



DAFTAR PUSTAKA

- Ali, A. (2021). Pathophysiology of osteoarthritis and Current Treatment. *Zagazig Veterinary Journal*. 49(1): 13-26.
- Anderson, K. L., O'Neill, D. G., Brodbelt, D. C., Church, D. B., Meeson, R. L., Sargan, D., Summers, J. F., Zulch, H., Collins, L. M. (2018). Prevalence, duration and risk factors for appendicular osteoarthritis in a UK dog population under primary veterinary care. *Scientific Reports*. 2018(8): 5641.
- Baccarin, R. Y. A., Seidel, S. R. T., Michelacci, Y. M., Tokawa, P. K. A., Oliveira, T. M. (2022). Osteoarthritis: a common disease that should be avoided in the athletic horse's life. *Anim. Front.* 12(3): 25-36.
- Bao, Z., Chen, M., Li, C., Shan, Q., Wang, Y., & Yang, W. (2022). Monosodium iodoacetate-induced subchondral bone microstructure and inflammatory changes in an animal model of osteoarthritis. *Open Life Sciences*. 17(1): 781-793.
- Burrage, P. S., Mix, K. S., & Brinckerhoff, C. E. (2006) Matrix metalloproteinases: role in arthritis. *Front Biosci*. 11: 529–543
- Catarino, J., Carvalho, P., Santos, S., Martins, Â., & Requicha, J. (2020). Treatment of canine osteoarthritis with allogeneic platelet-rich plasma: review of five cases. *Open Veterinary Journal*. 10(2): 226-231.
- Chemel, M., Brion, R., Segaliny, A. I., Lamora, A., Charrier, C., Brulin, B., & Verrecchia, F. (2017). Bone morphogenetic protein 2 and transforming growth factor β 1 inhibit the expression of the proinflammatory cytokine IL-34 in rheumatoid arthritis synovial fibroblasts. *The American journal of pathology*. 187(1): 156-162.
- Chen, H., Tan, X. N., Hu, S., Liu, R. Q., Peng, L. H., Li, Y. M., & Wu, P. (2021). Molecular mechanisms of chondrocyte proliferation and differentiation. *Frontiers in cell and developmental biology*. 9: 664168.
- Chen, Z., Lin, C. X., Song, B., Li, C. C., Qiu, J. X., Li, S. X., & Ding, Y. (2020). Spermidine activates RIP1 deubiquitination to inhibit TNF- α -induced NF- κ B/p65 signaling pathway in osteoarthritis. *Cell death & disease*. 11(7): 503.
- Daly, M. E. (2011). Determinants of platelet count in humans. *Haematologica*. 96(1): 10-13
- Davis, S., Roldo, M., Blunn, G., Tozzi, G., & Roncada, T. (2021). Influence of the mechanical environment on the regeneration of osteochondral defects. *Frontiers in Bioengineering and Biotechnology*. 9: 603408.



- De Souza, M. V. 2016. Part 1: Relationship between clinical and radiographic examination for the diagnosis. *Brazilian Archives of Biology and Technology*. 59: e16150024
- Decker, R. S., Koyama, E., & Pacifici, M. (2015). Articular cartilage: structural and developmental intricacies and questions. *Current osteoporosis reports*. 13: 407-414.
- Eschweiler, J., Horn, N., Rath, B., Betsch, M., Baroncini, A., Tingart, M., & Migliorini, F. (2021). The biomechanics of cartilage—An overview. *Life*. 11(4): 302.
- Fox, A. J. S., Bedi, A., & Rodeo, S. A. (2009). The basic science of articular cartilage: structure, composition, and function. *Sports health*. 1(6): 461-468.
- Gao, J., Xia, Z., Mary, H. B., Joseph, J., Luo, J. N., & Joshi, N. (2022). Overcoming barriers for intra-articular delivery of disease-modifying osteoarthritis drugs. *Trends in pharmacological sciences*. 43(3): 171-187.
- Giusti, I., D'Ascenzo, S., Macchiarelli, G., & Dolo, V. (2020). In vitro evidence supporting applications of platelet derivatives in regenerative medicine. *Blood Transfusion*. 18(2): 117-129
- Goldring, M. B., & Marcu, K. B. (2009). Cartilage homeostasis in health and rheumatic diseases. *Arthritis research & therapy*. 11: 1-16.
- Gutiérrez, C. M., López, C., Giraldo, C. E., & Carmona, J. U. (2017). Study of a two-step centrifugation protocol for concentrating cells and growth factors in bovine platelet-rich plasma. *Veterinary Medicine International*. 2017: 1950401
- Han, B., Li, Q., Wang, C., Chandrasekaran, P., Zhou, Y., Qin, L., Liu, X. S., Enomoto-Iwamoto, M., Kong, D., Iozzo, R. V., Birk, D. E., & Han, L. (2021). Differentiated activities of decorin and biglycan in the progression of post-traumatic osteoarthritis. *Osteoarthritis and cartilage*. 29(8): 1181-1192.
- Han, B., Li, Q., Wang, C., Patel, P., Adams, S. M., Doyran, B., Nia, H. T., Oftadeh, R., Zhou, S., Li, C. Y., Liu, X. S., Lu, X. L., Enomoto-Iwamoto, M., Qin, L., Mauck, R. L., Iozzo, R. V., Birk, D. E., & Han, L. (2019). Decorin regulates the aggrecan network integrity and biomechanical functions of cartilage extracellular matrix. *ACS nano*. 13(10): 11320-11333.
- He, M., Guo, X., Li, T., Jiang, X., Chen, Y., Yuan, Y., Chen, B., Yang, G., Fan, Y., Liang, Z., Armstrong, D. G., dan Deng W. 2020. Comparison of Allogeneic Platelet-rich Plasma With Autologous Platelet-rich Plasma for the Treatment of Diabetic Lower Extremity Ulcers. *Cell Transplantation*, 29: 1-9.
- Janusz, M. J., Bendele, A. M., Brown, K. K., Taiwo, Y. O., Hsieh, L., & Heitmeyer, S. A. (2002). Induction of osteoarthritis in the rat by surgical tear of the



