

DAFTAR PUSTAKA

- Afnan, J. *et al.*, 2006. The Mechanisms of Immune Mediated Ischemia-Reperfusion Injury is Conserved Between Different Animal Species. *Journal of Surgical Research*, 130(2): 317.
- Alpern, R. J., Caplan, M. J. & Moe, O. W., 2012. *Seldin and Giebisch's The Kidney Physiology and Pathophysiology*. 5th ed. Philadelphia: Elsevier.
- Al-Rasheed, N. M. *et al.*, 2016. Down-Regulation of NFkB, Bax, TGF- β , Smad-2mRNA expression in the Livers of Carbon Tetrachloride Treated Rats using Different Natural Antioxidants. *Braz Arch Biol Technol*, Volume 59: e16150553.
- Alvarez, R. J. *et al.*, 1992. Biosynthetic and Proliferative Characteristics of Tubulointerstitial Fibroblasts Probed with Paracrine Cytokines. *Kidney Int*, 41(1): 14-23.
- Bagdas, D. *et al.*, 2014. Pharmacologic Overview of Systemic Chlorogenic Acid Therapy on Experimental Wound Healing. *Naunyn-Schmiedeberg's Arch Pharmacol*, 387(11): 1101-1116.
- Basile, D. P., 2007. The Endothelial Cell in Ischemic Acute Kidney Injury: Implications for Acute and Chronic Function. *Kidney Int*, 72(2): 151-156.
- Basile, D. P., Anderson, M. D. & Sutton, T. A., 2012. Pathophysiology of Acute Kidney Injury. *Compr Physiol*, 2(2): 1303-1353.
- Basile, D. P., Rovak, J. M., Martin, D. R. & Hammerman, M. R., 1996. Increased Transforming Growth Factor-Beta 1 Expression in Regenerating Rat Renal Tubules Following Ischemic Injury. *Am Jour of Physiol*, 270(3): F500-F509.
- Biernacka, A., Dobaczewski, M. & Frangogiannis, N. G., 2011. TGF- β Signaling in Fibrosis. *Growth Factors*, 29(5): 196-202.
- Bonventre, J. V., 2003. Dedifferentiation and Proliferation of Surviving Epithelial Cells in Acute Renal Failure. *JASN*, 14(1): S55-S61.
- Bonventre, J. V. & Yang, L., 2011. Cellular Pathophysiology of Ischemic Acute Kidney Injury. *J Clin Invest*, 121(11): 4210-4221.
- Bonventre, J. V. & Zuk, A., 2004. Ischemic Acute Renal Failure: An Inflammatory Disease?. *J Int Soc Nephrol*, 66(2): 480-485.
- Cano-Marquina, A., Tarin, J. J. & Cano, A., 2013. The Impact of Coffee on Health. *Maturitas*, 75(1): 7-21.
- Cerdá, J. *et al.*, 2008. Epidemiology of Acute Kidney Injury. *Clin Jour Am Soc Nephrol*, 3(3): 881-886.
- Charan, J. & Kantharia, N. D., 2013. How to Calculate Sample Size in Animal Studies?. *Journal of Pharmacology and Pharmacotherapeutics*, 4(4): 303-306.
- Chávez, E. *et al.*, 2008. Resveratrol Prevents Fibrosis, Nf-KappaB Activation and TGF-Beta Increases Induced by Chronic CCl₄ Treatment in Rats. *J Appl Toxicol*, 28(1): 35-43.
- Chawla, L. M., Eggers, P. W., Star, R. A. & Kimmel, P. L., 2014. Acute Kidney Injury and Chronic Kidney Disease as Interconnected Syndromes. *N Engl J Med*, 371(1): 58-66.
- Chawla, L. S. & Kimmel, P. L., 2012. Acute Kidney Injury and Chronic Kidney Injury: An Integrated Clinical Syndrome. *Kidney Int*, 82(5): 516-524.

- Chen, J. *et al.*, 2012. EGFR Signalin Promotes TGF Beta-Dependent Renal Fibrosis. *J Am Soc Nephrol*, 23(2): 215-224.
- Chen, Y. T. *et al.*, 2011. Platelet-Derived Growth Factor Receptor Signaling Activates Pericyte–Myofibroblast Transition in Obstructive and Post-Ischemic Kidney Fibrosis. *Kidney International*, 80(11): 1170-1181.
