

## DAFTAR PUSTAKA

- Abdel-Aal, El Sayed, Christoper, J. Y., and Rabalski, I. 2006. Anthocyanin Composition in Black, Blue, Pink, Purple, and Red Cereal Grain. *Journal of Agricultural and Food Chemistry* 54 : 4696 - 4704.
- Ahmed, D., Eide, P. W., Eilertsen, I. A., Danielsen, S. A., Eknaes, M., Hektoen, M., Lind, G. E., Lothe, R. A. 2013. Epigenetic and Genetic Features of 24 Colon Cancer Cell Lines. *Oncogenesis* 2, e71; doi:10.1038/oncsis.2013.35.
- Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K., Walter, P. 2008. *Molecular Biology of The Cell* Fifth Edition. UK : Garland Science.
- Amalia, R. A. 2015. Efek Fraksi Ekstrak Metanolik Dan Air Bekatul Padi (*Oryza Sativa* L.) ‘Cempo Ireng’ Terhadap Induksi Apoptosis Dan Profil Siklus Sel T47d Dan Widr. *Tesis*. Program Pascasarjana, Fakultas Biologi Universitas Gadjah Mada, Yogyakarta.
- Amri, E. 2014. The Role of Selected Plant Families with Dietary Ethnomedicinal Species Used as Anticancer. *Journal of Medicinal Plants Studies* 2 (1) : 28 –39.
- Anggraeni L. N. 2011. Aktivitas Antioksidan Tiga Varietas Padi (*Oryza sativa* L. var. Cempo Ireng, var. Cempo Abang, dan var IR-64. *Laporan Seminar*. Program Sarjana, Fakultas Biologi Universitas Gadjah Mada, Yogyakarta.
- Anonim. 1995. *Farmakope Indonesia. Edisi IV (7)*. Departemen Kesehatan Indonesia. Jakarta.
- Anonim. 1996. Laporan Pengkajian Tahun Anggaran 1996 / 1997, *Kapsulisasi Ekstrak Daun Benalu di Daerah Istimewa Yogyakarta*, sentra P3T Propinsi D.I. Yogyakarta.hemist. 2002.
- Anonim, 2009., *Protokol In Vitro, Cancer Chemoprevention Research Center*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Anonim. 2010. Mari lestarikan Padi Hitam Lokal. Administrator BPTP Jogjakarta. *Bulletin of Academica Sinica* 45 ; 179-186.
- Anonim. 2011. Antiinflammatory drug-mediated apoptosis. *Proceeding of the National Academic of Sciences of united State of America* 95; 681-686.
- Ansel, H. C. 1989. *Pengantar Bentuk Sediaan Farmasi*. Terjemahan ;Farida Ibrahim. Edisi Keempat. Universitas Indonesia Press. Jakarta.
- Ansel, H.C., 1989, *Pengantar Bentuk Sediaan Farmasi*, diterjemahkan olehFarida Ibrahim, Asmanizar, Iis Aisyah, Edisi keempat, 255-271, 607-608,700, Jakarta, UI Press.
- Antiinflammatory drug-mediated apoptosis. *Proceeding of the National Academic of Sciences of the United Stated of America* 95: 681-686.
- AOAC International methods committee guidelines of validation of qualitative and quantitative food microbiological official methods of analysis. *J AOAC int.* 85 : 1-5.
- Apridamayanti, Pratiwi. 2014. Analisis Antosianin dan Kandungan Nutrien pada Bekatul Beras Hitam (*Oryza sativa* L. cv Cempo Ireng Sayegan, Yogyakarta). *Tesis*. Program Pascasarjana, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.

- Artanti, N. A. 2014. Sinergisitas Efek Sitotoksik Brazilein dan Cisplatin melalui Modulasi Siklus Sel dan Induksi Apoptosis pada sel kanker payudara T47D. *Tesis*. Program Pascasarjana. Fakultas Farmasi. Universitas Gadjah Mada. Yogyakarta.
- Asprey, G.F., Thornton P. 2000. Medical plants of Jamaica Part 1-11. *West Indian Journal 2* : 1-86.
- Badan Registrasi Kanker, 1998. *Badan Registrasi Kanker*. Ikatan Ahli Patologi Indonesia – Departemen Kesehatan Republik Indonesia, Jakarta.
- Banjerdpongcahi, Wudtiwae, B., Sringharm. 2013. *The Cytotoxic Effect of Purple Rice Extract on Human cancer cells related to their active compound*. Asean food conference 2013.
- Baran, W., Szepietowski, J.C. and Szybejko-Machaj, G. 2005. Expression of p53 Protein in Psoriasis. *Acta Dermatoven APA* 14(3): 79-83.
- Barzegar, E., Fouladdel, S., Komeili Movahhed, T., Atashpour, S., Ghahremani, M. H., Ostad, S. N., Azizi, E. 2015. Effects of Berberine on Proliferation, Cell Cycle Distribution and Apoptosis of Human Breast Cancer T47D and MCF7 Cell Lines. *Iran Journal of Basic Medical Science* 18 : 334-342.
- Battacharjee, P., Shinghal. R.S., Kulkarno, P.R. 2002. Basmati Rice ; A review. *Int. J. Food Sci. Tech.* 37 (1) ; 1-12.
- Beskow, A. 2003. *Genetic Risk Factor for Cervical Carcinoma in situ*. Acta Universalis Upsaliensis, Upsala.
- Bogoriani, N.W., Santi, S.R., dan I. A. R. Astiti Asih. 2007. Isolasi Senyawa Sitotoksik dari Daun Andong (*Cordyline terminalis* Kunth). *Jurnal Kimia* 1 (1): 1-6.
- Bosch, F.X., Lorincz, A., Munoz, N., Meijer, C.J., and Shah, K.V. 2002. The Causal Relation Between Human Papillomavirus and Cervical Cancer. *Journal of Clinical Pathology*. 55 (4): 244-265.
- Brooks, Geo. F., Butel, Janet S., dan Morse, Stephen A. 2005. *Mikrobiologi Kedokteran jilid 2*. Jakarta:Salemba Medika, p. 103-108
- Budiyanto, M., Agus K. 2002. *Mikrobiologi Terapan*. Malang: UMM Press, p. 139-143.
