DAFTAR PUSTAKA

Abdollahi, M and Khaksar, M. R. 2014. Sodium Nitrite. *Elsevier Inc*. Tehran, Iran.

Achitei, D., Ciobica, A., Balan, G., Gologan, E., Stanciu, C., Stefanescu, G. 2013. Different Profile of Peripheral Antioxidant Enzymes and Lipid Peroxidation in Active and Non-active Inflammatory Bowel Disease Patients. *Dig Dis Sci*. **58**:1244-1249.

Adam, S.2010. http://www.medicinenet.com/ulcerative_colitis /article.htm. Diakses pada 12 Desember 2018.

Adiaha, M. S. 2017. Effect of Okra (*Abelmoschus esculentus* L. Moench) on Human Development and its Impact on the Economy of Farmers in Obubra Rainforest Zone of Nigeria. *World News of Natural Sciences*. **10** : 80-85.

Adu, A. A. 2018. Pengaruh Pemberian Daging Se'i Sapi Terhadap Peningkatan Ekspresi Protein p53 *Wild*, Bcl-2 Sel Kolon Mencit Strain *balb/c* Sebagai Indikator Karsinogenesis. *Disertasi.* Universitas Airlangga. Surabaya.

Afrianti, L. H. 2010. *Pengawet Makanan Alami dan Sintetis*. Bandung: Penerbit Alfabeta.

Al-Rejaire, S. S., Abuohashish, H. M., Al-Enazi, M. M., Al-Assaf, A. H., Parmar, M. Y., Ahmed, M. M. 2013. Protective Effect of Naringenin on Acetic Acid-Induced Ulcerative Colitis in Rats. *World J Gastroenterol*. **19**:5633-5644.

Ambarwati, R. 2011. Efek Pemberian Natrium Nitrit ($NaNO_2$) pada Profil Eritrosit Tikus Putih (*Rattus norvegicus*). *Tesis*. Universitas Airlangga. Surabaya.

Ambarwati, R. 2012. Effect of Sodium Nitrite ($NaNO_2$) to Erithrocyte and Hemoglobin Profile in White Rat (*Rattus norvegicus*). *FMI*. **48**:1-5.

American Cancer Society. 2015. *Colorectal Cancer*. Assosiation Cancer Society. Inc. Surveillance Research.

Anna, J. 2012. Analisis Risiko Kandungan Nitrit (No. 2) Pada Daging Olahan di Lingkungan SD Al-Azhar 1 Bandar Lampung. *Laporan Penlitian*. Poltekes Tanjung Karang, Bandar Lampung.

Araki, 2010. Increased Apoptosis and Decreased Proliferation of Colonic Epithelium in Dextran Sulfate Sodium-Induced Colitis in Mice. *Oncol*. *Rep*. 24.

Badan Pengawas Obat dan Makanan RI. 2013. Batas maksimum penggunaan bahan tambahan pangan pengawet pada produk-produk olahan daging, daging unggas dan daging hewan buruan yang dihaluskan tanggal 22 Mei 2013. *Peraturan Badan Pengawas Obat dan Makanan Republik Indonesia*. Nomor 36. Jakarta.

Bag, G.C., Devi, G., and Bhaigyabati, Th. 2015. Assessment of Total Flavonoid Content and Antioxdant Activity of Methanolic Rhizome Extract of Three Hedychium species of Manipur Valley. *International Journal of Pharmaceutical Sciences Review and Research*. **30(1)** : 154-159.

Barus, P. 2009. *Pemanfaatan Bahan Pengawet dan Antioksidan Alami pada Industri Bahan Makanan.* Universitas Sumatra Utara, Medan.

Cadenas, E and Packer. 2002. *Handbook of Antioxidant 2nd Edition Revised and Expanded*. New York.

Cahyadi. 2006. *Bahan Tambahan Pangan*. Bina Rupa Aksara. Jakarta.

Calabrese, V., Mancuso, C., Sapienza, M., Puelo, E., Calanfato, S., Cornelius, C., Finocchiaro, M., Mangiameli, A., Di Mauro, M., Stella, A.M.G dan Castellino, P. 2007. Oxidative Stress and Cellular Stress Respons in Diabetic Neurophaty. *Cell Stress Chaperones*. **12 (4)**: 299-306.