- meniscus: inhibition of joint damage by a matrix metalloproteinase inhibitor. *Osteoarthritis and Cartilage*. 10(10): 785-791.
- Karahan, S., Kincaid, S. A., Kammermann, J. R., & Wright, J. C. (2001). Evaluation of the rat stifle joint after transection of the cranial cruciate ligament and partial medial meniscectomy. *Comparative medicine*. 51(6): 504-512.
- Kanwat, H., Singh, D. M., Kumar, C. D., Alka, B., Biman, S., dan Aman, H. (2017). The effect of intra-articular allogeneic platelet rich plasma in Dunkin-Hartley guinea pig model of knee osteoarthritis. *Muscles, Ligaments and Tendons Journal*. 7(3): 426-434.
- Kim, J. I., Bae, H. C., Park, H. J., Lee, M. C., & Han, H. S. (2019). Effect of Storage Conditions and Activation on Growth Factor Concentration in Platelet-Rich Plasma. *Journal of Orthopaedic Research*. 38(4): 777-784.
- Lange-Consiglio, A., Garlappi, R., Spelta, C., Idda, A., Comazzi, S., Rizzi, R., & Cremonesi, F. (2021). Physiological Parameters to Identify Suitable Blood Donor Cows for Preparation of Platelet Rich Plasma. *Animals*. 11(8): 2296.
- Li, C., Ha, P., Jiang, W., Haveles, C. S., & Zheng, Z. (2019). Fibromodulin–A New Target of Osteoarthritis Management?. *Frontiers in Pharmacology*. 10: 492043.
- Liang, Y., Li, J., Wang, Y., He, J., Chen, L., Chu, J., & Wu, H. (2022). Platelet rich plasma in the repair of articular cartilage injury: A narrative review. *Cartilage*. 13(3): 1-16.
- Liu, T., Zhang, L., Joo, D., & Sun, S. C. (2017). NF-κB signaling in inflammation. *Signal transduction and targeted therapy*. 2(1): 1-9.
- Liu, S., Deng, Z., Chen, K., Jian, S., Zhou, F., Yang, Y., Fu, Z., Xie, H., Xiong, J., & Zhu, W. (2022). Cartilage tissue engineering: From proinflammatory and anti-inflammatory cytokines to osteoarthritis treatments. *Molecular Medicine Reports*. 25(3): 1-15.
- Lotz M. (1999). The role of nitric oxide in articular cartilage damage. *Rheum Dis Clin North Am*. 25: 269–282.
- Luo, Y., Sinkeviciute, D., He, Y., Karsdal, M., Henrotin, Y., Mobasher, A., Ommerfjord, P & Bay-Jensen, A. (2017). The minor collagens in articular cartilage. *Protein & cell*. 8(8): 560-572.
- Maehara H, Sotome S, Yoshii T, Torigoe I, Kawasaki Y, Sugata Y, Yuasa M, Hirano M, Mochizuki N, Kikuchi M, Shinomiya K, Okawa A. (2010). Repair of large osteochondral defects in rabbits using porous hydroxyapatite/collagen (HAp/Col) and fibroblast growth factor-2 (FGF-2). *J Orthop Res*. 28: 677-686



