DAFTAR PUSTAKA

Abdul Mun'im, Retnosari Andrajati, Henis Susilowati. Uji hambatan tumorigenesis sari buah merah (*Pandanus connoideus* Lam.) terhadap tikus putih betina yang diinduksi 7,12 DimetilBenz(a)Antrasen (DMBA). *Majalah Ilmu Kefarmasian*. 2006; 3(3): 153 - 161

Abraham C., Cho J.H. 2009. Inflammatory Bowel Disease. *NJEM*. 361(21); 2066-78.

Aggarwal B.B., Shishodia S., Sandur S.K., Pandey M.K., Sethi. 2006Inflammation and cancer: How hot is the link? *Biochemical Pharmacology*. 72: 1605-21.

Araki Y., Okamura S., Hussain S.P., Nagashima M., He P., Shiseki M. *et al*. 2003. Regulation of cyclooxginase-2 expression by the Wnt and ras pathways. *Cancer Res*. 63: 728-34.

Asehnoune K., Strassheim D., Mitra S., Kim J.Y., Abraham E. 2004. Involvement of reactive oxygen species in toll-like receptor 4-dependent activation of NF-κB. *J Immunol*. 172: 2522-29.

AVMA Guidelines on Euthanasia. 2007. American Veterinary Medical Association. 1-36.

Backlund M.G., Mann J.R., Dubois R.N. 2005. Mechanisms for prevention of gastrointestinal cancer: the role of prostaglandin E2. *Oncology*. 69 (Suppl 1): 28-32.

Bai S.K., Lee S.J, Na H.J., Ha K.S., Han J.A., Lee H. *et al*. 2005. B-Carotene inhibits inflammatory gene expression in lipopolysaccharide-stimulated macrophages by suppressing redox-based NF-kB activation. *Experiment Mol Med*. 37 (4): 322-34.

Balkwill F., Mantovani A. 2001. Inflammation and cancer: back to Virchow?. *Lancet*. 357: 539-45.

Battistini B., Botting R., Bakhle Y.S. 1994. COX-1 and COX-2: toward the development of more selective NSAIDs. *Drug News Perspect*. 7: 501-12.

Block J.B., Evans S. 2001. A review of recent results addressing the potential interactions of antioxidants with cancer drug therapy. *JANA.* 4(1): 11-9.

Bollrath J., Greten F.R. 2009. IKK/NF-κB and STAT3 pathways: central signaling hubs in inflammation-mediated tumour promotion and metastasis. *EMBO Reports*. 10(12): 1314-19.

Bouma G., Strober W. 2003. The immunological and genetic basis of inflammatory bowel disease. *Nat Rev Immunol*. 3(7): 521-33.

Brown J., Dubois R. 2004. Cyclooxygenase-2 in lung carcinogenesis and chemoprevention, Roger SM Lecture. *Chest*. 125: 134S-40S.

Burstein E., Fearon E.R. 2008. Colitis and cancer: a tale of inflammatory cells and their cytokines. *JCI*. 118(2): 464-7.

Chinery R., Beauchamp D.R., Shyr Y., Kirkland S.C., Coffey R.J., Morrow J.D. 1998. Antioxidants reduce cyclooxygenase-2 expression, prostaglandin production, and proliferation in colorectal cancer cells. *Cancer Research*. 58: 2323-7.

Cho J.H. 2008. The genetics and immunopathogenesis of inflammatory bowel disease. *Nat Rev Immunol*. 8 (6): 458-66.

Coll P.J, Garavito R.M. 1994. The isoforms of cyclooxygenase structure and function. *Expert Opin Invest Drugs.* 3: 1171-80.

Coussens L.M., Werb Z. 2002. Inflammation and cancer. *Nature*. 420: 860-7.

Danese S., Mantovani A. 2010. Inflammatory bowel disease and intestinal cancer: a paradigm of the Yin-Yang interplay between inflammation and cancer. *Oncogene.* 1-11.

