

## DAFTAR PUSTAKA

- Abdellatif, M. 2010. The Role of MicroRNA-133 in Cardiac Hypertrophy Uncovered. *Circulation Research* 106:16-18.
- Ahmed, A. 2003. American Heart Association Chronic Heart Failure Evaluation and Management Guidelines: Relevance To The Geriatric Practice. *Journal of the American Geriatrics Society* 51: 123-126.
- Aini, N., S.I. Wanandi, dan F. Sandra. 2009. Ekspresi Oct-4: Penanda Pluripotensi *Stem Cell* pada Jaringan Fetomaternal Darah Tali Pusat, Matriks Tali Pusat, dan Plasenta. *Majalah Kedokteran Indonesia* 59 (4): 152-157.
- Akazawa, H., Komuro, I. 2003. Roles of Cardiac Transcription Factors in Cardiac Hypertrophy. *Circulation Research* 92: 1079-1108.
- Amin, H.Z. 2013. Terapi Stem cell untuk Infark Miokard Akut. *Terapi Stem cell*. 1 (2): 156-164.
- Anonim. 2014. *Situasi Kesehatan Jantung*. Pusat data dan informasi kementerian kesehatan RI.
- Anversa, P., Kajstura, J., Leri, A., Bolli R. 2006. Life and Death of Cardiac Stem Cells: A Paradigm Shift in Cardiac Biology. *Circulation* 113: 1451-1463.
- Atsari, A.G. 2012. Potensi Human Adult Mesenchymal Stem Cells Sebagai Terapi Pencegahan Remodeling Pada Stadium Pemulihan Infark Miokard. *Jurnal Ilmiah Mahasiswa Kedokteran Indonesia* I: 24-25.
- Bearzi, C., Rota, M., Hosoda, T., Tillmanns, J., Nascimbene, A., DeAngelis, A., Yasuzawa-Amano, S., Trofimova, I., Siggins, R.W., Lecapitaine, N., Cascapera, S., Beltrami, A.P., D'Alessandro, D.A., Zias, E., Quaini, F., Urbanek, K., Michler, R.E., Bolli, R., Kajstura, J., Leri, A., Anversa, P. 2007. Human Cardiac Stem Cells. *Proceedings of the National Academy Science U S A* 104: 14068 –14073.
- Beers, M.H., Fletcher A.J., Jones, T.V., 2004. *Merk Manual of Medical Information: Coronary Artery Disease* 2nd ed. New York: Simon & Shcuster.
- Beltrami, A.P., Barlucchi, L., Torella, D., Baker, M., Limana, F., Chimenti, S., Kasahara, H., Rota, M., Musso, E., Urbanek, K., Leri, A., Kajstura, J., Nadal- Ginard, B., Anversa, P. 2003. Adult Cardiac Stem Cells Are Multipotent and Support Myocardial Regeneration. *Cell* 114: 763–776.

- Bernstein, H.S., Srivastava, D. 2012. Stem Cell Therapy for Cardiac Disease. *Pediatric Research* 71 (4): 491-499.
- Boettger, T., Wüst, S., Nolte, H., Braun, T. 2014. The miR-206/133b Cluster is Dispensable for Development, Survival and Regeneration of Skeletal Muscle. *Skeletal Muscle Journal* 4 (23): 1-13.
- Boyle, A.J., Jaffe, A.S. 2009. *Acute Myocardial Infarction. In: Current Diagnosis & Treatment Cardiology Third Edition.* New York: The McGraw-Hill Companies, Inc.
- Brown, T.C., 2006. *Penyakit Aterosklerotik Koroner.* Dalam: Price, S.A., William, L.M., ed. *Patofisiologi Konsep Klinis Proses-proses Penyakit.* Edisi 6. Jakarta: EGC 580-587.
- Bu, L., Jiang, X., Martin-Puig, S., Caron, L., Zhu, S., Shao, Y., Roberts, D.J., Huang, P.L., Domian, I.J., Chien, K.R. 2009. Human ISL1 Heart Progenitors Generate Diverse Multipotent Cardiovascular Cell Lineages. *Nature* 460: 113–117.
- Carlsson, J., Helenius, G., Karlsson, M., Lubovac, Z., Andrén, O. 2010. Validation of Suitable Endogenous Control Genes for Expression Studies of miRNA in Prostate Cancer Tissues. *Cancer Genetics and Cytogenetics* 202 (2): 71-75.
- Chen, J., Yin, H., Jiang, Y., Radhakrishnan, S.K, Huang, Z.P., Li, J. 2011. Induction of microRNA-1 by Myocardin in Smooth Muscle Cells Inhibits Cell Proliferation. *Arteriosclerosis, Thrombosis, and Vascular Biology* 31: 368–375.
- Chen, J.F., Mandel, E.M., Thomson, J.M., Wu, Q., Callis, T.E., Hammond, S.M. 2006. The role of microRNA-1 and microRNA-133 in Skeletal Muscle Proliferation and Differentiation. *Nature Genetics* 38: 228–233.
- Crippa, S., Cassano, M., Messina, G. 2011. miR669a and miR669q Prevent Skeletal Muscle Differentiation in Postnatal Cardiac Progenitors. *The Journal of Cell Biology* 193 (7): 1197–1212.
- Dima, A.O.M., Solihin, D.D., Manalu, W., Boediono, A. 2015. Expression Profile of Sex Determination Gene, Bioreproduction, Phenotype, and Locomotory Performances Of Olive Ridley, *Lepidochelys Olivacea* Induced By Different Incubation Temperature. *Jurnal Ilmu dan Teknologi Kelautan Tropis* 7 (1): 143-155.