- Cherng, S., Young, J. & Ma, H., 2008. Alpha-Smooth Muscle Actin (α -SMA). *Jour Am Sc*, 4(4): 7-9.
- Chung, A. C. & Lan, H. Y., 2011. Chemokines in Renal Injury. *JASN*, 22(5): 802-809.
- Cook, H. T., 2010. The Origin of Renal Fibroblasts and Progression of Kidney Disease. *Am J Pathol*, 176(1): 22-24.
- Costanzo, L. S., 2014. *Physiology*. 5th ed. Philadelphia: Saunders.
- Curci, C. *et al.*, 2014. Endothelial-To-Mesenchymal Transition and Renal Fibrosis in Ischaemia/Reperfusion Injury are Mediated by Complement Anaphylatoxins and Akt Pathway. *Nephrol Dial Transplant*, 29(4): 799-808.
- Dagher, P. *et al.*, 2003. Newly Developed Techniques to Study and Diagnose Acute Renal Failure. *J Am Soc Nephrol*, 14(8): 2188-2198.
- Dai, C., Kiss, L. P. & Youhua, L., 2008. Animal Models of Kidney Disease. Dalam: P. M. Conn, penyunt. *Sourcebook of Models for Biomedical Research*. New York: Humana Press: 657-664.
- Danobeitia, J. S., Djamali, A. & Fernandez, L. A., 2014. The Role of Complement in the Pathogenesis of Renal Ischemia-Reperfusion Injury and Fibrosis. *Fibrogenesis and Tissue Repair*, 7: 16.
- Desmoulière, A., Chaponnier, C. & Gabbiani, G., 2005. Tissue Repair, Contraction, and the Myofibroblast. *Int Jour of Tiss Rep and Regen*, 13(1): 7-12.
- Devarajan, P., 2006. Update on Mechanisms of Ischemic Acute Kidney Injury. *J Am Soc Nephrol*, 17(6): 1503-1520.
- Dockrell, M. E., Phanish, M. K. & Hendry, B. M., 2009. Tgf-Beta Auto-Induction and Connective Tissue Growth Factor Expression in Human Renal Tubule Epithelial Cells Requires N-Ras. *Nephron Exp Nephrol*, 112(3): e71.
- Domitrović, R., Cvijanović, O., Šušnić, V. & Katalinić, N., 2014. Renoprotective Mechanisms of Chlorogenic Acid in Cisplatin-Induced Kidney Injury. *Toxicology*, 324: 98-107.
- Dorweiler, B. *et al.*, 2007. Ischemia-Reperfusion Injury. *European Journal of Trauma and Emergency Surgery*, 33(6): 600-612.
- Doyle, J. F. & Fomi, L. G., 2016. Acute Kidney Injury: Short-Term and Long-Term Effects. *Critical Care*, 20: 188-194.
- Eddy, A. A., Okamura, D. M., Yamaguchi, I. & López-Guisa, J. M., 2002. Investigating Mechanisms of Chronic Kidney Disease in Mouse Models. *Pediatr Nephrol*, 27(8): 1233-1247.
- Eltzschig, H. K. & Eckle, T., 2011. Ischemia and Reperfusion—From Mechanism to Translation. *Nature Medicine*, 17(11): 1391-1401.
- Fauci, A. S. *et al.*, 2015. *Harrison's Principles of Internal Medicine*. 19th ed. USA: McGraw-Hill.

- Feng, Y., Yu, Y. H., Wang, S. T. & Ren, J., 2016. Chlorogenic Acid Protects D-Galactose-induced Liver and Kidney Injury via Antioxidation and Antiinflammation Effects in Mice. *Pharm Biol*, 54(6): 1027-1034.
- Gartner, L. P. & Hiatt, J. J., 2011. *Concise Histology*. 3rd ed. Philadelphia: Saunders.
- Gartner, L. P. & Hiatt, J. L., 2014. *Color Atlas and Text of: Histology*. 6th ed. Philadelphia: Lippincott Williams & Wilkins.