Davies G., Martin L.A., Sacks N., Dowsett M. 2002. Cyclooxygenase-2 (COX-2), aromatase and breast cancer: a possible role for COX-2 inhibitors in breast cancer chemoprevention. *Annals of Oncology*. 13: 669-78.

de Visser K.E., Eichten A., Coussens L.M. 2006. Paradoxical roles of the immune system during cancer development. *Nat Rev Cancer*. 6: 24-37.

Dieleman L.A., Palmen M.J., Akol H., Bioemena E., Pena A.S., Meuwissen S.G. *et al*. 1998. Chronic experimental colitis induced by dextran sulfate sodium (DSS) is characterized by Th1 and Th2 cytokines. *Clin Exp Immunol*. 114: 385-91.

Drake R.L., Vogl W., Mitchell A.W.M. 2007. Gray's anatomy for student. Elsevier. Amerika. 279-84.

El-Agamey A., Lowe G.M., McGarvey D.J., Mortensen A., Phillip D.M., Truscott T.G., 2004. Carotenoid radical chemistry and antioxidant/pro-oxidant properties. *Arch. Biochem. Biophys.* 430; 37–48.

Federico A., Morgillo F., Tuccillo C., Ciardiello F., Loguercio C. 2007. Chronic inflammation and oxidative stress in human carcinogenesis. *Int. J. Cancer*. 121: 2381-6.

Gartner L.P, Hiatt J.L. 2007. *Color Textbook of Histology*. 3th ed. Philadelphia : W.B Saunders Company. 398-409

st-Germain M.E., Gagnon V., Parent S., Asselin E. 2004. Regulation of COX-2 protein expression by Akt in endometrial cancer cells is mediated through NF-κB/IκB pathway. *Molecular Cancer.* 3: 1-11.

Gierach G.L, Lacey J.V, Schatzkin A., Leitzmann M.F., Richesson D., Hollenbeck A.R., Brinton L.A. 2008. Nonsteroidal anti-inflammatory drugs and breast cancer risk in the National of Institute-AARP Diet and Health Study. *Breast Cancer Res*. 10; R38.

Gommeaux J., Cano C., Garcia S., Gironella M., Pietri S., Culcasi M. *et al*. 2007. Colitis and colitis-associated cancer are exacerbated in mice deficient for tumor protein 53-induced nuclear protein 1. *Mol. Cell. Biol*. 27 (6): 2215-28.

Greenberg E.R., Baron J.A., Tosteson T.D., Freeman D.H., Beck G.J., Bond J.H., 1994. Clinical-trial of antioxidant vitamins to prevent colorectal adenoma, *N. Engl. J. Med.* 331: 141–7.

Greenhough, A., Smartt, H.J.M., Moore, A.E., Robert, H.R., Williams, A.C., Paraskeva, C., *et al*. 2009. The COX-2/PGE2 pathway: key roles in the

hallmarks of cancer and adaptation to the tumour microenvironment. *Carcinogenesis*. 3 (3): 377-86.

Guidelines on: Choosing an Appropriate Endpoint in Experiments using Animals for Research, Teaching and Testing. 1998. Canadian Council on Animal Care.

Gupta R.A., Dubois R.N. 2001. Colorectal cancer prevention and treatment by inhibition of cyclooxygenase-2. *Nat Rev Cancer*. 1: 11-21.

Halliwell B. 2007. Oxidative stress and cancer: have we moved forward?. *Biochem. J*. 401: 1–11

Hamamoto N., Mamemura K., Hirata I., Murano M., Sasaki S., Katsu K. 1999. Inhibition of dextran sulfate sodium (DSS)-induced colitis in mice by intracolonically administered antibodies against adhesion molecules (endothelial leucocyte adhesion molecule-1 (ELAM-1) or intercellular adhesion molecule-1 (ICAM-1)). *Clin Exp Immunol.* 117: 462-8.

Hana Ratnawati, Khie Khiong, Sylvia Soeng, Sri Utami Sugeng, Evan Kristiono, Shella Hudaya. Pengaruh Ekstrak Buah Merah (*Pandanus conoideus* Lam.) terhadap Berat Limpa, Jumlah dan Proliferasi Limfosit pada Mencit Jantan Galur *Swiss-Webster* yang Diinokulasi *Listeria monocytogenes*. Disampaikan dalam KONAS XII dan PIN PAAI (Perhimpunan Ahli Anatomi Indonesia) 2008. Jakarta, 20-21 Juni 2008.