- Djauhari, T. 2013. *Sel Punca*. Fakultas Kedokteran Universitas Muhammadiyah Malang, Malang.
- Dorland, W.A.N., 2002. *Kamus Besar Kedokteran Dorland*. Edisi 1. Jakarta: EGC.
- Feng, B., Chen, S., George, B., Feng, Q., Chakrabarti, S. 2010. miR133a Regulates Cardiomyocyte Hypertrophy in Diabetes. *Diabetes & Metabolism Research* 26: 40–49.
- Halim, D., Murti, H., Sandra, F., Boediono, A., Djuwantono, T., Setiawan, B. 2010. *Stem Cell-Dasar Teori & Aplikasi Klinis*. Jakarta: Penerbit Erlangga.
- Hierlihy, A.M., Seale, P., Lobe, C.G., Rudnicki, M.A., Megeney, L.A. 2002. The Post-Natal Heart Contains A Myocardial Stem Cell Population. *Letter Journal* 530: 239 –243.
- Hosoda, T., D’Amario, D., Cabral-Da-Silva, M.C., Zheng, H., Padin-Iruegas, M.E., Ogorek, B., Ferreira-Martins, J., Yasuzawa-Amano, S., Amano, K., Ide-Iwata, N., Cheng, W., Rota, M., Urbanek, K., Kajstura, J., Anversa, P., Leri, A. 2009. Clonality of Mouse and Human Cardiomyogenesis in Vivo. *Proceedings of the National Academy Science U S A* 106: 17169 –17174.
- Hosoda, T. 2012. C-kit-positive Cardiac Stem Cells and Myocardial Regeneration. *American Journal of Cardiovascular Disease* 2 (1): 58-67.
- Huang, F., Tang, L., Fang, Z., Hu, X., Pan, J., Zhou, S. 2013. miR-1-Mediated Induction of Cardiogenesis in Mesenchymal Stem Cells via Downregulation of Hes-1. *BioMed Research International*:1-9.
- Hughes, P., Marshall, D., Reid, Y., Parkes, H., Gelber, C., 2007. The costs of using unauthenticated, over-passaged cell lines: how much more data do we need? *BioTechniques* 43: 575-586.
- Ito, C.Y., Li, C.Y.J., Bernstein, A., Dick, J.E., Stanford, W.L. 2003. Hematopoietic Stem Cell and Progenitor Defects in Sca-1/Ly-6A-null Mice. *Blood* 101 (2): 517-523.
- Ivey, K.N., Muth, A., Arnold, J., King, F.W., Yeh, R.F., Fish, J.E. 2008. MicroRNA Regulation of Cell Lineages in Mouse and Human Embryonic Stem Cells. *Cell Stem Cell* 2: 219–229.
- Izarra, A., Moscoso, I., Levent, E., Can, S., Cerrada, I., Díez-Juan, A., Blanca, V., Gil, I., Valiente, I., Ruiz-Sauri, A., Iveda, P.S., Tiburcy, P.M., Zimmermann, W.H., Bernad, A. 2014. miR-133a Enhances the Protective

Capacity of Cardiac Progenitors Cells after Myocardial Infarction. *International Society for Stem Cell Research* 3: 1029–1042.