- Cai, H., Al-Fayez, M., Tunstall, R. G., Platton, S., Greaves, P., Steward, W. P., Gescher, A. J. 2005. The Rice Bran Constituent Tricin Potently Inhibits Cyclooxygenase Enzymes and Interferes with Intestinal Carcinogenesis in *Apc Min* Mice. *Molecular Cancer Therapeutics* 4 (9) : 1287-1292.
- Campbell, N.A., Reece, J.B, dan Mitchel. L.G. 2004. *Biologi*. Edisi Kelima, Jilid 3. Jakarta, Erlangga.
- Cazes, Jack. 2005. *Encyclopedia of Chromatography*. New York: Marcel Dekker Inc.
- Chasanah, S.T. 2015. Kadar serum Glutamic Pyruvate Transaminase Dan bilirubin Darah Tikus (*rattus Norvegicus Berkenhout, 1769*) Hiperlipidemiadengan Asupan Pelet Nasi Dan Bekatul Beras Hitam Padi (*oryza Satival.*) “cempo Ireng”. *Skripsi*. Fakultas Biologi, Universitas Gadjah Mada.
- Chaudary, R. C. and D. V. Tran. 2001. *Specialty Rice of the World: A Prologue In : Specialty rice Of The World; Breeding, Production And Marketing*. Enfiled, N.H.(Usa): Science Publisher.Inc amd FAO. Pp 3-12.

- Chen, P., W. Kuo., C.Chiang., H Chiou., Y.Hsieh., S. Chu. 2006. Black Rice Anthocianin Inhibit Cancer Invasion Via Repressions Op Mmps And U-Paekspresion. *Chemico-Biological Interactions*. 218-229.
- Chen, P-N., Chu, S-C., Chiou, H-L., Chiang, C-L., Yang, S-F and Hsieh, Y-S. 2005. Cyanidin 3-Glucoside and Peonidin 3-Glucoside Inhibit Tumor Cell Growth and Induce Apoptosis In Vitro and Suppress Tumor Growth In Vivo. *Nutrition and Cancer* 53 (2) : 232-243.
- Choi, E. J., & Kim, G. H. 2009. Apigenin Induces Apoptosis through A Mitochondria/Caspase-Pathway in Human Breast Cancer MDA-MB-453 Cells. *Journal of Clinical Biochemistry and Nutrition* 44 (3) : 260-265.
- Choi, S.P., S. P. Kim., M.Y. Kang., S. H. Nam., and Friedman. 2010. Protective Effects Of Black Rice Bran Against Chemical-Induced Inflammation Of Mouse Skin. *Journal Of Agricultural And Food Chemistry*. 58, 10007-10015.
- Crowell, J. A., Fraley, R. C., & Shaver, P. R. (1999). Measurement of individual differences in adolescent and adult attachment. In J. Cassidy & P. R. Shaver (Eds.), *Handbook of attachment: Theory, research, and clinical applications* (pp. 434-465). *New York: The Guilford Press*.
- Cypatol, D. 2009. *Evaluation flowcytometric immunophenotyping and DNA analisis for detection of malignant cells in serosal cavity fluids*. Juli 37 (7) ; 498-504.
- Dalimarta, S. 2003. *Atlas Tumbuhan Obat Indonesia Jilid II*. Puspa Swara, Jakarta.
- Darma, A. P., Pratama, R. H., dan Sukamdi, D. P. 2008. *Mengungkap Potensi Tersembunyi Kedelai sebagai Agen Kemopreventif yang Potensial*. Universitas Gajah Mada, Yogyakarta.
- Davey, H., Douglas, K. 1996. *Flowcytometry and Cell Sorting of Heterogenous Microbial Reviews* 60 (4) ; 641-696.
- David, M.L. and Shivdasani, R. 2001. Toward Mechanism, Based Cancer Care Research Opportunities For Spesifik Disease and Disondens. *Journal of the American Medical Association* 285 (5): 588-589.
- De Vita V.T., Hellman S., and Rosenberg S.A., (eds), *Cancer Principles & Practice of Oncology*. 6th ed. Lippincott William & Wilkins. Philadelphia. 2001. pg. 2609-1215.
- De Vita, V.T., Helman, S., and Rosenberg, S.A. 1997. *Cancer Principles and Pranchise of Oncology* 5<sup>th</sup> Edition Vol 1. Lippincott Roven, Philadelphia.
- Depkes RI. 1995. *Materia Medika Indonesia Jilid II*. Departemen Kesehatan RI, Jakarta.
- Dewi, S. M., Fajar, R., Nestri, H., dan Rita, R. 2009. Penentuan Kandungan Kimia dan Uji Toksisitas Ekstrak Etanol Buah Merah (*Pandanus conoideus* Lam). Laporan Penelitian DP2M Hibah Bersaing LPPM UNS. Surakarta.
- Djajanegara, I. dan Wahyudi, P. 2009. Pemakaian Sel Hela dalam Uji Sitotoksisitas Fraksi Kloroform dan Etanol Ekstrak Daun *Annona squamosa*. *Jurnal Ilmu Kefarmasian Indonesia* 7 (1): 7-11.
- Doyle, A. and Griffith J.B. 2000. *Cell and Tissue Culture for Medical Research*. John Wiley and Sons, New York.

- Dwinani, S. N. 2014. Kemampuan Ekstrak Etanol Bekatul Beras Hitam Dalam Menurunkan Kadar Glukosa Darah Pada Tikus Nefropati Diabetes. *Skripsi*. Universitas Muhammadiyah Surakarta.
- Fey, M.F. 2009. *Molecular Biology of Cancer*. In: Textbook of Medical Oncology. 4 Edition. Edited by: Franco Cavalli, Stan B. Kaye, Heine H. Hansen, James O. Armitage, and Martine J. Piccart-Gebhart. Informa Healthcare Ltd. London. Pp: 1-26. Nd
- Fithriyati, M.N.C. 2015. Perbandingan Efek AntiInflamasi Ekstrak Antosianin Beras Hitam (*Oryza Sativa L*) Dan Ubi Jalar Ungu (*Ipomoea batatas poiret*) Pada Tikus Diabetes Melitus Tipe Dua. *Tesis*. Pascasarjana Ilmu Teknologi Pangan, Universitas Gadjah Mada.