- Geng, H. *et al.*, 2012. Lysophosphatidic acid increases proximal tubule cell secretion of profibrotic cytokines PDGF-B and CTGF through LPA2- and Gαq-mediated Rho and αvβ6 integrin-dependent activation of TGF-β. *Am J Physiol*, 181(4): 1236-1249.
- Geng, H. *et al.*, 2009. Inhibition of Autoregulated TGFβ Signaling Simultaneously Enhances Proliferation and Differentiation of Kidney Epithelium and Promotes Repair Following Renal Ischemia. *Am J Pathol*, 174(4): 1291-1308.
- Gewin, L. *et al.*, 2010. TGF-beta Receptor Deletion in the Renal Collecting System Exacerbates Fibrosis. *J Am Soc Nephrol*, 21(8): 1334-1343.
- Gewin, L. & Zent, R., 2012. How Does TGF-β Mediate Tubulointerstitial Fibrosis?. *Semin Nephrol*, 32(3): 228-235.
- Grande, M. T. & Lopez-Novoa, J. M., 2009. Fibroblast Activation and Myofibroblast Generation in Obstructive Nephropathy. *Nat Rev Nephrol*, 5(6): 319-328.
- Granger, D. N. & Kvietys, P. R., 2015. Reperfusion Injury and Reactive Oxygen Species: The Evolution of A Concept. *Redox Biology*, Volume 6: 524-551.
- Grgic, I., 2012. The Origin of Interstitial Myofibroblasts in Chronic Kidney Disease. *Pediatr Nephrol*, 27(2): 183-193.
- Guan, Q., Nguan, C. Y. & Du, C., 2010. Expression of Transforming Growth Factor-β1 Limits. *Transplantation*, 89(11): 1320-1327.
- Hall, J. E., 2016. *Guyton and Hall Textbook of Medical Physiology*. 13th ed. Philadelphia: Elsevier.
- He, L. *et al.*, 2017. AKI on CKD: Heightened Injury, Suppressed Repair, and the Underlying Mechanisms. *Kidney International*, 92(5): 1071-1083.
- Hesketh, E. E. *et al.*, 2014. Renal Ischemia Reperfusion Injury: A Mouse Model of Injury and Regeneration. *J Vis Exp*, 88: e51816.
- Hewitson, T. D., 2012. Fibrosis in the Kidney: Is A Problem Shared A Problem Halved?. *Fibrogenesis Tissue Repair*, 5(1): S14.
- Hewitson, T. D., Ono, T. & Becker, G. J., 2009. Small Animal Models of Kidney Disease: A Review. *Methods Mol Biol*, 466: 41-57.
- Hsu, C. Y. *et al.*, 2007. Community-Based Incidence of Acute Renal Failure. *Kidney Int*, 72(2): 208-212.
- Humphreys, B. D. *et al.*, 2010. Fate Tracing Reveals the Pericyte and Not Epithelial Origin of Myofibroblasts in Kidney Fibrosis. *Am J Pathol*, 176(1): 85-97.
- International Society of Nephrology, 2012. Section 2: AKI Definition. *Kidney International Supplements*, 2(1): 19-36.
- Iwano, M., Plieth, D. & Danoff, T. M., 2002. Evidence that Fibroblasts Derive from Epithelium During Tissue Fibrosis. *J Clin Invest*, 110(3): 341-350.

- Jennette, J. C., Olson, J. L., Silva, F. G. & D'Agati, V. D., 2014. *Heptinstall's Pathology of the Kidney*. 7th ed. Philadelphia: Wolters Kluwer.
- Ji, L. *et al.*, 2013. Chlorogenic Acid, a Dietary Polyphenol, Protects Acetaminophen-Induced Liver Injury and Its Mechanism. *J Nutr Biochem*, 24(11): 1911-1919.
- Jin, U. H. *et al.*, 2005. A Phenolic Compound, 5-Caffeoylquinic Acid (Chlorogenic Acid), is a New Type and Strong Matrix Metalloproteinase-9 Inhibitor: Isolation and Identification from Methanol Extract of *Euonymus alatus*. *Life Sci*, 77(22): 2760-2769.
- Jobling, M. F. *et al.*, 2006. Isoform-Specific Activation of Latent Transforming Growth Factor Beta (Ltgf-Beta) by Reactive Oxygen Species. *Radiat Res*, 166(6): 839-848.