Jackson, K.A., Majka, S.M., Wang, H. 2001. Regeneration of ischemic cardiac muscle and vascular endothelium by adult stem cells. *Journal of Clinical Investigation* 107(11): 1395–1402.

Jacob, P dan Landmesser, U. 2012. Role of microRNAs in Stem/Progenitor Cells and Cardiovascular Repair. *Cardiovascular Research* 93: 614–622.

Jusuf, A.A. 2008. Aspek Dasar Sel Punca Embrionik (*Embryonic Stem Cells*) dan Potensi Pengembangannya. *Presentasi pada Diskusi Panel Realitas Baru dan Prospek Perkembangan Seputar Terapi Sel Punca (Stem Cell)*, Jakarta.

Karakikes, I., Chaanine, A.H., Kang, S., Mukete, B.N., Jeong, D., Zhang, S., Hajjar, R.J., Lebeche, D. 2013. Therapeutic Cardiac-Targeted Delivery of miR-1 Reverses Pressure Overload–Induced Cardiac Hypertrophy and Attenuates Pathological Remodeling. *Journal of the American Heart Association* 2: 1-17.

Koutsoulidou, A., Furling, M.D. Uney, J.B., Phylactou, L.A. 2011. Expression of miR-1, miR-133a, miR-133b and miR-206 Increases During Development of Human Skeletal Muscle. *BMC Developmental Biology* 11 (34).

Kresno, S.B. 2011. Micro-RNA dan Implikasinya Pada Kanker. *Indonesian Journal of Cancer* 5 (3): 119-127.

Kuswardhani, T., Soejitno, A. 2011. Bone Marrow-Derived Stem Cells as an Adjunctive Treatment for Acute Myocardial Infarction: A Systematic Review and Meta-Analysis. *The Indonesian Journal of Internal Medicine* 43: 168-176.

Kwon, C., Han, Z., Olson, E.N., Srivastava, D. 2005. MicroRNA1 Influences Cardiac Differentiation in *Drosophila* and Regulates Notch Signaling. *Proceedings of the National Academy Science U S A* 102: 18986–18991.

Leri, A., Kajstura, J., Anversa, P. 2005. Cardiac Stem Cells and Mechanisms of Myocardial Regeneration. *Physiological Reviews* 85: 1373-1416.

Leri, A. 2009. Human Cardiac Stem Cells: The Heart of A Truth. *Circulation Research* 120: 2515–2518.

Leri, A., Kajstura, J., Anversa, P. 2011. Role of Cardiac Stem Cells in Cardiac Pathophysiology:A Paradigm Shift in Human Myocardial Biology. *Circulation Research* 109: 941-961.