- Forster, G.M., K. Raina., A. Kumar., S. Kumar., R. Agarwal., M. Chen., J. E. Bauer., A. M. McClung., E. P. Ryan. 2013. Rice Varietal Differences in Bioactive Bran Components for Inhibition of Colorectal Cancer Cell Growth. *Journal of Food Chemistry*. 15451552.
- Fredika, E. 2002. Masalah Potensi dan Saran Solusi Pengembangan Komoditi Buah di Kabupaten Solok. *Jurnal Ilmu Pertanian Farming* 1: 18-21.
- Freshney, R.I. 2000. *Culture of Animal Cells: A manual of Basic Techniques* 4<sup>th</sup> Ed Wiley-Lies, Canada.
- Friedman, M. 2013. Rice Brans, Rice Bran Oil and Rice Hulls : Cpmposition Food and Industrial Uses, and Bioactivities in Humans, Animals and Cells. *Journal of agricultural and food chemistry*.
- Gamse, T. 2002. *Liquid-liquis extraction and Solid-Liquid Extraction, Institute of Thermal Process and Enviromental Engineering*. Graz University Tecnology. Hal. 2-24.
- Ganiswara, S.G., Setiabudi, Suyana F.D., dan Purwastyastuti. 1995. *Farmakologi dan Terapi*. UI Press, Jakarta.
- Gewirtz, D.A., 1999, A critical evaluation of the mechanisms of action proposed for the antitumor effects of the anthracycline antibiotics adriamycin and daunorubicin, *Biochem. Pharmacol.*, 57:727-741.
- Gordon, M.H. 1990. The Mechanism of Antioxidants Action In Vitro. In B.J.F. Hudson, editor. *Food Antioxidants*. Elvesier Applied Science. London.
- Gritter, R.J., Bobbit, J. M., dan Arthur, E.S. 1991. *Pengantar Kromatografi*. ITB Press, Bandung.
- Guo, H., Ling, W., Wang, Q., Liu, C., Hu, Y. 2007. Effect of Anthocyanin-rich Extract from Black Rice (*Oryza sativa L. indica*) on Hyperlipidemia and Insulin Resistance in Fructose-fed Rats. *Plant Foods for Human Nutrition* 62 : 1 – 6.
- Hai, Y. and Xiang, L. 2008. Study The Optimum of Annonaceous *Acetogenins* from Seeds of *Annona Glabra L* by Supercritical Fluid CO<sub>2</sub> Extraction. *Journal of US-China Medical Science* 5 (1): 56-58.
- Hanahan, D., and Weinberg, R.A. 2000. The Hallmark of Cancer. *Cell* 100 (1): 57-70
- Harborne, J.B. 1987. *Metode Fitokimia*. ITB Press, Bandung.
- Harfia, M., (2006), *Uji Aktivitas Ekstrak Etanol 50% Ubi Keladi Tikus (Typhonium flagelliforme (Lood) Bl) terhadap Sel Kanker Payudara*

- (MCF-7 Cell line) secara *In-Vitro*, Puslit bang Biomedis dan Farmasi, Badan Litbang Kesehatan.
- Haryadi, 2008, Teknologi Pengolahan Beras, Gadjahmada University Press, Yogyakarta.
- Hembing, T. 2005. *Cegah kanker usus besar (karsinoma kolorektal) dengan pola hidup sehat*. (<http://portal.cbn.net.id/cbprtl/cybermed/detail.aspx?x=Hembing&y=cybermed%7C0%7C0%7C8%7C84>) . Diakses tanggal 22 Juni 2015.
- Hite, R. Ann, M. 2001. *Stregth and Weakness of Flowcytometry*. <http://www.unc.edu>. 19 April 2015.
- Hou, D. X., Kai, K., Li, J. J., Lin, S., Terahara, N., Wakamatsu, M., Fujii, M., Young, M. R., Colburn, N. 2004. Anthocyanidins Inhibit Activator Protein 1 Activity and Cell Transformation: Structure–Activity Relationship and Molecular Mechanisms. *Carcinogenesis* 25 : 29 – 36.
- Hou, Z., Qin, P., Ren, G. 2010. Effect of Anthocyanin-rich Extract from Black Rice (*Oryza sativa* L. *Japonica*) on Chronically Alcohol-induced Liver Damage in Rats. *Journal of Agricultural and Food Chemistry* 58: 3191 – 3196.
- Houston, D.F. 1972. *Rice; Chemistry and Tecnology*, American Association of Cereal Chemist St.Paul.
- Hui, C., Bin, Y., Xiaoping, Y., Long, Y., Chunye, C., Mantian, M., Wenhua, L. 2010. Anticancer Activities of an Anthocyanin-Rich Extract From Black Rice Against Breast Cancer Cells In Vitro and In Vivo. *Nutrition and Cancer* 62 (8) : 1128-1136.
- Hussein, M. A. 2007. Preclinical Rationale, Mechanisms of Action, and Clinical Activity of Anthracyclines in Myeloma. *Clinical Lymphoma Myeloma* 4 : 145-149.
- Hyun, J. W. and Chung, H. S. 2004. Cyanidin and Malvidin from *Oryza sativa* cv. Heugjinjubyeo Mediate Cytotoxicity against Human Monocytic Leukemia Cells by Arrest of G2/M phase and Induction of Apoptosis. *Journal of Agricultural and Food Chemistry* 52 (8) : 2213 – 2217.
- Islam, M.D., Nagasaka, R. Ohara, K., Hosoya, T., Ozaki, H. Ushio, H., Hori, M. 2011. Biological Abilities of Rice Bran-Derived Antioxidant Phytochemical for Medical Therapy. *Currents Topics medicinal Chemistry* 11; 1847 – 1853.
- Jemal, A., Bray, F., Center, M. M., Ferlay, J. Ward, E., Forman, D. 2011. Global Cancer Statistics. *A Cancer Journal for Clinicians* 61 : 69 – 90.
- Johnson, A. I. and Bridgham, J.T. 2000. Caspase-3 and 6 Expression and enzymes activity in hen granulose cells. *J. Biol. Reprod.* 62 ; 589 – 598.
- Juliano, B.O. 1985. *Rice: Chemistry anf Technology*, 2<sup>nd</sup> ed, St. Paul Minesota.: AACC.
