

## DAFTAR PUSTAKA

- Biosciences, 2008, *Technical Bulletin: BD Flow Cytometry*, BDBiosciences, San Jose, CA.
- Bonab M.M., Alimoghaddam K., Talebian F., Ghaffari S.H., Ghavamzadeh A., Nikbin B., 2006, Aging of mesenchymal stem cell in vitro, *BMC Cell Biology* 7(14):1-7.
- Bongso A., Fong C.Y., Gauthaman K., 2008, Taking stem cells to the clinic: major challenges, *J. Cellular Biochemistry* 105(6):1352–1360.
- Borowski M., Giovino-Doherty M., Ji L., Shi M., Smith K.P., Laning J., 2012, *Basic pluripotent stem cell culture protocols*, Massachusetts Stem Cell Bank, University of Massachusetts Medical School, Shrewsbury, USA.
- Carothers A.M., Rizvi H., Hasson R.M., Heit Y.I., Davids J.S., Bertagnolli M.M., Cho N.L., 2012, Mesenchymal stromal cell mutations and wound healing contribute to the etiology of desmoid tumors, *Cancer Res* 72(1): 346–355.
- Cavaliere F., Donno C., D'Ambrosi N., 2015, Purinergic signaling: a common pathway for neural and mesenchymal stem cell maintenance and differentiation, *Front Cell Neurosci* 211(9):1–8.
- Chamberlain, Giselle., Fox, James., Ashton, Brian., Middleton, Jim., 2007, Concise Review: Mesenchymal Stem Cells: Their Phenotype, Differentiation Capacity, Immunological Features, and Potential for Homing, *J. Stem Cells*, 25(11):2739–2749.
- Chang Y.J., Tseng C.P., Hsu L.F., Hsieh T.B., Hwang S.M., 2006, Characterization of two populations of mesenchymal progenitor cells in umbilical cord blood, *Cell Biol. Int.* 30:495–499.
- Chatterjee D., Tufa D.M., Baehre H., Hass R., Schmidt R.E., Jacobs R., 2014, Natural killer cells acquire CD73 expression upon exposure to mesenchymal stem cells, *Blood* 123(4):594–5.
- Christodoulou I., Kolisis F.N., Papaevangelou D., Zoumpourlis V., 2013, Comparative Evaluation of Human Mesenchymal Stem Cells of Fetal (Wharton's Jelly) and Adult (Adipose Tissue) Origin during Prolonged In Vitro Expansion: Considerations for Cytotherapy, *Stem Cells Int.* 2013: 1–12.

- Colgan S.P., Eltzschig H.K., Eckle T., Thompson L.F., 2006, Physiological roles for ecto-5'-nucleotidase (CD73), *Purinergic Signal* (2):351–60.
- Cong Q., Xu Y., Wang Y., Jiang W., Wang Y., Li B., Xu C., 2016, Isolation and characterization of mesenchymal stem cells from human bone marrow, *Int J Clin. Exp. Med.* 9(7):12904–12910.
- Cournil-Henrionnet C., Huselstein C., Wang Y., Galois L., Mainard D., Decot V., Netter P., Stoltz J.F., Muller S., Gillet P., Watrin-Pinzano A., 2008, Phenotypic analysis of cell surface markers and gene expression of human mesenchymal stem cells and chondrocytes during monolayer expansion, *Biorheology* 45(3-4):513–26.
- Deaglio S, Dwyer K.M., Gao W., Friedman D., Usheva A., Erat A., Chen J.F., Enjyoji K., Linden J., Oukka M., Kuchroo V.K., Strom T.B., Robson S.C., 2007, Adenosine generation catalyzed by CD39 and CD73 expressed on regulatory T cells mediates immune suppression, *J. Exp. Med.* 204:1257–1265.
- Dominici M., Le Blanc K., Mueller I., Slaper-Cortenbach I., Marini F., Krause D., Deans R., Keating A., Prockop Dj., Horwitz E., 2006, Minimal Criteria for Defining Multipotent Stromal Cells, *Cytotherapy* 8(4):315–317
- Duggal S., Brinchmann J.E., 2011, Importance of serum source for the in vitroreplicative senescence of human bone marrow derived mesenchymal stem cells, *J. Cell Physiol* 226: 2908–2915.
- Erices A., Conget P., Minguez J.J., 2000, Mesenchymal progenitor cells in human umbilical cord blood, *Br J. Haematol* 109:235–242.
- Estrada J.C., Samper1 E., Bernad A., 2013, Human mesenchymal stem cell-replicative senescence and oxidative stress are closely linked to aneuploidy, *Cell Death and Disease* 4(691): 1–13.
- Gimble J.M., Katz J.A., Bunnell A.B., 2007, Adipose-Derived Stem Cells for Regenerative Medicine, *Circ Res* 100:1249-1260.
- Haque N., Rahman M.T., Abu Kasim, N.H., Alabsi A.M., 2013, Hypoxic culture conditions as a solution for mesenchymal stem cell based regenerative therapy, *The Scientific World Journal* (2013): 1–12.
- Hass R., Kasper C., Böhm S., Jacobs R., 2011, Different populations and sources of human mesenchymal stem cells (MSC): A comparison of adult and neonatal tissue-derived MSC, *Cell Commun Signal* 9(12):1–14.
- Hocking A.M., 2015, The Role of Chemokines in Mesenchymal Stem Cell Homing to Wounds, *Adv Wound Care (New Rochelle)* 4(11):623–630.