Caluete, M.E.E., Souza, L.M.P.d, Ferreira, E.d.S., Franca, A.P.d. Gandelha, C.A.d.A., Aquino, J.d.S., and Gandelha, T.S. 2015. Nutritional, Antinuritional and Phytochemical Status of Okra Leaves (*Abelmoschus esculentus*) Subjected to Different Processes. *African Journal of Biotechnology*. **14(8)** : 683-687.

Chahar, M. K., Sharma, N., Dobhal, M. P., Joshi, Y.C. 2011. Flavonoids : A Versatile Source of Anticancer Drugs. *Pharmacogn Rev*. **5(9)** : 1-12.

D'Archivio, M., Filesi, C., Vari, R., Scazzocchio, B., Masella, R. 2010. Bioavailability of the Polyphenols : Status and Controversies. *Int J Mol Sci*. **11(4)** : 1321-1342.

Daniel, R.M., Stelian, S., Dragomir, C. 2010, The effect of Acute Physical Exercise on the Antioxidant Status of the Skeletal and Cardiac Muscle in the Wistar Rat. *Romanian Biotechnological Letters*. **Vol. 15**, No. 3, Supplement, p 56-61.

De Roos, A. J., Ward, M. H., Lynch, C. F., and Cantor, K. P.. 2003. Nitrate in Public Water Supplies and the Risk of Colon Andrectum Cancers. *Epidemiology*, **vol. 14**,no. 6, pp. 640–649.

Djojoningrat, D. 2007. Inflammatory Bowel Disease: Alur Diagnosis dan Pengobatannya di Indonesia. Dalam: Sudoyo AW dkk, editor. *Buku Ajar Ilmu Penyakit Dalam. Jilid I. Edisi ke-4*. Jakarta: Pusat Penerbitan Departemen Ilmu Penyakit Dalam FKUI.

Djojoningrat, D. 2011.*Konsensus Nasional Penatalaksanaan Inflammatory bowel disease (IBD) di Indonesia*. Editor: Djojoningrat D, dkk. Jakarta: Interna Publishing.

Doreddula S. K., Srinivasa R. B., Durga P. G., Brahma S. R. D., Nadendla R., Vijayapandi P. 2014. Phytochemical Analysis, Antioxidant, Antistress, and Nootropic Activities of Aqueous and Methanolic Seed Extracts of Ladies Finger (*Abelmoschus esculentus* L.) in Mice. *The Scientific WorldJournal 2014,*1-14.

Fajardo, L. F., Berthrong, M., Anderson, R. E. 2001. *Radiation Pathology*. New York: Oxford University Press. Hlm 288-290.

Frank B, J. 2009. The Dual Roles of Red Blood Cells in Tissue Oxygen Delivery:*Oxygen Carrier Regulator of Local Blood Flow*. Institute of Biology. University of Southern Denmark.

Galsanov, Sh. B., Turova, A. D., Klimenko, E. D. 1976. Effect of Quercitrin on Structural Changes in the Large and Small Intestine in Experimental Enterocolitis. *Bulletin of Experimental Biology and Medicine*. **Vol. 81** : 775-777.

Gehle, K. 2013. Nitrite/Nitrate Toxicity : Case Study in Enviromental Medicine. *ATSDR*. Atlanta.

Glickman R, M. 2000. Penyakit Radang Usus (Kolitis Ulseratif dan penyakit Crohn). Dalam: Asdie AH, editor. Harrison. *Prinsip-prinsip Ilmu Penyakit Dalam. Volume 4. Edisi ke-13*. Jakarta: Penerbit Buku Kedokteran EGC.

Gopalan, C., Rama Sastri, B.V. and Balasubramanian, S. 2007. Nutritive Value of Indian Foods. *NationalInstitute of Nutrition (NIN)*, ICMR.

Haenen, G.R., Paquay, J.B., Korthouwer, R.E., Bast, A. 1997. Peroxynitrite Scavenging by Flavonoids. *Biochem Biophys Res Commun*. **236**:591-593.