- Kaczmarek, A., Cielecka-Piontek, J., Garbacki, P., Lewandowska, K., Bednarski, W., Barszcz, B., Zalewski, P., Kycler, W., Oszczapowicz, I., and Jelinska, A. 2013. Radiation Sterilization of Anthracycline Antibiotics in Solid State. *The Scientific World Journal* 258758.
- Kakizoe and tadao, 2003. ‘Chemoprevention of cancer Focusing on Clinical Trials’. *Japan Journa Clinic Oncology*. 33(9). 421-442.

- Kaneda, I., Kubo, F., Sakurai, H. 2006. Antioxidative Compounds in The Extracts of Black Rice Brans. *Journal of Health Science* 52 (5) : 495 – 511.
- Katsube, N., Iwashita, K., Tsushida, T., Yamaki, K., Kobori, M. 2003. Induction of Apoptosis in cancer cells by biliberry and the anthocyanins. *Journal of Agricultural and food chemistry*. 51 ; 68-75.
- Katzung, B.G.1992. *Farmakologi Dasar dan Klinik*. Basuc and Clinical Pharmacology, Jakarta.
- Kim, H.-W., Lee, A., Yeo, S.K., Chung, H., Lee, J.H., Hoang, M.-H., Jia, Y., Han, S.-I., Oh, S.-K., Lee, S.-J. 2013. Metabolic Profiling and Biological Mechanisms of Body Fat Reduction in Mice Fed The Ethanol Extract of Black-Colored Rice. *Food Research International* 53 : 373-390.
- Kim, M.-K., Kim, H., Koh, K., Kim, H.-S., Lee, Y.S., Kim, Y.H. 2008. Identification and Quantification of Anthocyanin Pigments in Colored Rice. *Nutrition Research and Practice* 2 : 46–49.
- King, R.J.B., 2000. *Cancer Biology, 2nd Edition*. Pearson education Limited and, London.
- King, R.A. 2000. The role of polyphenol in human health. In : Brooker (ed). Tannin in Livestock and Human Nutrition. *ACIAR Proceedings* No. 92. pp 202-234.
- Kinzler, K.W. And B. Vogelstein, 1998. Mechanism underlying nonsteroidal antiinflammatory drug-mediated apoptosis. *Proceeding of National Academic Of Science of United State of America* 95: 681 – 686.
- Kojima, K. 1995. *Control of Health Claim on Food in Japan*. A paper presented in the First International Conference on : East-West Perspective on Functional Foods. Singapore, September 26-27 dalam Astuti, Mary. 2005. *Makanan Fungsional, Konsep dan Peraturan*. Agritech Vol. 17 No 4 halaman 29-32.
- Komano, J. Sugiura M, and Takada K. 1998. Epstein-Barr Virus Contributes to The Malignant Phenotype and to Apoptosis Resistance in Burkitt's Lymphoma cell line Akata. *Journal of Virology*. 72(11):9150-9156.
- Kong, C.S., J.A. Kim., N. Yoon, and S.K. Kim. 2009. Induction of Apoptosis by Phloroglucinol Derivative from *Ecklonia cava* in MCF-7 Human Breast Cancer Cells. *Food and Chemical Toxicology* 47 (7); 1653 – 1658.
- Kresno, S.B. 2001. *Imunologi: Diagnosis dan prosedur laboratorium*. Edisi 4. Jakarta. Penerbit Fakultas Kedokteran Universitas Indonesia.
- Kristantini, Heni, P. 2010. Pemanfaatan Plasma Nutfah Beras Hitam local Yogyakarta sebagai bahan Pangan Fungsional, in: *Prosiding Seminar Nasional Hasil Penelitian Padi 2009*, Balai Besar Penelitian Tanaman Padi, p. 1271, Sukamandi.
- Kristantini. Taryono, Basunanda, P., Murti, R.M. 2014. Keragaman Genetik Kultivar Padi Beras Hitam Lokal Berdasarkan Penanda Mikrosatelit. *Jurnal Agrobien* 10(2) : 69-76.
- Kumar, A. S., Wang, F. S., dan Chang, T. Y. (2010). "Poly (BCB)/Au Nanoparticles Hybrid Film Modified Electrode: Preparation, Characterization and its Application as a Non-Enzymatic Sensors", *Thin Solid Films*, 518, 5832-5838.

- Lao, V. V. and Grady, W. M. 2011. Epigenetics and Colorectal Cancer. *Nature Reviews Gastroenterology and Hepatology* 8 : 686-700.
- Lavrik, I. N. Mock, T. Golks, A. Hoffman, J. C. Baumann, S. and Krammer, P. H. 2008. CD95 stimulation results in the formation of a novel death effect domain protein containing complex. *J Biol Chem* 283. 26401-26408.
- Leardkamolkarn, V., Thongthep, W., Suttiarporn, P., Kongkachuichai, R., Wongpornchai, S., and Wanavijitr, A. 2011. Chemopreventive Properties of The Bran Extracted from A Newly-developed Thai Rice: The Riceberry. *Food Chemistry* 125 : 978-985.
- Lee H. J., Oh, S. K., Choi, H. C., Kim, S. U. 1988. Identification of Anthocyanins from Pigmented Rice Seed. *Agricultural Chemistry Biotechnology* 41 : 257265.
- Lee, Jin Hwan. 2010. Identification and Quantification of Anthocyanins from the Grains of Black Rice (*Oryza sativa* L.) Varieties. *Food Science and Biotechnology* 19 (2) : 391 - 397.
- Leverero, M., Laurenzi, V. De., Constanzo, A., Gong, J., Wang, J.Y., and Melino, G. 2000. The p53/p63/p73 Family of Transcription Factors: Overlapping and Distinct Function. *Journal of Cell Science* 113 : 1661 - 1670.
- Lisdawati, V. 2007. Isolasi dan Elusidasi Struktur Senyawa Lignan dan Asam Lemak dari Ekstrak Daging Buah Phaleria Macrocarp. *Buletin Penelitian Kesehatan* 35 (3): 115-124.
- Lopez-Varela, S., Gonzalez-Gross, M., and Marcos, A. 2002. Functional Foods and The Immune System : A Review. *European Journal of Clinical Nutrition* 56 (3) : S29-S33.
- Maliya A. 2004. Perubahan Sel Menjadi Kanker Dilihat dari Sudut Pandang Biologi Molekuler. *Infokes* 8 (1): 1-7.