- Johnson, R. J., Feehally, D. M. & Floege, J., 2015. *Comprehensive Clinical Nephrology*. 5th ed. Philadelphia: Elsevier.
- Junior, S. T. *et al.*, 2008. Renal Ischemia and Reperfusion Injury: Influence of Chlorpromazine on Renal Function and Lipid Peroxidation. *Acta Cir Bras*, 23(1): 42-46.
- Kaissling, B. & Hir, M. L., 2008. The Renal Cortical Interstitium: Morphological and Functional Aspects. *Histochem Cell Biol*, 130(2): 247-262.
- Kalogeris, T., Baines, C. P., Krenz, M. & Korthuis, R. J., 2012. Cell Biology of Ischemia/Reperfusion Injury. *Int Rev Cell Mol Biol*, Volume 298: 229-317.
- Kamisnksi, K. A., Bonda, T. A., Korecki, J. & Musial, W. J., 2002. Oxidative Stress and Neutrophil Activation--The Two Keystones of Ischemia/Reperfusion Injury. *Int J Cardiol*, 86(1): 41-59.
- Kanwar, Y. S., 2012. TGF- β and Renal Fibrosis. *Am J Pathol*, 181(10): 1147-1150.
- Kezić, A., Stajic, N. & Thaiss, F., 2017. Innate Immune Response in Kidney Ischemia/Reperfusion Injury: Potential Target for Therapy. *J Immunol Res*, 2017: 6305439.
- Klatte, T. *et al.*, 2015. A Literature Review of Renal Surgical Anatomy and Surgical Strategies for Partial Nephrectomy.. *Eur Urol*, 68(6): 98-92.
- Koesters, R., Kaissling, B. & Lehir, M., 2010. Tubular Overexpression of Transforming Growth Factor-Beta1 Induces Autophagy and Fibrosis but not Mesenchymal Transition of Renal Epithelial Cells. *Am J Pathol*, 177(2): 632-643.
- Ko, G. J. *et al.*, 2008. Macrophages Contribute to the Development of Renal Fibrosis Following Ischaemia/Reperfusion-Induced Acute Kidney Injury. *Nephrol Dial Transplant*, 23(3): 842-852.
- Krag, S. *et al.*, 2005. Plasminogen Activator Inhibitor-1 Gene Deficient Attenuates TGF-beta1-induced Kidney Disease. *Kidney Int*, 68(6): 2651-2666.
- Krstić, R. V., 1985. Loose Connective Tissue Fixed Cells: Fibroblast and Fibrocyte. Dalam: *General Histology of the Mammal*. Berlin, Heidelberg: Springer.
- Kumar, V., Abbas, A. K. & Aster, J. C., 2013. *Robbins Basic Pathology*. 9th ed. Philadelphia: Elsevier.
- Kumar, V., Abbas, A. K. & Aster, J. C., 2015. *Robbins and Cotran Pathologic Basis of Disease*. 9th ed. Philadelphia: Elsevier.

- Kusaka, J. *et al.*, 2012. Age-dependent Responses to Renal Ischemia-reperfusion Injury. *J Surg Res*, 172(1): 153-158.
- Lameire, N., Van Biesen, W. & Vanholder, R., 2006. The Changing Epidemiology of Acute Renal Failure. *Nat Clin Pract Nephrol*, 2(7): 364-377.
- Laurence, D. R. & Bacharach, A. L., 1964. *Evaluation of Drug Activities*. 1st ed. London: Academic Press.
- Le Clef, N., Verhulst, A., D'Haese, P. C. & Vervaet, B. A., 2016. Unilateral Renal Ischemia-Reperfusion as a Robust Model for Acute to Chronic Kidney Injury in Mice. *PLoS ONE*, 11(3): e0152153.
- Lebleu, V. S. *et al.*, 2013. Origin and Function of Myofibroblasts in Kidney Fibrosis. *Nat Med*, 19(8): 1047-1053.
- Legrand, M. *et al.*, 2008. Renal Hypoxia and Dysoxia After Reperfusion of the Ischemic Kidney. *Mol Med*, 14(7-8): 502-516.