Halliwel, B. 2001. Food-Derivied Antioxidants : How to Evaluate their Importance in Food and in Vivo. In *Handbook of Antioxidants* (pp.20-56). CRC Press.

Harper W. F Jr., Takeuchi Y., Riya S., Hosomi M., Terada A.2015. Novelabiotic Reactions Increase Nitrous Oxide Production During Partial Nitrification: Modeling and Experiments. *Chem Eng J.* **281**:1017–1023

Hasnah, H dan Dyah, S. 2012. Analisis Kandungan Nitrit dalam Sosis pada Distributor Sosis di Kota Yogyakarta Tahun 2011. *Jurnal Kesehatan Masyarakat* **(1)** : 1-74.

Himah, S. E. F. 2017. Efek Ekstrak Etanol Rimpang Kunyit (*Curcuma longa*) Terhadap Struktur Histologi Kolon Tikus Putih (*Rattus norvegicus*) yang Diinduksi Dextran Sodium Sulphate (DSS). *Skripsi*. Universitas Jember. Jember.

Hord NG, Tang Y, and Bryan N. 2009. Food Sources of Nitrate and Nitrite : The Physiologic Context for Potential Health Benefits. *The American Journal F Clinical Nutition*. USA.

Jain, N., Jain, R., Jain, V., and Jain, S. 2012. A Review on: *Abelmoschus esculantus*. *Pharmacia*. **3**: 84-89.

Jawi, I.M.,Suprapta, D.N. dan Subawa, A.A.N. 2008. Ubi Jalar Ungu Menurunkan Kadar MDA dalam Darah dan Hati Mencit setelah Aktivitas Fisik Maksimal. *Jurnal Veteriner.* **9 (2)** : 65-72.

Jugde T. A and Lichtenstein G. R. 2009. Inflammatory Bowel Disease. In: Friedman SL, McQuaid KR, Grendell JH, editors. *Current Diagnosis and Treatment in Gastroenterology. 2nd ed*. International ed.: McGraw-Hill. p. 108-30.

Jusuf, A. A. 2007. Aspek Histologi Sistim Pencernaan. *Diktat Kuliah Histologi (Modul Gastrointestinal)*. Jakarta : Fakultas Kedokteran Universitas Indonesia.

Khomsug, P., Thongjaroenbuangam, W., Pakdeenarong, N., Suttajit, M., and Chantiratikul P. 2010. Antioxidative Activities and Phenolic Content of Extracts from Okra (*Abelmoschus esculentus* L.). *Research Journal of Biological Sciences*. **5(4)** : 310-313.

Kohn, M. C., Melnick, R. L., Ye, F., Portier, C. J. 2002. Pharmacokinetics of Sodium Nitrite-Induced Methemoglobinemia in the Rat. *Journal Drug Metabolism and Disposition*. **Vol. 30** : 676-683. USA.

Kumalaningsih, S. 2006. *Anioksidan Alami*. Cetakan Pertama. Surabaya: Trubus Agrisarana. Halaman 8, 16-18.

Kusumawati, D. 2004. *Bersahabat dengan Hewan Coba*. Yogyakarta : Gajah Mada University Press.

Li, Y. Q., Roberts, S.A., Paulus, U., Loeffler, M., Potten, C. S. 1994. The Crypt Cycle in Mouse Small Intestinal Epithelium. *J Cell Sci*. **(107):** 3271-3279.

Liao H., Wenqi D., Xiangjun S., Hualiang L., Ke Y. 2012. Analysis and Comparison of the Active Components and Antioxidant Activities of Extracts from *Abelmoschus esculentus* L. *pharmacognosy Magazine.* **8(30)**, 156-161.

Lundberg J, Weitberg E, Gladwin MT. 2008. The Nitrate-Nitrite-Nitric Oxide Pathway in Physiology and Therapeutics. *Nature Review Drug Discovery*. **Vol 7**. Pp 156-167.

Mann, W. J. 1991. Surgical Management of Radiation Enteropathy. *J Surg Clin North Am*. **(71)**:977-990.

Marc D. B. 2011. http://emedicine.medscape.com/article/183084-overview. Diakses pada 12 Desember 2018.