- Mamik, W.A. 2000. *Kelangsungan Hidup Kanker Leher Rahim*. Fakultas Kedokteran Universitas Airlangga, Surabaya.
- Mangoendidjojo, W. 2003. *Dasar-dasar pemuliaan tanaman*. Yogyakarta. Kanisius.
- Markham, R. K. 1998. *Cara Mengidentifikasi Flavonoid*. Bandung; ITB.
- Markowitz, S. D. and Bertagnolli, M. M. 2009. Molecular Basis of Colorectal Cancer. *The New England Journal of Medicine* 361 (25) : 2449 – 2460.
- Matsuba, Y., N. Sasaki, M, Tera, M. Okamura, Y. Abe, E. Okamoto, H. Nakamura, H. Funabashi, M. Takatsu, M. Saito, H. Matsuok, K. Nagasawa, and Y. Ozek, 2010, *A Novel Glucosylation Reaction on Anthocyanins Catalyzed by Acyl-Glucose-Dependent lucosyltransferase in the Petals of Carnation and Delphinium*.
- Mc donald, F., Ford C.H.J., 1997. *Molecular Biology of Cancer*. Bio Scientific Publisher, Oxford, United Kingdom.
- Mc laughlin. 2008. Paw-paw and Cancer Annonaceous Acetogenin from Discovery to Comercial Products, Department of Medicinal Chemistry and Molecular Pharmacology, School of Pharmacy and Pharmaceutical Sciences, *Purdue University*, 71(7):1311-1321

- Meiyanto, E., dan Septisetyani, E.P. 2005. CCRC-Fakultas Farmasi Universitas Gadjah Mada Yogyakarta: Efek Antiproliferasif dan Apoptosis Fraksi Fenolik Ekstrak Etanolik Daun *Gynura procumbens* (Lour.) Merr. Terhadap Sel HeLa. *Majalah: Artocarpus* (5) 2: 74-80.
- Meiyanto, E., Sismindari, Candra, L. dan Moordiani. 2003. Efek Antiproliferatif ekstrak etanol daun dan batang tanaman cangkring (*Erythrina fusca* Lour) terhadap sel HeLa. *Majalah Farmasi Indonesia* 14 (3): 124-131.
- Meiyanto, E., Supardjan, Da'I, M., dan Agustina D. 2006. Efek Antiproliferatif Pentagamavunon-0 terhadap Sel Kanker Payudara T47D. *Jurnal Kedokteran Yarsi* 14 (1): 011-015.
- Meyer, B. N., Ferrigni, Putnam, Jacobsen, Nichols, and McLaughlin. 1982. Brine Shrimp: A Convenient General Bioassay for Active Plant Constituents. *Planta Medica* (45): 31-34.
- Middleton, E. Jr., Kandaswami, C. 1993. The Impact of Plant Flavonoids on Mammalian Biology: Implications for Immunity, Inflammation and Cancer. in: Harborne, J. B. *The Flavonoids: Advances in Research since 1986*. Chapman and Hall. London.
- Minotti, G., Menna, P., Salvatorelli, E., Cairo, G., and Gianni, L. 2004. Anthracyclins: Molecular Advances and Pharmacologic Developments in Antitumor Activity and Cardiotoxicity. *Pharmacol Rev.*, 56:185-228.
- Mohanlal S, Parvathy R, Shalini V, Mohanan R, Helen A, Jayalekshmy A. Chemical indices, antioxidant activity and anti-inflammatory effect of extracts of the medicinal rice "njavara" and staple varieties: a comparative study. *J. Food Biochem.* 2012;37:369-380.
- Mueller, H., Kassack, M. U., Wiese, M. 2004. Comparison of the Usefulness of the MTT, ATP, and Calcein Assays to Predict the Potency of Cytotoxic Agents in Various Human Cancer Cell Lines. *Journal of Biomolecular Screening* 9 (6) : 506 – 515.
- Mursyidi, A. 1985. *Statistika Farmasi dan Biologi*. Jakarta: Ghalia.
- Nafrialdi, G.S. 1995. *Farmakologi dan Terapi Edisi IV*. Fakultas Kedokteran Universitas Indonesia, Jakarta.
- Naim, R. 2006. Penyakit yang Berhubungan dengan Penghambatan Apoptosis. *Cermin Dunia Kedokteran*. 153:36-38. [http://www.kalbe.co.id/files/cdk/files/153\\_16PenyakitPenghambatanApoptosis.pdf/153\\_16PenyakitPenghambatanApoptosis.html](http://www.kalbe.co.id/files/cdk/files/153_16PenyakitPenghambatanApoptosis.pdf/153_16PenyakitPenghambatanApoptosis.html) .Diakses 18 Maret 2016.
- Nakamura, H. Funabashi, M. Takatsu, M. Saito, H. Matsuo, K. Nagasawa and Y. Ozek. 2010. A Novel Glucosylation Reaction on Anthocyanins Catalyzed by Acyl-Glucose-Dependent Lucosyltransferase in The Petals of Carnation and Delphinidin. Japan.
- National Cancer Institute. 2009. What are BRCA1 and BRCA2. <http://www.cancer.gov/cancertopics/factsheet/Risk/BRCA> . Diakses 17 Maret 2016.
- Nishida, K., Yamaguchi, O., Otsu, K. 2008. Crosstalk between Autophagy and Apoptosis in Heart Disease. *Circulation Research* 103 : 343-351.
- Noguchi, P., Wallace, R., Johnson, J., Earley, E. M., O'Brien, S., Ferrone, S., Pellegrino, M. A , Milstien, J., Needy, C., Browne, W., Petricciani, J. 1979.

- Characterization of WiDr: A Human Colon Carcinoma Cell Line. *In Vitro* 15 (6) : 401-408.
- Nursid, M., Wikanta, T., Fajarningsih, N.D., dan Marraskuranto, E. 2006. Aktifitas Sitotoksik Induksi Apoptosis dan Ekspresi Gen p53 Fraksi Metanol Spore *Petrosia of nigricans* Terhadap Sel Tumor Hela. *Jurnal Pascapanan dan Bioteknologi dan Perikanan* 1 (2): 1-6.