- Liang, N. & Kitts, D. D., 2016. Role of Chlorogenic Acids in Controlling Oxidative and Inflammatory Stress Conditions`. *Nutrients*, 8(1): 16.
- Li, M. O. *et al.*, 2006. Transforming Growth Factor-Beta Regulation of Immune Responses. *Annu Rev Immunol*, 24: 99-146.
- Lin, S. L., Kesseleva, T., Brenner, D. A. & Duffield, J. S., 2008. Pericytes and perivascular fibroblasts are the primary source of collagen-producing cells in obstructive fibrosis of the kidney. *Am J Pathol*, 173(6): 1617-1627.
- Lipson, K. E., Wong, C., Teng, Y. & Spong, S., 2012. CTGF is A Central Mediator of Tissue Remodeling and Fibrosis and Its Inhibition can Reverse the Process of Fibrosis. *Fibrogenesis and Tissue Repair*, 5(1): S24.
- Liu, R.-M. & Desai, L. P., 2015. Reciprocal Regulation of TGF- β and Reactive Oxygen Species: A Perverse Cycle for Fibrosis. *Redox Biol*, Volume 6: 565-577.
- Liu, R. M. & Pravia, K. A. G., 2011. Oxidative Stress and Glutathione in TGF- β -Mediated Fibrogenesis. *Free Radic Biol Med*, 48(1): 1-37.
- Liu, Y., 2011. Cellular and Molecular Mechanisms of Renal Fibrosis. *Nat Rev Nephrol*, 7(12): 684-696.
- Liu, Y. J. *et al.*, 2013. Chlorogenic Acid Induced Apoptosis and Inhibition of Proliferation in Human Acute Promyelocytic Leukemia. *Mol Med Rep*, 8(4): 1106-1110.
- Lou, J. *et al.*, 2016. Chlorogenic Acid Slows Down Proteinuria and Renal Fibrosis in 5/6-Nephrectomized Rats by Anti-Oxidation and Inhibiting Accumulation of Extracellular Matrix. *Int J Clin Exp Med*, 9(8): 15719-15727.
- Malek, M. & Nematbakhsh, M., 2015. Renal Ischemia/Reperfusion Injury; From Pathophysiology to Treatment. *J Renal Inj Prev*, 4(2): 20-27.
- Ma, L. J. *et al.*, 2003. Transforming Growth Factor-Beta-Dependent and -Independent Pathways of Induction of Tubulointerstitial Fibrosis in Beta6(-/-) Mice. *Am J Pathol*, 163(4): 1261-1273.
- McAnulty, R. J., 2007. Fibroblasts and Myofibroblasts: Their Source, Function, and Role In Disease. *Int Jour Biochem & Cell Bio*, 39: 666-671.
- Meaney, P. A. & Meyers, K. E. C., 2011. Chapter 11: Acute Kidney Injury. Dalam: P. Mattei, penyunt. *Fundamentals of Pediatric Surgery*. Philadelphia: Springer: 73-82.

- Meran, S. & Steadman, R., 2011. Fibroblasts and Myofibroblasts in Renal Fibrosis. *Int J Exp Path*, 92(3): 158-167.
- Mescher, A. L., 2013. *Junqueira's Basic Histology: Text and Atlas*. 13th ed. USA: McGraw-Hill Education.
- Miao, M. *et al.*, 2017. Protective Effect of Chlorogenic Acid on the Focal Cerebral Ischemia Reperfusion Rat Models. *Saudi Pharmaceutical Journal*, 25: 556-563.
- Mishra, R. *et al.*, 2008. Amp-Activated Protein Kinase Inhibits Transforming Growth Factor-Beta-Induced Smad3-Dependent Transcription and Myofibroblast Transdifferentiation. *J Biol Chem*, 283(16): 10461-10469.
- Molitoris, B. A. & Sutton, T. A., 2004. Endothelial Injury and Dysfunction: Role in the Extension Phase of Acute Renal Failure. *Kidney Int*, 66(2): 496-499.
- Moore, K. L., Dalley, A. F. & Agu, A. M., 2014. *Clinically Oriented Anatomy*. 7th ed. Philadelphia: Lippincott Williams & Wilkins.