Hanahan D., Weinberg R.A. 2000. The hallmarks of cancer. *Cell*. 100: 57–70.

Hendra Wijaya, Pohan HG. 2009. Kajian teknis standar minyak buah merah (*Pandanus conoideus* Lam.). *Prosiding PPI Standardisasi*. Jakarta, 19 November 2009.

Hussain S.P., Harris C.C. 2007. Inflammation and cancer : an ancient link with novel potentials. *Int J Cancer*. 121: 2373-80.

Iniquez M.A., Rodriquez A., Volpert O.V., Fresno M., Redondo J.M. 2003. Cyclooxygenase-2: a therapeutic target in angiogenesis. *Tred Mol Med*. 9: 73-8.

I Made Budi. . 2005. Seri Agrisehat Buah Merah. Jakarta: Penebar Swadaya. 17-23.

Ika Wahyuniari, Marsetyawan H.N.E Soesatyo, Muhammad Ghufron, Yustina, Andwi Ari Sumiwi, Sri Wiryawan. 2009. Minyak buah merah meningkatkan aktivitas proliferasi limfosit limpa mencit setelah infeksi listeria monocytogenes. *Jurnal Veteriner*. 10 (3) : 143-9.

Itzkowitz S.H., Yio X. 2004. Colorectal cancer in inflammatory bowel disease: the role of inflammation. *Am J Physiol Gastrointest Liver Physiol*. 287: 7-17.

Jemal A., Siegel R., Ward E., Murray T., Xu J., Thu M.J. 2007. Cancer statistics, CA *Cancer J Clin*. 2007; 57: 43-66.

Karin M. 2008. The IκB kinase-a bridge between inflammation and cancer. *Cell Research*. 18: 334-342.

Karin M., Greten F.R. 2005. NF-κB linking inflammation and immunity to cancer development and progression. *Nature Rev Immunol*. 5: 749-759.

Karin M., Cao Y., Greten F.R., Li Z.W. 2002. NF-κB in cancer: from innocent bystander to major culprit. *Nat Rev Cancer*. 2: 301-310.

Kazi N., Radvan R., Oldham T., Keshavarzian A., Frommel T.O., Libertin C. et al. 1997. Immunomodulatory effect of beta-carotene on T lymphocyte subsets in patient with resected colonic polyps and cancer. *Nutr Cancer*. 28(2): 140-5.

Kelompok Kerja Adenokarsinoma Kolorektal Indonesia. 2004. Pengelolaan Karsinoma Kolorektal Suatu Panduan Klinis Nasional. Jakarta. Hal-1.

Kemas Ali Hanafiah. 2000. Rancangan Percobaan. Teori dan Aplikasi. PT. Raja Grafindo Persada. Jakarta. 6-7.

Khiong K., Murakami M., Kitabayashi C., Ueda N., Sawa S., Sakamoto A. *et al*. 2007. Homeostatically proliferating CD4 T cells are involved in the pathogenesis of an omenn syndrome murine model. *JCI*. 117(5): 1270-81.

Khie Khiong, Hana Ratnawati, Sylvia Soeng, Sri Utami Sugeng, Elsa Angelie, dan Michelle Nasseri. Efek immunomodulator Buah Merah (*Pandanus Conoideus Lam.)* terhadap berat limpa, jumlah dan proliferasi limfosit pada mencit (*Mus musculus)* dalur DDY yang diinduksi colitis dengan DSS. Disampaikan dalam

KONAS XII dan PIN PAAI (Perhimpunan Ahli Anatomi Indonesia) Jakarta, 20-21 Juni 2008.

Khie Khiong, Hana Ratnawati, Sylvia Soeng, Shella Hudaya, Griselda. Pengaruh Buah Merah terhadap Proliferasi Limfosit dan Kadar IFN-γ pada Mencit yang Diinokulasi dengan *Listeria monocytogenes*. Simposium Penelitian Bahan Obat Alami XIV & Muktamar XI PERHIPBA. 11-12 Agustus 2009a. Jakarta.