- Nurulita, N. A., Meiyanto, E., Sugiyanto, Matsuda, E., Kawaichi, M. 2011. The Ethyl Acetate Fraction of *Gynura procumbens* Sensitizes WiDr ColonCancer Cell Line against 5-Fluorouracil but Shows Antagonism with Cisplatin. *International Journal of Phytomedicine* 3 : 392-405.
- Oemiati, R., Rahajeng, E., Kritanto, A.Y. 2011. Prevalensi Tumor dan Beberapa Faktor Yang Mempengaruhi Di Indonesia . *Bul.Penelit.Kesehatan*, Vol. 39. No 34 ; 190 – 204.
- Orwa *et al.* 2009. *Illicium verum hook f.* Agroforestry Database 4.0.[http://www.worldagroforestry.org/treedb2/AFTPDFS/Illicium\\_verum.pdf](http://www.worldagroforestry.org/treedb2/AFTPDFS/Illicium_verum.pdf) . Diakses 18 Maret 2016.
- Palozza, P., Serini, S., Maggiano, N., Tringali, G., Navarra, P., Ranelletti, F.O. and Calviello, G. 2005. -Carotene Downregulates the Steady-State and Heregulin-a-Induced COX-2 Pathways in Colon Cancer Cells. *Journal of Nutrition* 135 : 129 - 136.
- Pan, M., Chen, W., Lin-Shiau, S., Ho, C., Lin, J. 2002. Tangeretin Induces Cell Cycle G Arrest through Inhibiting Cyclin Dependent Kinase 2 and 4 Activities as well as Elevating Cdk Inhibitors p21 and p27 in Human Colorectal Carcinoma Cells. *Carcinogenesis* 23 (10) : 1677-1684.
- Pan, M-H. and Ho, C-T. 2008. Chemopreventive Effects of Natural Dietary Compounds on Cancer Development. *Chemical Society Reviews* 37 : 2558 –2574.
- Park, Y.S. Kim, S. J. Chang, H.I. 2008. Isolation of ANthocyanin from Black Rice cv Heungjinjubyeu and Scrining of its Antioxidant Activuities. *Journal of Microbiology Biotechnology*. 36 (1) : 55-60.
- Parkin D.M., Bray, F., Ferlay, J., and Pisani, P. 2005. Global cancer statistics. *CA: A Cancer Journal for Clinicians* 55 (2): 74-108.
- Pebriana RB, Wardhani BWK, Widiyanti E, Wijayanti NLS, Wijayant TR, Riyanto S, & Meiyanto E. 2008. Pengaruh ekstrak metanolik daun kenikir (*Cosmoscaudatus* Kunth) terhadap pemacuan apoptosis sel kanker payudara. *Pharmacon*9 (1): 21-26.
- Pecsok, S. and McWilliam, C. 1976. *Modern Methods of Chemical Analysis*. Second Edition. New York : John Willey and Sons.
- Pereira-caro, G.S., Watanabe, A., Crozier, T., Fujimura, T., Yokota, H., Ashihara. 2013. Phytochemical profile of Japanese Black purple rice . *Journal of Food chemistry*. 2821-2827.
- Perera, P., Ringbom, T., Huss, U., Vasage, M., dan Bohlin, L. 2001. *Search Natural Product Which Affect Cox-2 in Tringali, Bioactive Coumpounds From Natural Sourse ; Isolation, Characterisation and Biological Properties*. Taylor and Francis, Lomdon, 433-465.

- Phetpornpaisan, P., P. Tippayawat., M. Jay., K. Sutthahut. 2014. A local thai c ultivar glutinous black rice bran : A sOurce of Functional Coumpounds in immunomodulator, Cell Viability and Collagren synteis, and matrix metalloproteinase-2 and -9 inhibition. *Journal of Functional Food*. 650-661
- Pratiwi, R., Purwestri, Y. A., Tunjung, W. A. S. 2014. Efek Diet Nasi dari Padi (*Oryza sativa* L.) „Cempo Ireng“, „Cempo Abang“, dan “IR 64” terhadap Profil Lipid Serum Darah Tikus Putih (*Rattus norvegicus* Berkenhout, 1769) Hiperlipidemia. *Prosiding Annual Scientific Meeting Nutrigenomik* : 12-18.
- Puspitasari, E. dan Ulfa, E.U. 2009. Uji Sitotoksisitas Ekstrak Metanol Buah Buni (*Antidesma bunius* (L) Spreng) terhadap Sel Hela. *Jurnal Ilmu Dasar* 10 (2): 181-185.
- Putri, D. 2015. Ekstraksi Antosianin Beras Hitam (*Oryza sativa* L.) Dengan Berbagai Pelarut Dan Stabilitasnya Terhadap Suhu Tinggi. *Tesis*. Fakultas Biologi. Universitas Gadjah Mada.
- Rachmani, E.P.N., Suhesti, T.S., Widiastuti, R., and Aditiyono. 2012. The Breast of Anticancer from Leaf Extract of *Annona muricata* Againts Cell Line in T47D. *International Journal of Applied Science and Technology* 2 (1): 157-164.
- Rahbari, R., Tom, S., Modes,V., Pam, C., Catriona, M., and Richard, M. 2009. A Novel L1 Retrotransposon Marker for Hela Cell Line Identification. *Biotechniques* 46 (4): 277-284.
- Reed, J.C. 1997. Bcl2 Family Proteins: Regulators of Apoptosis and Chemoresistance In Hematologic Malignancies. *Seminars in Hematology* 34: 9-19.
- Reksoatmodjo, S.M.I. 1993. *Biologi Sel*. Departemen Pendidikan dan Kebudayaan Dierktorat Jendral pendidikan Proyek Pembinaan Tenaga Kependidikan Tinggi, Yogyakarta.
- Ren, W., Qiao, Z., Wang, H., Zhu, L., Zhang, L., 2003, Flavonoids: Promising Anticancer Agents, *Medicinal Research Reviews*, 23 (4), 519-534.
- Rieser, M. J., Gu, Z.-M., Fang, X.-P., Zeng, L., Wood, K. V., and McLaughlin, J. L. 1996. Five Novel Mono-Tetrahydrofuran Ring *Acetogenins* from The Seeds Of *Annona muricata*. *Journal of Natural Products* 59: 100-108.