- Mubarak, A. *et al.*, 2012. Acute Effects of Chlorogenic Acid on Nitric Oxide Status, Endothelial Function, and Blood Pressure in Healthy Volunteers: A Randomized Trial. *J Agric Food Chem*, 60(36): 9130-9136.
- Multazam, A., Rini, S. L. S. & Arfian, N., 2017. Chlorogenic Acid Attenuated Inflammatory Response in Kidney Disease with Ischemic Reperfusion Injury. *Advances in Health Sciences Research*, 2: 7-11.
- Nagai, Y. *et al.*, 2005. Aldosterone Stimulates Collagen Gene Expression and Synthesis via Activation of Erk1/2 in Rat Renal Fibroblasts. *Hypertension*, 46(4): 1039-1045.
- Nakagawa, S. *et al.*, 2015. Molecular Markers of Tubulointerstitial Fibrosis and Tubular Cell Damage in Patients with Chronic Kidney Disease. *PLoS ONE*, 10(8): e0136994.
- Niggeweg, R., Michael, A. J. & Martin, C., 2004. Engineering Plants with Increased Levels of the Antioxidant Chlorogenic Acid. *Biotechnol*, 22: 746-754.
- Olof, P., Hellberg, A., Kallskog, O. & Wolgast, M., 1991. Red Cell Trapping and Postischemic Renal Blood Flow: Differences between the Cortex, Outer, and Inner Medulla. *Kidnet Int*, 40: 625-631.
- Olthof, M. R., Hollman, P. C. & Katan, M. B., 2001. Chlorogenic Acid and Caffeic Acid are Absorbed in Humans. *J Nutr*, 131(1): 66-71.
- Ong, K. W., Hsu, A. & Tan, B. K., 2012. Chlorogenic Acid Stimulates Glucose Transport in Skeletal Muscle via AMPK Activation: A Contributor to the Beneficial Effects of Coffee on Diabetes. *PLoS ONE*, 7(3): e32718.
- O'Rahilly, R., Müller, F., Carpenter, S. & Swenson, R., 2004. *Basic Human Anatomy: A Regional Study of Human Structure*, USA: Dartmouth Medical School.
- Patel, N. S. *et al.*, 2004. Reduction of Renal Ischemia-Reperfusion Injury in 5-Lipoxygenase Knockout Mice and by the 5-Lipoxygenase Inhibitor Zileuton. *Mol Pharmacol*, 66: 220-227.
- Paulsen, F. & Waschke, J., 2011. *Sobotta Atlas of Human Anatomy Latin Nomenclature*. 15th ed. Munich: Elsevier GmbH.
- Pernefri, 2014. *7th Annual Report of Indonesian Renal Registry*, Jakarta: Indonesian Renal Registry.

- Qi, W., Chen, X., Poronnik, P. & Pollock, C. A., 2006. The Renal Cortical Fibroblast in Renal Tubulointerstitial Fibrosis. *Int J Biochem Cel Biol*, 38: 1-5.
- Rahman, M., Shad, F. & Smith, M. C., 2012. Acute Kidney Injury: A Guide to Diagnosis and Management. *American Family Physician*, 86(7): 631-639.
- Ramesh, G. & Ranganathan, P., 2014. Mouse Models and Methods for Studying Human Disease, Acute kidney Injury (AKI). *Methods Mol Biol*, Volume 1194: 421-436.
- Ravikanth, M. *et al.*, 2011. Heterogeneity of Fibroblasts. *J Oral Maxillofac Pathol*, 15(2): 247-250.
- Requião-Moura, L. R., Junior, M. d. S. D., De Matos, A. C. C. & Pacheco-Silva, A., 2015. Ischemia and Reperfusion Injury in Renal Transplantation: Hemodynamic and Immunological Paradigms. *Einstein*, 13(1): 129-135.
- Rockey, D. C., Weymouth, N. & Shi, Z., 2013. Smooth Muscle α Actin (Acta2) and Myofibroblast Function during Hepatic Wound Healing. *PLoS ONE*, 8(10): e771166.
- Ross, M. H. & Pawlina, W., 2011. *Histology: A Text and Atlas*. 6th ed. Philadelphia: Lippincott Williams & Wilkins.
- Ruiz-Ortega, M. & Egido, J., 1997. Angiotensin II Modulates Cell Growth-Related Events and Synthesis of Matrix Proteins in Renal Interstitial Fibroblasts. *Kidney Int*, 52(6): 1497-1510.