- Libby, P., Lichtman, A.H., Hansson, G.K. 2013. Immune Effector Mechanisms Implicated in Atherosclerosis: From Mice to Humans (Review). *Immunity* 38.
- Linke, A., Muller, P., Nurzynska, D., Casarsa, C., Torella, D., Nascimbene, A., Castaldo, C., Cascapera, S., Bohm, M., Quaini, F., Urbanek, K., Leri, A., Hintze, T.H., Kajstura, J., Anversa, P. 2005. Stem cells in the dog heart are self-renewing, clonogenic, and multipotent and regenerate infarcted myocardium, improving cardiac function. *Proceedings of the National Academy Science U S A* 102 (25): 8966–8971.
- Liu, N., Williams, A.H., Kim, Y., McAnally, J., Bezprozvannaya, S., Sutherland, L.B. 2007. An intragenic MEF2-Dependent Enhancer Directs Muscle-Specific Expression of micro- RNAs 1 and 133. *Proceedings of the National Academy Science U S A* 104: 20844–20849.
- Liu, N., Bezprozvannaya, S., Williams, A.H., Qi, X., Richardson, J.A., Bassel-Duby, R. 2008. microRNA-133a Regulates Cardiomyocyte Proliferation and Suppresses Smooth Muscle Gene Expression in The Heart. *Genes Development* 22: 3242–3254.
- Lund, A.H. 2010. miR-10 in Development and Cancer. *Cell Death and Diffentiation* 17: 209-214.
- Markovic, O., Markovic, N. 1998. Cell cross-contamination in cell cultures: the silent and neglected danger. *In Vitro Cell Development Biologi* 34 :1-8.
- Marcucci, G., Mrozek, K., Radmacher, M.D, Garzon, R., Bloomfield, C.D. 2011. The Prognostic and Functional Role of Micornas in Acute Myeloid Leukemia. *Blood* 117: 1121-1129.
- Matsuura, K., Nagai, T., Nishigaki, N. 2014. Adult Cardiac Sca-1- Positive Cells Differentiate Into Beating Cardiomyocytes. *Journal of Biological Chemistry* 279: 11384–11391.
- Melton, C., Biellock, R. 2010. *Microna Regulation of Embryonic Stem Cell Self Renewal and Differentiation*. In: Meshorer E and Plath K (eds). *The Cell Biology of Stem Cells*. Austin, Landa BioSc.
- Mitchelson, K.R., Qin, W.Y. 2015. Roles of the Canonical MyomiRs miR-1, -133 and -206 in Cell Development and Disease. *World Journal of Biological Chemistry* 6 (3): 162-208.
- Mishima, Y., Goodger, C.A., Staton, A.A., Stahlhut, C., Shou, C., Cheng, C., Gerstein, M., Enright, A.J., Giraldez1, A.J. 2009. Zebrafish miR-1 and

miR-133 Shape Muscle Gene Expression and Regulate Sarcomeric Actin Organization. *Genes & Development* 23: 619–632.

Mishra, P.K. 2014. Is Mir-133a a Promising Therapeutic Target for Heart Failure? *Journal Diabetes Metabolism* 5 (8) :1-2.

Perin, E.C. 2006. Stem Cell Therapy for Cardiovascular Disease. *Texas Heart Institute Journal* 33(2): 204-208.

Pfister, O., Oikonomopoulos, A., Sereti, K.I., Sohn, R.L., Cullen, D., Fine, G.C., Mouquet, F., Westerman, K., Liao, R. 2008. Role of The ATP-Binding Cassette Transporter Abcg2 In The Phenotype and Function of Cardiac Side Population Cells. *Circulation Research* 103: 825– 835.

Pinheiro, A.I.R.M. 2010. MicroRNA and Gene Expression Profiling of Adult Cardiac Stem Cells. Universidade de Lisboa, Faculdade de Ciências, Departamento de Biologia Vegetal. *Thesis*.

Purvis, N., Bahn, A., Katare, R. 2015. The Role of MicroRNAs in Cardiac Stem Cells. *Stem Cells International* 1-10.

Puspitasari, R.L., Sardjono, C.T., Sandra, F. 2011. Fluorescence Activated Cell Sorting (FACS) dalam Kultur Embryonic Stem Cell. Stem Cell and Cancer Institute, Kalbe Pharmaceutical Company, Jakarta. *CDK* 38 (5): 337-340.

Ramrakha, P., Hill, J., 2006. *Oxford Handbook of Cardiology: Coronary Artery Disease*. 1st ed. USA: Oxford University Press.

Roger, V.L. 2007. *Epidemiology of Myocardial Infarction*. Medical Clinics of North America 91: 537.

Sanz-Ruiz, R., Ibanes, E.G., Arranz, A.V., Santos, M.E.F., Fernandez, P.L.S., Fernandez-Aviles, F. 2010. Phases I–III Clinical Trials Using Adult Stem Cells. *Stem Cells International* 1-12.

Sassen, S., Miska, E.A., Caldas, C. 2008. Micro-RNA – Implications for Cancer. *Virchows Archiv* 452: 1-10

Selwyn, A.P., Braunwald E., 2005. *Ischemic Heart Disease*. In: Kasper, D.L., Fauci, A.S., Longo, D.L., Braunwald, E., Hauser, S.L., Jameson, J. L., eds., *Harrison's Principles of Internal Medicine*. 16 th ed. USA: McGraw-Hill 1434-1435.

Serradifalco, C., Zummo, G., Di Felice, V. 2012. MicroRNA and Cardiac Stem Cell Therapy. *Journal Clinical & Experimental Cardiology* 11: 1-8.