Khie Khiong, Oeij Anindita Adhika, Melisa Chakravitha. Therapeutic Potential of Red Fruit (*Pandanus conoideus* Lam.) by Inhibiting NF-κB Pathway in the Treatment of Inflammatory Bowel Disease. *Jurnal Kedokteran Maranatha*. 2009. In Press.

Kim T.W., Seo J.N., Suh Y.H., Park H.J., Kim J.H., Kim J.Y. *et al*. 2006. Involvement of lymphocytes in dextran sulfate sodium-induced experimental colitis. *World J.* Gastroenterol. 12(2): 302-305.

Kumar V., Abbas A.K., Fausto N., Mitchell R. 2010. Robbins Basic Pathology. 8th edition. Philadelphia : W.B Saunders Company. 611-616; 617-630.

Kune G.A., Kune S.., Watson L.F. 1988. Colorectal cancer risk, chronic illnesses, operations, and medications: case control results from the Melbourne colorectal cancer study. *Cancer Res.* 48: 4399-4404.

Lin W., Karin M. 2007. A cytokine-mediated link between innate immunity, inflammation, and cancer. *J Clin Invest*. 117(5): 1175-83.

Liu C., Crawford J.M. The Gastrointestinal Tract. In: Kumar V, Abbas AK, Fausto N, eds. 2005. Robins and Cotran Pathologic Basis of Disease, 7th ed. Philadelphia, USA: Elsevier Inc. 846-51.

Loukanov T., Kirilov M., Furstenberger G., Muller-Decker K. 2010. Localization of cyclo-oxygenase-2 in human colorectal cancer. *Clin Invest Med.* 33(1):E22-9.

Luo J.L., Kamata H., Karin M. 2005. IKK/ NF-κB signaling: balancing life and death- a new approach to cancer therapy. *J Clin Invest*. 115(10): 2625-32.

Macmud Yahya H, Bernard T Wahyu Wiryanta. 2005. Khasiat dan manfaat buah merah, si emas merah dari Papua. PT. AgroMedia Pustaka. Jakarta. 24-34.

Mantovani A. 2009. Cancer-related inflammation: the seventh hallmark of cancer. *American Society of Clinical Oncology*. 723-726.

Mayer R.J. 2008. Gastrointestinal Tract Cancer. *Harrison's Principles of Internal Medicine.* In: Fauci, A.S., Kasper, D.L., Longo, D.L., Eugene, B., Hauser, S.L., Jameson,L.J *et al*. New York: Mc Graw Hill. 573-7.

Meira L.B., Bugni J.M., Green S.L., Lee C., Pang B., Borenshtein D. *et al*. 2008. DNA damage induced by chronic inflammation contributes to colon carcinogenesis in mice. *JCI*. 118 (7): 2516-25.

Moore K.L., Dalley A.F., Agur A.M.R. 2010. Clinically oriented anatomy. 6th edition. Lippincott William and Wilkins. Amerika. 246-53.

Mortensen A., Skibsted L.H., Truscott T.G. 2001. The interaction of dietary carotenoids with radical species. *Arch. Biochem. Biophys.* 385: 13–9.

Mutoh M., Watanabe K., Kitamura T., Shoji Y., Takahashi M., Kawamori T. *et al*. 2002. Involvement of prostaglandin E receptor subtype EP_4 in colon carcinogenesis. *Cancer Res.* 62: 28-32.

Niles R.M. 2004. Signaling pathways in retinoid chemoprevention and treatment of cancer. *Mut. Res. Fund.-Mol. Mech. Mutagen*. 555; 81–96.

Ohkawara T., Takeda H., Nishiwara J., Miyashita K., Nihiwaki M., Ishiguro Y. *et al*. 2005. Macrophage migration inhibitory factor contributes to the development of acute dextran sulphate sodium-induced colitis in Toll-like receptor 4 knockout mice. *Clin Exp Immunol.* 141: 412-21.

Okayasu I., Ohkusa T., Kajiura K., Kanno J., Sakamoto S. 1996. Promotion of colorectal neoplasia in experimental murine ulcerative colitis. *Gut*. 39: 819-27.

