# DAFTAR PUSTAKA

Aditya, R.H., Wiwiek S.W., Paniman A.M.2015. Ketahanan Lapangan Lima Genotipe Padi terhadap Penyakit Hawar Daun Bakteri.*Jurnal Fitopatologi Indonesia* 11(5): 160–166.

Antolovich M., Prenzler P., Robards K. and Ryan D..2000. Sample preparation in the determination of phenolic compounds in fruits. *Analyst* 125: 989–1009.

Aubert, S., Elisabeth G., Richard B., and Roland D.1994. Multiple Effects of Glycerol on Plant Cell Metabolism. The Journal of Biological Chemistry. Vol. 269 No.34:26. 21420-21427.

Beckman, C.H. 2000.Phenolic-storing cells: Keys to programmed cell death and periderm formation in wilt disease resistance and in general defence responses in plants. *Physiol. Mol. Plant Pathol.* 57: 101–110.

Blainski, A., Gisely Cristiny L., and Palazzo de Mello, J.C.2013. Application and Analysis of the Folin Ciocalteu Method for the Determination of the Total Phenolic Content from *Limonium Brasiliense* L. *Molecules*,18: 6852-6865.

Chanda, B., Srivathsa C. V., Saurabh K., Duroy A. N., Bruce D., Lisa V., Aardra K., and Pradeep K.2008. Glycerol-3-Phosphate Levels Are Associated with Basal Resistance to the Hemibiotrophic Fungus *Colletotrichum higginsianum* in Arabidopsis. *Plant Physiology* 147: 2017–2029.

Chaudhary, R.C. 2003. Speciality rices of the world : Effect of WTIO and IPR on its production trend and marketing. *J. Food Agric. Env.* 1 (2): 34 -41.

Chen, P. N., Kuo, W. H., Chiang, C. L., Chiou, H. L., Hsieh, Y. S., and Chu, S. C. 2006. Black rice anthocyanins inhibit cancer cells invasion via repressions of MMPs and μ-PA expression. *Chemico-Biological Interactions*, 163(3), 218-229.

Choi, S. P., Kang, M. Y., Koh, H. J., Nam, S. H., and Friedman, M. 2007. Antiallergic activities of pigmented rice bran extracts in cell assays. *Journal of Food Science*, 72(9), S719-S726.

Chung, H.S, and Woo W.S. 2001.A quinolone alkaloid with antioxidant activity from the aleurone layer of anthocyanin-pigmented rice. *J. Nat. Prod*. 64: 1579-1580.

Cohen, M.F., Sakihama, Y., Yamasaki, H.2001.Roles of Plant Flavanoids in Interactions with Microbes: rom protection against pathogens to mediation of mutualism.*Recent Res. Devel. Plant Physiol*. 2: 157-173.

Cotelle, N., Bernier, J.L., Catteau, J.P., Pommery, J., Wallet, J.C., and Gaydou, E.M. 1996.Antioxidant properties of hydroxy-flavones. Free Radic. *Biol. Med.* 20, 35–43

Dahima, V., Sharma, S.S., Khokar, M.K., and Hooda, K.S. 2014.Post-infectional biochemical changes in maize leaves affected by banded leaf and sheath blight disease. Indian Phytopath. 67 (4) : 370-373.

Dettmer, K., John, M., and Liu, M.T. 2010, Comparison of serum versus plasma collection in gas chromatography-mass spectrometry based metabolomics. *Electrophoresis.* 31(14): 65-73.

Djatmiko AH, and Fatichin. 2009. Ketahanan dua puluh satu varietas padi terhadap penyakit hawar daun bakteri. *J HPT Tropika.* 9(2):168–173.

Djatmiko, H.A., Budi, P and Nur Prihatiningsih. 2011. Penentuan Pototipe dan Keragaman Genetik pada Tanman Padi di wilayah karesidenan Banyumas. *Jurnal HPT Tropika* 11(1): 35-46.

Dunn, W.B., Bailey, N.J.C., and Johnson, H.E., 2005. Measuring the metabolome: current analytical technologies. *Analyst*. 130: 606-625.

Ellis, D.I., Dunn, W.B., Griffin, J.L., Allwood, J.W., and Goodacre, R., 2007, Metabolic Fingerprinting as A Diagnostic Tool, *Pharmacogenomic Review,* 8(9), 1243-1266.

EPPO. 2007. *Xanthomonas oryzae*. European and Mediterranean Plant-Protection Organization. *Bulletin OEPP/EPPO*. 37: 543-553.

Essmann, J., Bones, P., Weis, E., and Scharte, J.,2008. Article Addendum Leaf Carbohydrate Metabolism During Defense Intracellular Sucrose-Cleaving Enzymes Do Not Compensate Repression Of Cell Wall Invertase. *Plant Signaling & Behavior*. 3:10, 885-887

Fancy, S.A., dan Rumpel, K., 2008. GC-MS Based Metabolomics Methods in Pharmacology and Toxicology: Biomarker Methods in Drug Discovery and Development. *Humana Press*. 317–340.

Fernie, A.R., Trethewey, R.N., Krotzky A.J., and Willmitzer L.2004. Innovation Metabolite profiling: from diagnostics to systems biology. *Nat Rev Mol Cell Biol* 2004, 5:763-769.

Ferreyra, M.L.F., Sebastián P.R., and Paula, C. 2012. Flavonoids: biosynthesis, biological functions, and biotechnological applications.*Frontiers in plant science*. 3(222):1-15.