Medina, F. S., Vera, B., Galvez, J., Zarzuelo, A. 2002. Effect of Quecertin on the Early Stage of Hapten Induced Colonic Inflammation in the Rat. *Life Sci*. **70**:3097-3108.

Mello, R. D O., Da Silva, C. M. G., Fonte, F. P., Silva, D. L. F., Pereira, J. A., Margarido, N.F., Martinez, C. A. R. 2012. Evaluation of the Number of Goblet Cells in Crypts of the Colonic Mucosa with and without Fecal Transit. *Rev Col Bras Cir*. **39(2)**: 139-145.

Mesher, A. L. 2012. *Histologi Dasar Junquiera. Teks dan Atlas*. Jakarta : Penerbit buku kedokteran EGC.

Miller, M. J and Sandoval, M. 1999. Nitric Oxide III. A Molecular Prelude to Intestinal Inflammation. *Am J Physiol.* **276**: 795-799.

Montgomery, D. C. 2001. *Introduction Non to Sratistical Quality Control. Fourth Edition.* Canada : John Wiley & Sons, Inc.

Murray R. K., Granner D.K., Rodwell V.W., 2009. *Biokimia Harper,* (Andri Hartono). Edisi 27. Penerbit Buku Kedokteran, EGC. Jakarta.

Ningsih, E. M. 2012. Studi Histopatologi Potensi Radioprotektif Ekstrak Kelopak Rosela (*Hibiscus sabdariffa* L.) Terhadap Duodenum Mencit (*Mus musculus*) dengan Radiasi Ionisasi Radiodiagnostik Berulang. *Skripsi*. Institut Pertanian Bogor. Bogor.

Ozen, H., Kamber, U., Karaman, M. 2014. Histopathologic, Biochemical and Genotoxic Investigations on Chronic Sodium Nitrite Toxicity in Mice. *Experimental and Toxicologic Pathology*. **Vol. 66**, no. 8, pp. 367–375.

Paravicini, T.M. and Touyz, R.M. 2008. NADPH Oxidases, Reactive Oxygen Species, and Hypertension: Clinical Implications and Therapeutic Possibilities. *Diabetes Care*. **31**, S170-S180.

Parker, G. A andPicut C. A. 2016. *Atlas of Histology of The Juvemil Rat*. London: British Library Cataloguing in Publication Data.

Parwata, M. O. A. 2015. *Antioksidan*. Bahan Ajar Uji Bioaktivitas. Bali : Universitas Udayana.

Piechota-Polanczyk, A and Fichna, J. 2014. The Role of Oxidative Stress in Pathogenesis and Treatment of Inflammatory Bowel Diseases. Naunyn-Schmiedeberg's Arch. *Pharmacol*. **387**:605-620.

Porth, C. M. 1998. *Pathophysiology : Concepts of Altered Health States*. English : Philadelphia Lippincott Raven.

Price, A and Wilson. 2006. *Patofisiologi Konsep Proses-Proses Penyakit, Edisi IV*. Jakarta : EGC.

Purwono, P. B. 2018. Pengaruh Pemberian Zinc Terhadap Respons Inflamasi Jaringan Kolon yang Terinfeksi *Shigella sonnei* (Studi *In Vivo* pada Tikus Putih (*Rattus norvegicus*)). *Tesis*. Universitas Airlangga. Surabaya.

Rahal, A., Kumar, A., Singh, V., Yadav, B., Tiwari, R., Chakraborty, S., and Dhama, K. 2014. Oxidative Stress, Prooxidants, and Antioxidants : the Interplay. *BioMed Research International*, *2014*.

Rezaire A., Parker, R. D., Abdollahi, M. 2007. Oxidative Stress and Pathogenesis of Inflammatory Bowel Disease : An Epiphenomenon or the Cause. *Dig Dis Sci*. **52**:2015-2021.

Rizki, K. P., Rochmah, W. W., Cempaka, N. G., Hartono, S., Fajrin, F. A. 2015. Aktivitas Antikanker Pektin Kulit Buah Kakao Terhadap Jumlah Sel Goblet Kolon. *IJPST*. **Vol 2**: 3.