- Sampaio, F. J., 2000. Renal Anatomy. *Urologic Clinics*, 27(4): 585-607.
- Santana-Galvez, J., Cisneros-Zevallos, L. & Jacobo-Velazquez, D. A., 2017. Chlorogenic Acid: Recent Advances on Its Dual Role as a Food Additive and a Nutraceutical against Metabolic Syndrome. *Molecules*, 22(3): 358-378.
- Sato, Y. *et al.*, 2011. In Vitro and In Vivo Antioxidant Properties of Chlorogenic Acid and Caffeic Acid. *Int J Pharm*, 403(1): 136-138.
- Schmiedt, C. W. *et al.*, 2016. Unilateral Renal Ischemia as a Model of Acute Kidney Injury and Renal Fibrosis in Cat. *Veterinary Pathology*, 53(1): 87-1101.
- Schünke, M. *et al.*, 2016. *Prometheus: Atlas Anatomi Manusia*. 3rd ed. Jakarta: EGC.
- Shen, H., Kreisel, D. & Goldstein, D. R., 2013. Processes of Sterile Inflammation. *J Immunol*, 191(6): 2857-2863.
- Shi, H. *et al.*, 2009. Chlorogenic Acid against Carbon Tetrachloride-Induced Liver Fibrosis in Rats. *European Journal of Pharmacology*, 623: 119-124.
- Shi, H. T. *et al.*, 2015. [Effect of Chlorogenic Acid on Hepatic Stellate Cell Proliferation, Generation and Degradation of Extracellular Matrix]. *Sichuan Da Xue Xue Bao Yi Xue Ban*, 46(3): 372-375.
- Skrypnyk, N. I., Harris, R. C. & de Caestecker, M. P., 2013. Ischemia-reperfusion Model of Acute Kidney Injury and Post Injury Fibrosis in Mice. *Jour Vis Exp*, 78: e50495.
- Spurgeon, K. R., Donohoe, D. L. & Basile, D. P., 2005. Transforming Growth Factor- β in Acute Renal Failure: Receptor Expression, Effects on Proliferation, Cellularity, and Vascularization After Recovery from Injury. *Am J Physiol Renal Physiol*, 288(3): F568-F577.

- Storch, K. N. *et al.*, 2007. Alpha Smooth Muscle Actin Distribution in Cytoplasm and Nuclear Invaginations of Connective Tissue Fibroblasts. *Histochem Cell Biol*, 127(5): 523-530.
- Strutz, F. & Muller, G. A., 2006. Renal Fibrosis and the Origin of the Renal Fibroblast. *Nephrol Dial Transplant*, 21: 3368-3370.
- Strutz, F. & Zeisberg, M., 2006. Renal Fibroblasts and Myofibroblasts in Chronic Kidney Disease. *J Am Soc Neph*, 17(11): 2992-2998.
- Supavekin, S. *et al.*, 2003. Differential Gene Expression Following Early Renal Ischemia/Reperfusion. *Kidney International*, 63: 1714-1724.
- Tajik, N., 2017. The Potential Effects of Chlorogenic Acid, the Main Phenolic Components in Coffee, on Health: A Comprehensive Review of the Literature. *Eur J Nutr*, 56(7): 2215-2244.
- Tanaka, K. *et al.*, 2009. Anti-obesity and Hypotriglyceridemic Properties of Coffee Bean Extract in SD Rats. *Food Sci Technol Res*, 15(2): 147.
- Theiss, A. L., Simmons, J. G., Jobin, C. & Lund, P. K., 2005. Tumor Necrosis Factor (TNF) α Increases Collagen Accumulation and Proliferation in Intestinal Myofibroblasts via TNF Receptor 2. *Journal of Biological Chemistry*, 280(43): 36099-36109.
- Todorovic, V. *et al.*, 2005. Latent TGF-Beta Binding Proteins. *Int J Biochem Cell Biol*, 37(1): 38-41.
- Tortora, G. J. & Derrickson, B., 2012. *Principles of Anatomy and Physiology*. 13rd ed. USA: John Wiley & Sons, Inc.
