advances*. Retrieved February 5, 2024, from <https://www.science.org/doi/full/10.1126/sciadv.aay6994>
- Park, S. R., Kim, J. W., Jun, H. S., Roh, J. Y., Lee, H. Y., Hong, I. S. 2017. Stem Cell Secretome and Its Effect on Cellular Mechanisms Relevant to Wound Healing. *Molecular Therapy*. 26(2) : 606 – 617.
- Prasanna, S. J., Gopalakrishnan, D., Shankar, S. R., & Vasandan, A. B. 2010. *Pro-Inflammatory Cytokines, IFN γ and TNF α , Influence Immune Properties of Human Bone Marrow and Wharton Jelly Mesenchymal Stem Cells Differentially*. <https://doi.org/10.1371/journal.pone.0009016>
- Seoung Hoon. 2018. The advantages and limitations of mesenchymal stem cells in clinical application for treating human diseases. *Elsevier Osteoporosis and Sarcopenia*. 14(4) : 150.
- Skrzypczak-Wiercioch, A., & Sałat, K. 2022. *Lipopolysaccharide-Induced Model of Neuroinflammation: Mechanisms of Action, Research Application and*

- Future Directions for Its Use. Molecules.*
<https://doi.org/10.3390/molecules27175481>
- Tan, M. I., Alfarafisa, N. M., Septiani, P., Barlian, A., Firmansyah, M., Faizal, A., Melani, L., Nugrahapraja, H. 2022. Potential Cell-Based and Cell-Free Therapy for Patients with COVID-19. *Cells*. 11(15) : 1-20.
- Teixeira, F. G., Salgado, A. J. 2019. Mesenchymal stem cells secretome: current trends and future challenges. *Neural Regeneration Research*. 15(1) : 75-77.
- Ti, D., Hao, H., Tong, C., Liu, J., Dong, L., Zheng, J., Zhao, Y., Liu, H., Fu, X., Han, W. 2015. LPS-preconditioned mesenchymal stromal cells modify macrophage polarization for resolution of chronic inflammation via exosome-shuttled let-7b. *J Transl Med*. 13(308) : 1-14.
- Varkouhi, A. K., Monteiro, A. P. T., Tsoporis, J. N., Mei, S. H. J., Stewart, D. J., Santos, C. C. D. 2020. Genetically Modified Mesenchymal Stromal/Stem Cells: Application in Critical Illness. *Springer*. 16(2020) :812–827.
- Vasilevich, A.S., Vermeulen, S., Kamphuis, M., Roumans, N., Eroumé, S., Hebels, D.G.A.J., van de Peppel, J., Reihls, R., Beijer, N.R.M., Carlier, A., Carpenter, A.E., Singh, S. dan de Boer, J. 2020. On the correlation between material-induced cell shape and phenotypical response of human mesenchymal stem cells. *Scientific Reports*, 10(1): 1–15.
- 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. *Int. J. Mol. Sci*. 18(1852) : 1-24.
- Wang, H. L., Zheng, R., Chen, Q., Shao, J., Yu, J., & Hu, S. (2017, September 29). *Mesenchymal stem cells microvesicles stabilize endothelial barrier function partly mediated by hepatocyte growth factor (HGF)*. *Stem Cell Research & Therapy*. <https://doi.org/10.1186/s13287-017-0662-7>
- Wiercioch, A. S., Sałat, K. 2022. Lipopolysaccharide-Induced Model of Neuroinflammation: Mechanisms of Action, Research Application and Future Directions for Its Use. *Molecules*. 27(17) : 1-24.
- Yao, Y., Zhang, F., Wang, L., Zhang, G., Wang, Z., Chen, J., Gao, X. 2009. Lipopolysaccharide preconditioning enhances the efficacy of mesenchymal stem cells transplantation in a rat model of acute myocardial infarction. *Journal of Biomedical Science*, 16(1) : 1-11.
- Yu, S., Wang, G., Shi, Y., Xu, H., Zheng, Y., & Yang, C. (2020, February 3). MCMs in Cancer: Prognostic Potential and Mechanisms. *Analytical Cellular Pathology*. <https://doi.org/10.1155/2020/3750294>
- Zhao, Y., Tian, P., Han, F., Zheng, J., Xia, X., Xue, W., Ding, X., Ding, C. 2017. 小鼠脾脏、腹腔和骨髓源性巨噬细胞特征比较. *Journal of Zhejiang University-SCIENCE B*. 18(2) : 1055-1063.
- Zhuang, W. Z., Lin, Y. H., Su, L. J., Wu, M. S., Jeng, H. Y., Chang, H. C., Huang, Y. H., Ling, T. Y. 2021. Mesenchymal stem/stromal cell-based therapy: mechanism, systemic safety and biodistribution for precision clinical applications. *Journal of Biomedical Science*. 28(28) : 1-38.