- Horwitz E.M., Gordon P.L., Koo W. K. K., 2002, Isolated allogeneic bone marrow-derived mesenchymal cells engraft and stimulate growth in children with osteogenesis imperfecta: implications for cell therapy of bone, *Proceedings of the National Academy of Sciences of the United States of America* 99(13):8932–8937.
- Imannuddin F.R., 2011, Kombinasi Pemberian TGF- $\beta$ 1, GM-CSF , Activin-A Meningkatkan Kadar IL-12 dan Interferon Gamma Sebagai Indikator Pertumbuhan Sel Langerhans Kulit Dalam Kultur Biakan Dmem Sel Punca, Program Magister Program Studi Biomedik Program Pascasarjana Universitas Udayana Denpasar.
- Le Blanc K., Tammik L., Sundberg B., Haynesworth S.E., Ringden O., 2003, Mesenchymal stem cells inhibit and stimulate mixed lymphocyte cultures and mitogenic responses independently of the major histocompatibility complex, *Scand J. Immunol* 57:11–20.
- Lee K.D., 2008, Application of mesenchymal stem cell: An updated review, *Chang Gung Med J.* 31:228-36.
- Maleki M., Ghanbarvand F., Behvarz M.R., Ejtemaei M., Ghadirkhomi E., 2014, Comparison of Mesenchymal Stem Cell Markers in Multiple Human Adult Stem Cells, *Int J Stem Cells* 7(2):118–126.
- Mark P., Kleinsorge M., Gaebel R., Lux C.A., Toelk A., Pittermann E., David R., Steinhoff G., Ma N., 2013, Human Mesenchymal Stem Cells Display Reduced Expression of CD105 after Culture in Serum-Free Medium, *Stem Cells International* (2013):1-8.
- Pankajakshan D., Agrawal D.K., 2014, Mesenchymal stem cell Paracrine Factors in Vascular Repair and Regeneration, *J Biom Tech Res.*
- Pilas B., 2016, Flow Cytometry Facility, <http://www.biotech.illinois.edu/flowcytometry>, diakses pada 12 Agustus 2017.
- Regateiro F.S., Cobbold S.P., Waldmann H., 2013, CD73 and adenosine generation in the creation of regulatory microenvironments, *Clin Exp Immunol* 171(1):1–7.
- Sattler C., Steinsdoerfer M., Offers M., Fischer E., Schierl R., Heseler K., Däubener W., Seissler J., 2010, Inhibition of T-Cell Proliferation by Murine Multipotent Mesenchymal Stromal Cells Is Mediated by CD39 Expression and Adenosine Generation, *Cell Transplantation* 20(8):1221-1230.

- Sivasankar V., Ranganathan K., 2015, Growth characteristics and expression of CD73 and CD146 in cells cultured from dental pulp, *Journal of Investigative and Clinical Dentistry* 1–8
- Sotiropoulou P.A, Perez S.A., Salagianni M., Baxevanis C.N., Papamichail M., 2006, Characterization of the optimal culture conditions for clinical scale production of human mesenchymal stem cells, *Stem Cells* 24:462–471.
- Stagg J., Divisekera U., McLaughlin N., Sharkey J., Pommey S., Denoyer D., Dwyer K.M., Smyth M.J., 2010, Anti-CD73 antibody therapy inhibits breast tumor growth and metastasis, *Proc Natl Acad Sci U S A* 107(4):1547-52.
- Sun X., Gao X., Zhou L., Sun L., 2013. PDGF-BB-induced MT1-MMP expression regulates proliferation and invasion of mesenchymal stem cells in 3-dimensional collagen via MEK/ERK1/2 and PI3K/AKT signaling. *Pub Med* 25:1279–1287.
- Thompson L.F., Eltzschig H.K., Ibla J.C., Van De Wiele C.J., Resta R., Morote-Garcia J.C., Colgan S.P., 2004, Crucial role for ecto-5'-nucleotidase (CD73) in vascular leakage during hypoxia, *J Exp Med* 200(11):1395-405.
- Trivanović D., Kocić J., Mojsilović S., Krstić A., Ilić V., Djordjević I.O., Santibanez J.F., Jovčić G., 2013, Mesenchymal stem cells isolated from peripheral blood and umbilical cord wharton's jelly mesenchymal stem cells isolated from peripheral blood and umbilical cordwharton's jelly, *Srp Arh Celok Lek* 141(3- 4):178-86.
- Velazquez, Omaida C., 2007, Angiogenesis & Vasculogenesis: Inducing the Growth of New Blood Vessels and Wound Healing by Stimulation of Bone Marrow Derived Progenitor Cell Mobilization and Homing, *J. Vasc. Surg.* 45:39–47.
- Wang A., Middlebrook A., Pennebaker K., Chang C., Shum E., Fan C., Weaver S., 2016, A Complete Workflow from Single Cell Isolation to mRNA Sequencing Analysis A workflow of BD FACS sorting combined with BD Precise assays, White paper, <http://www.bd.com/en-us/offering/capabilities/genomics>
- Zeidán-Chuliá F., Nodab M., 2009, “Opening” The Mesenchymal Stem Cell Tool Box, *Eur J Dent* 3(3):240–249.

Zhao K., Lou R., Huang F., Peng Y., Jiang Z., Huang K., Wu X., Zhang Y., Fan Z., Zhou H., Liu C., Xiao Y., Sun J., Li Y., Xiang P., Liu Q., 2015, Immunomodulation effects of mesenchymal stromal cells on acute graft-versus-host disease after hematopoietic stem cell transplantation, *Biol Blood Marrow Transplant* 21:97–104.