Oyagbemi A.A., Azeez O., Saba A.B. 2009. Interactions between reactive oxygen species and cancer: the roles of natural dietary antioxidants and their molecular mechanisms of action. *Asian Pacific J Cancer Prev*. 10: 535-44.

Popivanova B.K., Kitamura K., Wu Y., Kondo T., Kagaya T., Kaneko K. *et al*. 2008. Blocking TNF-α in Mice Reduces Colorectal Carcinogenesis Associated with Chronic Colitis. *JCI*. 118 (2): 560-70.

Potack J., Itzkowitz S.H. 2008. Colorectal Cancer in Inflammatory Bowel Disease. *Gut and Liver*. 2(2): 61-73

Pryor W.A. 2000. Vitamin E and heart disease: basic science to clinical intervention. *Free Radic Biol Med*. 28(1):141-64.

Raju J., Swamy M.V., Cooma I., Patlolla J.M.R., Pittman B., Reddy B.S. *et al*. 2005. Low doses of β-carotene and lutein inhibit AOM-induced rat colonic ACF formation but high doses augment ACF incidence. *Int J Cancer*. 113: 798-802.

Rigas B., Sun Y. 2008. Induction of oxidative stress as a mechanism of action of chemopreventive agents against cancer. *British Journal of Cancer*. 98 (7): 1157-60.

Rohman A., Riyanto S., Yuniarti N., Saputra W.R., Utami R., Mulatsih W. 2010. Antioxidant activity, total phenolic, and total flavonoid of extracts and fractions of red fruit (*Pandanus conoideus* Lam). *International Food Research Journal*. 17: 97-106.

Rosenberg D., Giardina C., Tanaka T. 2009. Mouse models for the study of colon carcinogenesis. *Carcinogenesis*. 30(2): 183-96.

Sanford D.M., Monica M.B. 2010. Molecular basis of colorectal cancer. *N Engl J Med*. 361(25): 2449-60.

Sano H., Kawahito Y., Wilder R.L., Hashiramoto A., Mukai S., Asai K. *et al*. 1995. Expression of cyclooxygenase-1 and -2 in human colorectal cancer. *Cancer Res*. 55: 3785-9.

Schetter A.J., Heegaard H.H., Harris C.C. 2009. Inflammation and cancer: interweaving microRNA, free radicals, cytokine and p53 pathways. *Carcinogenesis*. 31(1): 37-49.

Schroeter H., Boyd C., Spencer J.P.E., Williams R.J., Cadenas E., Rice-Evans C. 2002. MAPK signaling in neurodegeneration: influences of flavonoids and of nitric oxide, *Neurobiol. Aging*. 23: 861–80.

Sergei L.G., Greten F.R., Karin M. 2010. Immunity, Inflammation, and cancer. Cell. 140: 883-99.

Seril D.N., Liao J., Yang G.Y., Yang C.S. 2003. Oxidative stress and ulcerative colitis-associated carcinogenesis: studies in humans and animal models. *Carcinogenesis.* 24(3): 353-62.

Seno H., Oshima M., Ishikawa T., Oshima H., Takaku K., Chiba T. *et al*. 2002. Cyclooxygenase-2 and prostaglandin E_2 receptor EP_2-dependent angiogenesis in $APC^{\delta 716}$ mouse intestinal polyps. Cancer Res. 62: 506-11.

Sharoni Y., Danilenko M., Dubi N., Ben-Dor A., Levy J. 2004. Carotenoids and transcription. *Arch. Biochem. Biophys*. 430: 89–96.

Sigmund B., Rieder F., Albrich S., Wolf K., Bidlingmaier C., Gary S. *et al*. 2001. Adenosine kinase inhibitor GP15 improves experimental colitis in mice. *J. Pharmacol Exp Therapeutics*. 296: 99-105.

Sonoshita M., Takaku A., Sasaki N., Sugimoto Y., Ushikubi F., Ohsima H. *et al*. 2001. Acceleration of intestinal polyposis through prostaglandin receptor EP_2 in $APC^{\delta 716}$ knockout mice. *Nat Med*. 7: 1048-51.