Roy, A., Shrivastava, S.L., and Mandal, S.M. 2014. Functional Properties of Okra *Abelmoschus esculentus* L. (Moench): Traditional Claims and Scientific Evidences. *Plant Science Today.* 1(3): 121-130.

Sander, M.A. 2009. Profil Penderita Kanker Kolon dan Rektum di RSUP Hasan Sadikin Bandung. *Skripsi*. Fakultas Kedokteran Universitas Muhammadiyah, Malang.

Savira, N. I. I. 2018. Efek Antioksidan Ekstrak Metanol Buah Okra (*Abelmoschus esculentus* L.) terhadap Aktivitas Superoksida Dismutase, Kadar Nitrit, dan

Kadar Malondialdehid pada *Mus musculus* yang Dipapar Timbal Asetat. *Tesis*. Universitas Airlangga. Surabaya.

Sayuti, K dan Yenrina, R. 2015. *Antioksidan Alami dan Sintetik*. Padang : Andalas University Press.

Sherwood, L. 2013. *Fisiologi Manusia, Dari Sel ke Sistem*. Terjemahan oleh Brahm U Pendit. Jakarta : Penerbit Buku Kedokteran EGC.

Sichel, G., Corsaro, C., Scalia, M., Di Bilio, A.J., Bonomo, R.P. 1991. In Vitro Scavenger Activity of some Flavonoids and Melanins Against O_2^{-dot}. *Free Radic Biol Med*. **11**:1-8.

Stanojevic, D., Comic, L., Stefanovic, O. and Solujic-Sukdolak, S. I. 2009. Antimicrobial Effects of Sodium Benzoate, Sodium Nitrite and Potassium Sorbate and their Synergistic Action in Vitro. *Bulgarian J. Agricul. Scie.* **15**: 307-311.

Tedja, L and Abdullah, M. 2013. Chronic Inflamation in Colorectal Carsinogenesis: Role of Inflammatory Mediators, Intestinal Microbes and Chemo Prevention Potency. *Indian Journal of Gastroenterology*. **1(14)**: 29-34.

Treuting, P.M andDintzis, S. M.. 2012. *Comparative Anatomy and Histology a Mouse and Human Atlas*. London : British Library Cataloguing in Publication Data.

Tripathi, K. K., Wrrier R., Govila O. P. 2011. *Series of Crop Spesific Biology Documents : Biology of Okra*. New Delhi: Department of Biotechnology-Ministry of Science and Technology-Goverment India.

U.S. Departement of Agriculture. 2010. USDA National Nutrient Database for Standard Reference. *http://www.ars.usda.gov.* diakses tanggal 13 November 2018.

Urso, M.L and Clarkson, P.M. 2003, Oxidative Stress, Exercise, and Antioxidant Supplementation. *Toxicology.* **189(1-2):**41-54

Waruwu, F.I.P. 2010. Pemeriksaan Kandungan Nitrit pada Produk Daging Sapi Olahan yang Dijual di Swalayan Kota Medan Tahun 2010. *Prosisding*. Universitas Sumatra Utara, Medan.

Wicaksono M.H dan Permana S. 2013. Potensi Fraksi Etanol Benalu Mangga (*Dendrophthoe pentandra*) sebagai Agen Antikanker Kolon pada Mencit (*Mus musculus* Balb/c) setelah Induksi Dextran Sodium Sulfat (DSS) dan Azoxymethane (AOM). *Jurnal Biotropika*. **1(2):**75–79.

Winarno, F.G. 2004. *Kimia Pangan dan Gizi*. Jakarta : Gramedia Pustaka Utama.

Winarsi, H. 2007. *Antioksidan Alami dan Radikal Bebas*. Yogyakarta: Penerbit Kanisius. Hal. 77.

World Health Organization. 2014. *Cancer*. http://www.who.int/mediacentre/. diakses tanggal 21 November 2018.

Zhang, W., Liu, H., Rojas, M., Caldwell, R.W dan Caldwell, R.B. 2011. Anti Inflammatory Therapy for Diabetic Retinopathy. *Immunotherapy.* **3**: 609-628.

Zheng W. and Wang S.Y., 2009. Antioxidant Activity and Phenolic Compounds in Selected Herbs. *J.Agric.Food Chem*. **49 (11)** : 5165-70.