- Riyasa, K.T. 2001. *Hubungan Tingkat Depresi pada Penderita Kanker Mammae yang Menjalani Pengobatan dengan Operasi dan Kombinasi (Operasi dan Radioterapi)*. Ganesha Digital Library
- Robinson, N.J. and Turner, J.S. 1995. Cyanobacterial Metallothioneins: Biochemistry and Molecular Genetics. *Journal of Industrial Microbiology* 14 (2): 119-25.
- Roezin, A.1997. Food and social background of Nasopharyngeal cancer patient in Jakarta. *Medical Journal Indonesia*: 6(4).249-52
- Rossaria, N. 2007. *Kajian Antiproliferatif Ekstraksi Daun Benalu Duku (Loranthaceae dendrophthoe species) Terhadap Sel Meiloma Secara In Vitro*. FKH Universitas Airlangga, Surabaya.

- Sa'adah, I. R., Supriyatna, dan Subejo. 2013. Keragaman Warna Gabah dan Warna Beras Varietas Lokal Padi Beras Hitam yang Dibudidayakan oleh Petani Kabupaten Sleman, Bantul dan Magelang. *Vegetalika* Vol.2 No.3 ; 13-20.
- Sarker, S. D., Latif, Z., Gray, A. I. 2006. *Natural Products Isolation Second Edition*. Humana Press Inc, New Jersey.
- Sastomidjojo, S. 1997. *Obat Asli Indonesia*. Pustaka Rakyat, Jakarta.
- Saunders, 2007. *Dorland's Medical Dictionary for Health Consumers*. Elsevier, Philadelphia.
- Schantz, M. D., and E. Richling. 2010 High performance liquid chromatography analysis of anthocyanins in bilberries (*Vacciniummyrtillus* L.), blueberries (*Vacciniumcorymbosum* L.), and corresponding juices. *J Food Sci*. 2012 Apr; 77(4).
- Seeram, N.P., Zhang, Y., Nair, M.G. 2003. Inhibition of human cancer cells and cyclooxygenase enzymes by anthocyanidins and catechins. *Nutr. Cancer* 46 : 101-106.
- Setiawati, A., Septisetyani, E P., Wijayanti, T R., dan Rokhman, M R. 2007. Sambung Nyawa (*Gynura procumbens* (Lour.) Merr.) Sebagai Agen Kemopreventif. *Cancer Chemoprevention Research Center*. Fakultas Farmasi Universitas Gadjah Mada.
- Setyaningrum, E. N. 2010. Efektivitas Penggunaan Jenis Asam dalam Proses Ekstraksi Pigmen Antosianin Kulit Manggis (*Garcinia mangostana* L.) dengan Penambahan Aseton 60%. *Skripsi*. Program Studi Teknologi Hasil Pertanian, Fakultas Pertanian Universitas Sebelas Maret.
- Sharma, G., Tyagi, A.K., Singh, R.P., Chan, D.C.F., dan Agarwal, R., 2004. Synergistic anti-cancer effects of grape seed extract and conventional cytotoxic agent doxorubicin against human breast carcinoma cells. *Breast Cancer Research and Treatment*, **85**: 1–12.
- Siegel, rebecca dan Naishadham, D., 2013. Cancer statistic. *Cancer Journal for Clinica*, 63: 11–30.
- Silalahi, J. 2006. Antioksidan Dalam Diet dan Karsinogenesis. *Cermin Dunia Kedokteran* 153: 39-42.
- Silitonga, Tiur Sudiaty. 2004. Pengelolaan dan Pemanfaatan Plasma Nutfah Padi di Indonesia. *Buletin Plasma Nutfah* 10 (2) : 56 – 71.
- Sugimoto, M., M. Koike, N. Hiyana, and N. Nagao. 2003. Genetic, morphological and virulence characterization of the entomopathogenic fungus *Verticillium lecanii*. *J Invertebr Pathol* 82(3):176-187.
- Sugiyanto, B., Sudarto, Edy, M., dan Agung, E. N. 2003. 'Aktivitas Antikarsinogenik Senyawa Yang Berasal Dari Tumbuhan'. *Majalah Farmasi Indonesia*. 14(3):132–141
- Suliartini, N.W.S., G.R. Sadimantara, T. Wijayanto dan Muhidin. 2011. Pengujian Kadar Antosianin Padi Gogo Beras Merah Hasil Koleksi Plasma Nutfah Sulawesi Tenggara. *Jurnal Ilmiah Crop Agr*. Vol.: 4, No.2.
- Suttiarporn, P., Chumpolsri, W., Mahatheeranont, S., Luangkamin, S., Teepsawang, S., Leardkamolkarn, V. 2015. Structures of Phytosterols and Triterpenoids with Potential Anti-Cancer Activity in Bran of Black NonGlutinou Rice. *Nutrients* 7 : 1672-1687.

- Takashima, A., Ohtomo, M., Kikuchi, T., Iwashita, J., Abe, T., Hata, K. 2013. Differentiation- and Apoptosis-inducing Activities of Rice Bran Extracts in a Human Colon Cancer Cell Line. *Journal of Food Science and Technology* 50 (3) : 595 – 599.
- Taketo M.M. 1998. Cyclooxygenase-2 inhibitors in tumorigenesis (part II). *J Natl Cancer Inst*;90:1609-620.
- Tambunan, U. S. F., Parikesit, A. A., Tochary T. A., dan Sugiono D. 2007. Studi *In Silico* Modifikasi Pos Translasi Disain Vaksin *Chimeric* Berbasis Virus *Like Particles Human Papillomavirus* dengan *Kapsid Virion L1*. *Makara Sains* 11 (2): 56-62.
- Tan, B. L., Norhaizan, M. E., Suhaniza, H. J., Lai, C. C., Norazalina, S. and Roselina, K. 2013. Antioxidant Properties and Antiproliferative Effect of Brewers' Rice Extract (*Temukut*) on Selected Cancer Cell Lines. *International Food Research Journal* 20 (5) : 2117-2124.
- Tanaka, J., Nakanishi, T., Ogawa, K., Tsuruma, K., Shimazawa, M. 2011. Purple Rice Extract and Anthocyanidins of The Constituents Protect Against Lightinduced Retinal Damage In Vitro and In Vivo. *Journal of Agricultural and Food Chemistry* 59 : 528–536.
- Tanaka, Y., Sasaki, N. and Ohmiya, A. 2008. Biosynthesis of Plant Pigments : Anthocyanins, Betalains and Carotenoids. *Plant Journal* 54 : 733–749.