- Setiawan, B. 2006. Aplikasi Terapeutik Sel Stem Embrionik pada Berbagai Penyakit Degeneratif. *Cermin Dunia Kedokteran* 153: 5-8.
- Smith, A.M., Vliet, P.V., Metz, C.H., Korfage., T., Sluijter, J.P.G., Doevendans, P.A., Goumans, J.M. 2009. Human Cardyomyocyte Progenitor Cells Differentiate Into Functional Mature Cardiomyocytes : An In Vitro Model For Studying Human Cardiac Physiology and Pathophysiology. *Nature Protocols* 4 (2): 232-243.
- Takaya,T., Ono, K., Kawamura, T. 2009. MicroRNA-1 and microRNA-133 in Spontaneous Myocardial Differentiation of Mouse Embryonic Stem Cells. *Circulation Journal* 73 (8): 1492–1497.
- Thomson, J.A., Itzkovitz-Eldor, J and Shapiro, S.S. 1998. Embryonic Stem Cells Lines Derived from Human Blastocyst. *Science* 282: 1145-1147.
- Uchida, S., Gaspari, P.D., Kostin, S., Jenniches, K., Kilic, A., Izumiya, Y., Shiojima, I., Kreymborg, K., Renz, H., Walsh, K., Braun, T. 2013. Sca1-Derived Cells are a Source of Myocardial Renewal in the Murine Adult Heart. *International Society for Stem Cell Research* 1: 397–410.
- Walsh, K. 2006. Akt Signaling and Growth of the Heart. *Circulation* 113: 2032-2034.
- Williams, A.R., Hare, J.M. 2011. Mesenchymal Stem Cells: Biology, Pathophysiology, Translational Findings, and Therapeutic Implications for Cardiac Disease. *Circulation Research* 109: 923–940.
- Wang, Y., Baskerville, S., Shenoy, A., Babiarz, J.E., Baehner, L. 2008. Embryonic Stem Cell-Specific Micrnas Regulate The G1-S Transition and Promote Rapid Proliferation. *Nature Genetics* 40: 1478-1483.
- Wang, Y., Bllloch, R. 2009. Cell Cycle Regulation by Micrnas in Embryonic Stem Cells. *Cancer Research* 69 (10): 4093-4095.
- Wang, H., Chen, H., Feng, B., Wang, X., He, X., Hu, R., Yin, M., Wang, W., Fu, W., Xu, Z. 2014. Isolation and Characterization of a Sca-1+/CD31– Progenitor Cell Lineage Derived from Mouse Heart Tissue. *BMC Biotechnology* 75 (14): 2-11.
- Wystub, K., Besser, J., Bachmann, A., Boettger, T., Braun, T. 2013. miR-1/133a Clusters Cooperatively Specify the Cardiomyogenic Lineage by Adjustment of Myocardin Levels during Embryonic Heart Development. *Plos Genetic* 9 (9): 1-17.

- Xia, H.P. 2008. Great Potential of microRNA in Cancer Stem Cell. *Journal of Cancer Molecules* 4 (3): 79-89.
- Xie, C., Huang, H., Sun, X., Guo, Y., Hamblin, M., Ritchie, R.P. 2011. MicroRNA-1 Regulates Smooth Muscle Cell Differentiation by Repressing Kruppel-Like Factor 4. *Stem Cells Development* 20: 205–210.
- Xu, C., Lu, Y., Pan, Z., Chu, W., Luo, X., Lin, H., Xiao, J., Shan, H., Wang, Z., Yang, B. 2007. The Muscle-Specific MicroRNAs miR-1 and miR-133 Produce Opposing Effects on Apoptosis by targeting HSP60, HSP70 and Caspase-9 in cardiomyocytes. *Journal Cell Science* 120: 3045–3052
- Yan, F., Yao, Y., Chen, L., Li, Y., Sheng, Z., Ma, G. 2012. Hypoxic Preconditioning Improves Survival of Cardiac Progenitor Cells: Role of Stromal Cell Derived Factor-1a– CXCR4 Axis. *Plos One* 7 (7): 1-9.
- Zhao, Y., Samal, E., Srivastava, D. 2005. Serum Response Factor Regulates A Muscle-Specific Microrna That Targets Hand2 During Cardiogenesis. *Nature* 436: 214–220.