- Vaidya, V. S., Ferguson, M. A. & Bonventre, J. V., 2009. Biomarkers of Acute Kidney Injury. *Annu Rev Pharmacol Toxicol*, 48: 463-493.
- Varrier, M., Forni, L. G. & Ostermann, M., 2015. Long-Term Sequelae from Acute Kidney Injury: Potential Mechanisms for the Observed Poor Renal Outcomes. *Critical Care*, 19: 102-108.
- Waikar, S. S., Liu, K. D. & Chertow, G. M., 2008. Diagnosis, Epidemiology, and Outcomes of Acute Kidney Injury. *Clin J Am Soc Nephrol*, 3(3): 844-861.
- Walker, L. M. *et al.*, 2001. Oxidative Stress and Reactive Nitrogen Species Generation During Renal Ischemia. *Toxicol Sci*, 63(1): 143-148.
- Wang, Y. *et al.*, 2017. Antischistosomiasis Liver Fibrosis Effects of Chlorogenic Acid through IL-13/miR-21/Smad7 Signaling Interactions In Vivo and In Vitro. *Antimicrob Agents Chemother*, 61(2): e01347-16.
- Wei, Q. & Dong, Z., 2012. Mouse Model of Ischemic Acute Kidney Injury: Technical Notes and Tricks. *Am J Physiol Renal Physiol*, 303: F1487-F1494.
- Wolf, B. R. & Buckwalter, J. A., 2006. Randomized Surgical Trials and "Sham" Surgery: Relevance to Modern Orthopaedics and Minimally Invasive Surgery. *Iowa Orthop J.*, 26: 107-111.
- Wu, D. *et al.*, 2015. Chlorogenic Acid Protects Against Cholestatic Liver Injury in Rats. *Journal of Pharmacological Sciences*, 129(3): 177-182.
- Wu, H. *et al.*, 2007. TLR4 Activation Mediates Kidney Ischemia/Reperfusion Injury. *J Clin Invest*, 117(10): 2847-2859.
- Wynn, T. A., 2008. Cellular and Molecular Mechanisms of Fibrosis. *J Pathol*, 214(2): 199-210.

- Yamaoka, K., Nouchi, T., Marumo, F. & Sato, C., 1993. Alpha-Smooth-Muscle Actin Expression in Normal and Fibrotic Human Liver. *Dig Dis Sci*, 38(8): 1473-1479.
- Yang, L. *et al.*, 2010. Epithelial Cell Cycle Arrest in G2/M Mediates Kidney Fibrosis after Injury. *Nat Med*, 16(5): 535-543.
- Ye, H. Y. *et al.*, 2016. Chlorogenic Acid Attenuates Lipopolysaccharide-Induced Acute Kidney Injury by Inhibiting TLR4/NF- κ B Pathway. *Inflammation*, 4: 523-529.
- Yellon, D. M. & Haunseloy, D. J., 2007. Myocardial Reperfusion Injury. *N Engl J Med*, 357: 1121-1135.
- Yoon, Y. S. *et al.*, 2005. Tgf Beta1 Induces Prolonged Mitochondrial Ros Generation Through Decreased Complex Iv Activity With Senescent Arrest in Mv1lu Cells. *Oncogene*, 24(11): 1895-1903.
- Yuan, S. M., 2015. α -Smooth Muscle Actin and ACTA2 Gene Expressions in Vasculopathies. *Braz J Cardiovasc Surg*, 30(6): 644-649.
- Yun, N., Kang, J. W. & Lee, S. M., 2012. Protective Effects of Chlorogenic Acid Against Ischemia/Reperfusion Injury in Rat Liver: Molecular Evidence of Its Antioxidant and Anti-Inflammatory Properties. *Jour Nutr Biochem*, 23: 1249-1255.
- Zeisberg, E. M. *et al.*, 2008. Fibroblasts in Kidney Fibrosis Emerge via Endothelial-to-Mesenchymal Transition. *J Am Soc Nephrol*, 19(12): 2282-2287.
- Zeisberg, M. & Neilson, E. G., 2010. Mechanisms of Tubulointerstitial Fibrosis. *JASN*, 21(11): 1819-1834.
- Zhang, S. X., 1999. *An Atlas of Histology*. 1st ed. USA: Springer.