Snell R.S. 2008. *Clinical anatomy*. 8th Edition. Philadelphia: Lippincott Williams & Wilkins. 204.

Stevceva L., Pavli P., Buffinton G., Wozniak A., Doe W.F. 1999. Dextran sulfate sodium-induced colitis activity varies with mouse strain but develops in lipopolysaccharide-unresponsive mice. *J. Gastroenterol Hepatol*. 14: 54-60.

Surono I., Nishigaki T., Anang E., Priyo W. 2008. Indonesian Biodiversities, from Microbes to Herbal Plants as Potential Functional Foods. *Shinshu Daigaku Nogakubu Kiyo*. 44(1-2): 23-27.

Surono I.S., Nishigaki T., Endaryanto A., Waspodo P. 2008. Indonesia biodiversities, from micobes to herbal plants as potential functional foods. *Journal of Faculty of Agriculture Shinshu University*. 44 (1): 23-7.

Suzuki R., Kohno H., Sugie S., Nakagama H., Tanaka T. 2006. Strain differences in the susceptibility to azoxymethane and dextran sodium sulfate-induced colon carcinogenesis in mice. *Carcinogenesis*. 27(1): 162-9.

Standring S. 2005. Gray's anatomy. The anatomical basis of clinical practice. 39th edition. Elsevier. Amerika. 1173-1211.

Strober W., Fuss I., Mannon P. 2007. The fundamental basis of inflammatory bowel disease. *J Clin Invest.* 117(3): 514–21.

Swamy M.V., Herzog C.R., Rao C.V. 2003. Inhibition of COX-2 in colon cancer lines by celecoxib increases the nuclear localization of active p53. *Cancer Research*. 63: 5239-42.

Tanaka T. 2009. Colorectal carcinogenesis: Review of Human and Experimental animal studies. *Journal of Carcinogenesis*. 8(5); 1-19.

Tanaka T., Kohno H., Suzuki R., Yamada Y., Sugie S., Mori H. 2003. A novel inflammation-related mouse colon carcinogenesis model induced by azoxymethane and dextran sodium sulfate. *Cancer Sci*. 24(11): 965-73.

Thun M.J., Nanboordiri M.M., Heath C.W. 1991. Aspirin use and reduced risk of fatal colon cancer. *N Engl J Med*. 325: 1593-6.

Tortora G.J., Derrickson B.H. 2009. Principles of Anatomy and Physiology. 12th edition. John Wiley and Sons. 959-63.

Valko M., Rhodes C.J., Moncol J., Izakovic M., Mazur M. 2006. Free radicals, metals and antioxidants in oxidative stress-induced cancer. *Chemico-Biological Interactions.* 160: 1–40.

Vakkila J., Lotze M.T. 2004. Inflammation and necrosis promote tumour growth. *Nature Rev Immunol*. 4: 641-648.

Vane J.R., Bakhle Y.S., Botting R.M. 1998. Cyclooxygenases 1 and 2. *Annu Rev Pharmacol Toxicol*. 38: 97-120.

Wang S., Liu Z., Wang L., Zhang X. 2009. NF-κB signaling pathway, inflammation and colorectal cancer. *Cellular and Molecular Immunology*. 6 (5): 327-34.

Watson R.R., Prabhala R.H., Plezia P.M., Alberts D.S. 1991. Effect of beta-carotene on lymphocyte subpopulations in elderly humans: evidence for a dose-response relationship. *Am J Clin Nutr.* 53(2): 90-4.

White E., Shannon J.S., Patterson R.E. 1997. Relationship between vitamin and calcium supplement use and colon cancer. *Cancer Epidemiol. Biomark. Prev*. 6: 769–74.

Xavier R.J., Podolsky D.K. 2007. Unravelling the pathogenesis of inflammatory bowel disease. *Nature*, 448: 427-34.

Yan Y., Wanshun L., Baoqin H., Changhong W., Chenwel F., Bing L. *et al*. 2007. The antioxidnt and immunostimulating properties of D-glucosamine. *Int Immunopharmacol. 1*: 29-35.

Yoshimura A. 2006. Signal transduction of inflammatory cytokines and tumor development. *Cancer Sci*. 97(6): 439-47.