- Magni, A., Agostoni, P., Bonezzi, C., Massazza, G., Menè, P., Savarino, V., & Fornasari, D. (2021). Management of osteoarthritis: expert opinion on NSAIDs. *Pain and Therapy*. 10(2): 783-808.
- McDermott, J. E., Pezzanite, L., Goodrich, L., Santangelo, K., Chow, L., Dow, S., dan Wheat, W. (2021). Role of Innate Immunity in Initiation and Progression of Osteoarthritis, with Emphasis on Horses. *Animals*. 2021(11): 3247.
- Melchiorri C, Meliconi R, Frizziero L, Silvestri T, Pulsatelli L, Mazzetti I, Borzì RM, Uggioni M, Facchini A. (1998). Enhanced and coordinated in vivo expression of inflammatory cytokines and nitric oxide synthase by chondrocytes from patients with osteoarthritis. *Arthritis Rheum*. 41: 2165–2174
- Miyakoshi N, Kobayashi M, Nozaka K, Okada K, Shimada Y, Itoi E. (2005). Effects of intraarticular administration of basic fibroblast growth factor with hyaluronic acid on osteochondral defects of the knee in rabbits. *Arch Orthop Trauma Surg*. 125: 683–692.
- Moqbel, S. A. A., He, Y., Xu, L., Ma, C., Ran, J., Xu, K., & Wu, L. (2020). Rat chondrocyte inflammation and osteoarthritis are ameliorated by madecassoside. *Oxidative medicine and cellular longevity*. 2020: 7540197
- Mora, J. C., Przkora, R., & Cruz-Almeida, Y. (2018). Knee osteoarthritis: pathophysiology and current treatment modalities. *Journal of pain research*. 11: 2189–2196.
- Musco, N., Vassalotti, G., Mastellone, V., Cortese, L., Della Rocca, G., Molinari, M. L., Calabro, S., Tudisco, R., Cutrigneli, M. I., & Lombardi, P. (2019). Effects of a nutritional supplement in dogs affected by osteoarthritis. *Veterinary medicine and science*. 5(3): 325-335.
- Pritzker, K. P., Gay, S., Jimenez, S. A., Ostergaard, K., Pelletier, J. P., Revell, P. A., & Van den Berg, W. B. (2006). Osteoarthritis cartilage histopathology: grading and staging. *Osteoarthritis and cartilage*. 14(1): 13-29.
- Rezend, M. U. D., & Campos, G. C. D. (2013). Is osteoarthritis a mechanical or inflammatory disease?. *Revista Brasileira de Ortopedia*. 48: 471-474.
- Rim, Y. A., Nam, Y., & Ju, J. H. (2020). The role of chondrocyte hypertrophy and senescence in osteoarthritis initiation and progression. *International journal of molecular sciences*. 21(7): 2358.
- Saqlain, N., Mazher, N., Fateen, T., & Siddique, A. (2023). Comparison of single and double centrifugation methods for preparation of Platelet-Rich Plasma (PRP). *Pakistan Journal of Medical Sciences*. 39(3): 634-637.
- Schmitz, N., Laverty, S., Kraus, V. B., & Aigner, T. (2010). Basic methods in histopathology of joint tissues. *Osteoarthritis and cartilage*. 18: S113-S116.



- Schultz, M., Molligan, J., Schon, L., & Zhang, Z. (2015). Pathology of the calcified zone of articular cartilage in post-traumatic osteoarthritis in rat knees. *PloS one*. 10(3): e0120949.
- Steeve, K. T., Marc, P., Sandrine, T., Dominique, H., & Yannick, F. (2004). IL-6, RANKL, TNF-alpha/IL-1: interrelations in bone resorption pathophysiology. *Cytokine & growth factor reviews*. 15(1): 49-60.
- Steinmeyer, J., Bock, F., Stöve, J., Jerosch, J., & Flechtenmacher, J. (2018). Pharmacological treatment of knee osteoarthritis: Special considerations of the new German guideline. *Orthopedic reviews*. 10(4): 7782
- Szponder, T., Latalski, M., Danielewicz, A., Krać, K., Kozera, A., Drzewiecka, B., & Wessely-Szponder, J. (2022). Osteoarthritis: pathogenesis, animal models, and new regenerative therapies. *Journal of Clinical Medicine*. 12(1): 5.
- Takahashi, I., Matsuzaki, T., Kuroki, H., & Hosoi, M. (2018). Induction of osteoarthritis by injecting monosodium iodoacetate into the patellofemoral joint of an experimental rat model. *PLoS One*. 13(4): e0196625.
- Teeple, E., Jay, G. D., Elsaied, K. A., & Fleming, B. C. (2013). Animal models of osteoarthritis: challenges of model selection and analysis. *The AAPS journal*. 15: 438-446.
- van Beuningen HM, van der Kraan PM, Arntz OJ, van den Berg WB. (1994). Transforming growth factor-beta 1 stimulates articular chondrocyte proteoglycan synthesis and induces osteophyte formation in the murine knee joint. *Lab Invest*. 71(2): 279-290.
- Weiss, D. J., & Wardrop, K. J. (2010). *Schalm's Veterinary Hematology 6th Ed.* USA: Blackwell Publishing Ltd.
- Wojdasiewicz, P., Poniatowski, Ł. A., & Szukiewicz, D. (2014). The role of inflammatory and anti-inflammatory cytokines in the pathogenesis of osteoarthritis. *Mediators of inflammation*, 2014: 561459.
- Wu L., Petriglano F.A., Ba K., Lee S., Bogdanov J., McAllister D.R., Adams J.S., Rosenthal A.K., Van Handel B., Crooks G.M., Lin, Y., & Evseenko, D. 2015. Lysophosphatidic acid mediates fibrosis in injured joints by regulating collagen type I biosynthesis. *Osteoarthr. Cartil.* 23: 308–318.
- Xie, X., Zhang, C., & Tuan, R. S. (2014). Biology of platelet-rich plasma and its clinical application in cartilage repair. *Arthritis research & therapy*. 16: 1-15.