- Taylor J. M., Chang J. 2003. Susceptibility of human hepatitis delta virus RNAs to small interfering RNA action. *Journal of Virology* 77, 9728-9731.
- Tiwari, P., Kumar, B., Kaur, M., Kaur, G., Kaur, H. 2011. Phytochemical screening and Extraction: A Review. *Internationale Pharmaceutica Scientia* 1 (1) : 98 – 106.
- Tjindarbumi D & Mangunkusumo R. 2002. Cancer in Indonesia, Present and Future, *Japanese Journal of Clinical Oncology* 32:S17-S2.
- Tjitrosoepomo, G. 1991. *Taksonomi Tumbuhan*. Yogyakarta: UGM Press
- Tunjung, W. A. S., Cinatl jr, J., Michaelis, M., Smales, C. M. 2015. Anti-Cancer Effect of Kaffir Lime (*Citrus hystrix* DC) Leaf Extract in Cervical Cancer and Neuroblastoma Cell Lines. *Procedia Chemistry* 14 : 465 – 468.
- Tokarska-Schlattner M., Schlattner, U., Wallimann, T. 2006. Mitochondrial creatine kinase in human health and disease. 2006 Feb;1762(2):164-80. Review. *Biochim Biophys Acta*.
- Tyagi, A.K., Agarwal, C., Chan, D.C.F., dan Agarwal, R., 2004. Synergistic anticancer effect of salibinin with conventional cytotoxic agents doxorubicin, cisplatin, and carboplatin against human breast carcinoma MCF-7 and MDA-MB468 cells. *Oncologist Report*, 11: 493–499.
- Ulfah, M. 2010. Flowcytometry untuk evaluasi aktivitas obat antiplasmodial pada gametosit *Plasmodium falciparum*. *Malaria journal* 9:49.
- Vermes, I., Haanen, C. and Reutelingsperger, C. 2000. Flow Cytometry of Apoptotic Cell Death. *Journal of Immunological Methods* 243 : 167 – 190.
- Vermes, I., Haanen, C., Steffens-Nakken, H., Reutelingsperger, C. 1995. A Novel Assay for Apoptosis Flow Cytometric Detection of Phosphatidylserine Expression on Early Apoptotic Cells using Fluorescein Labelled Annexin V. *Journal of Immunological Methods* 184 : 39-51.

- Waechter, A.I., Hocquemiller, R., Laurens, A., and Cavé, A. 1997. Glaucafilin, an acetogenin from *Annona glauca*. *Phytochemistry* 44; 1537-1540.
- Wagner, H. and Bladt, S. 1996. *Plant Drugs Analysis : A Thin Layer Chromatography Atlas 2nd Edition*. Springer, Germany.
- Wahyuningsih, Mae SH, Mubarika S, Gandjar IG & Wahyuono S. 2003. Pencarian Senyawa Antikanker Dari Bahan Alam. *Majalah Obat Tradisional* 8 : 1
- Wardani, R. K., 2010. *Perbandingan Efek Hipoglikemik Bekatul Beras Hitam Dengan Metformin Pada Mencit Balb/c Yang Diinduksi Streptozotocin*. SKRIPSI. Fakultas Kedokteran Universitas Sebelas Maret Surakarta.
- Waterhouse, J. and A. Svendsen, 1998. *Strategic Performance Monitoring and Management: Using Non Financial Measures to Improve Corporate Governance*, Quebec: The Canadian Institute of Chartered Accountant.
- Watson, J. D., J. Tooze dan D.T. Kurtz. 1988. *DNA Rekombinan Suatu Pelajaran Singkat*. Alih bahasa Wisnu Gunarso. Penerbit Airlangga
- Wei, Y., Fan, T., and Yu, M. 2008. Inhibitor of Apoptosis Proteins and Apoptosis. *Acta Biochimica et Biophysica Sinica* 40 (4): 278-288.
- Wickenden, J.A., M.C.H. Clarke, A.G. Rossi, I. Rahman, S.P. Faux, K. Donaldson and W. MacNee, 2003. Cigarette smoke prevents apoptosis through inhibition of caspase activation and induces necrosis. *Am. J. Respir. Mol. Biol.*, 29: 562-570.
- Xia, M., Ling, W. H., Ma, J., Kitts, D. D., Zawistowski, J. 2003. Supplementation of Diets with the Black Rice Pigment Fraction Attenuates Atherosclerotic Plaque Formation in Apolipoprotein E Deficient Mice. *The Journal of Nutrition* : 744 – 751.
- Xia, X., Ma, W. L. J., Xia, M., Hou, M., Wang, Q. and Zhu, H. 2006. An Anthocyanin-rich Extract from Black Rice Enhance Atherosclerotic Plaque Stabilization in Apolipoprotein Edeficient Mice. *Journal of Nutrition* 136 : 2220-2226.
- Yang, H., Zhang N., Zeng Q., Yu Q., Ke S., and Li. 2010. HPLC Method for the Simultaneous Determination of Ten Annonaceous Acetogenins after Supercritical Fluid CO<sub>2</sub> Extraction. *International Journal of Biomedical Science* 6 (3): 202-207.
- Yeh, Y.C., Lai, H.C., Ting, C.T., Lee, W.L., Wang, L.C., Wang, K.Y. 2007. Protection by doxycycline against doxorubicin-induced oxidative stress and apoptosis in mouse testes. *Biochem Pharmacol* 74: 969–980.
- Yin, N., Ma, W., Pei, J., Ouyang, Q., Tang, C. and Lai, L. 2012. *Synergistic and Antagonistic Drug Combinations depend on Network Topology*. <http://www.plosone.org>. Diakses tanggal 1 April 2016.
- Zhang, M. H., Man, H. T., Zhao, X. D., Dong, N., Ma, S. L. 2013. Estrogen Receptor-Positive Breast Cancer Molecular Signatures and Therapeutic Potentials (Review). *Biomedical Reports* 2 : 41 – 52.
- Zhang, M. W., Zhang, R. F., Zhang, F. X., Liu, R. H. 2010. Phenolic Profiles and Antioxidant Activity of Black Rice Bran of Different Commercially Available Varieties. *Journal of Agricultural and Food Chemistry* 58 : 7580 – 7587.