Fiehn O. 2002. Metabolomics–the link between genotypes and phenotypes. *PlantMol Biol;*48:155–71.

Fiehn, O. 2000. Identification of uncommon plant metabolites based on calculation of elemental compositions using gas chromatography and quadrupole mass spectrometry. *Anal Chem,*. 72(15): p. 3573-80.

Finkemeier, I., and Sweetlove, L.J.2009. The role of malate in plant homeostasis.*Biology Reports.* 1:47.

Foster-Hartnett, D., Danesh, D., Peñuela, S., Sharopova, N., Endre, G., Vandenbosch, K.A., Young, N.D., and Samac, D.A.2007. Molecular and cytological responses of *Medicago truncatula* to *Erysiphe pisi*. *Mol.PlantPathol*. 8, 307–319.

Gao, Q., Kachroo, A., and Pradeep K.2014. Review Paper: Chemical inducers of systemic immunity in plants.*Journal of Experimental Botany*. Pages 1-7.

Gates, S.C., and Sweeley, C.C.1978.Quantitative metabolic profiling based on gas chromatography. *Clin Chem,* 24(10): 63-73.

Gomez-Ariza, J., Campo, S., Rufat, M., Estopa, M., Messeguer, J., San Segundo, B., and Coca, M.2007. Sucrose-Mediated Priming of Plant Defense Responses and Broad-Spectrum Disease Resistance by Overexpression of the Maize Pathogenesis-Related PRms Protein in Rice Plants. *Molecular Plant-Microbe Interactions*. 20: 7, 832–842.

Haraguchi, H., Tanimoto, K., Tamura, Y., Mizutani, K., Kinoshita, T. 1998.Mode of antibacterial action of retrochalcones from Glycyrrhiza inflata. *Phytochemistry* 48:125–129.

Harborne JB. 1987. *Phytochemical Methods*. Diterjemahkan oleh Padmawinata K dan Soediro I, penerjemah. Bandung: Penerbit ITB.

Harper, A.D., and Bar-Peled, M. 2002.Biosynthesis of UDP-Xylose. Cloning and Characterization of a Novel Arabidopsis Gene Family, UXS, Encoding Soluble and Putative Membrane-Bound UDP-Glucuronic Acid Decarboxylase Isoforms. *Plant Physiology*. 130. 2188–2198.

Hiemori M., Koh, M., and Alyson E. M.2009. Influence of Cooking on Anthocyanins in Black Rice (*Oryza sativa* L. japonica var. SBR). *J. Agric. Food Chem*. 57: 1908–1914

Hifni, H.R. and M.K. Kardin. 1998. Pengelompokan isolat *Xanthomonas oryzae* pv. *oryzae* dengan menggunakan galur isogenik padi IRRI. *Hayati* 5: 66-72.

Huota, B., Yaoa, J., Montgomerya, B.L., and Hea, S.Y.2014. Review Article: Growth–Defense Tradeoffs in Plants: A Balancing Act to Optimize Fitness. *Molecular Plant.* 7, 1267–1287.

Ichikawa, H., Ichiyanagi, T., Xu, B., Yoshii, Y., Nakajima, M., and Konishi, T. 2001. Antioxidant activity of anthocyanin extract from purple black rice. *Journal of Medicinal Food*, 4(4), 211-218.

Ishaq, A., Abdul R., Muhammad Z., Anjum M., Ehsan U.2015. Response of rice (*Oryza sativa* L.) germplasm against *Xanthomonas oryzae* pv. *oryzae* (Xoo) under greenhouse conditions in Pakistan. *Journal of Biodiversity and Environmental Sciences (JBES)* 7(3): 59-65.

Jennings, D.B., Daub M.E., Pharr DM, Williamson, J.D.2002.Constitutive Expression Of A Celery Mannitol Dehydrogenase In Tobacco Enhances Resistance to The Mannitol-Secreting Fungal Pathogen Alternaria Alternata. *Plant J* 32: 41–49.

Jennings DB, Ehrenshaft, M., Pharr, D.M, Williamson, J.D.1998.Roles For Mannitol And Mannitol Dehydrogenase In Active Oxygen-Mediated Plant Defense. *Proc Natl Acad Sci USA* 95: 15129–15133.

John, B., Sulaiman, C.T, Satheesh G., and Reddy, V.R.K.2014. Total Phenolics And Flavonoids In Selected Medicinal Plants From Kerala. *International Journal of Pharmacy and Pharmaceutical Sciences*. 6(1).

Jun, H., Geun-Seoup, S., Eun-In, Y., Youn, Y., and Yong-Soo, K.2012.Antioxidant Activities and Phenolic Compound of Pigmented Rice Brain Extracts.*Journal of Food Science* 77(7): C759-C764.

Kangatharalingam, N., Pierce, M.L., Bayles, M.B., and Essenberg, M. 2002. Epidermal Anthocyanin Production As Indicator Of Bacterial Blight Resistance In Cotton. *Phys. Mol. Pathol*. 61, 189–195.

Kauffman, H., Reddy, A. P. K., Hsieh, S. P. V., and Marca, S. D. (1973). An improved technique for evaluation of resistance of rice varieties to *Xanthomonas oryzae*. *Plant Disease Reporter*, 57, 537–541.

Khaeruni, A., M. Taufik, Teguh W., and Eko A.J.2014. Perkembangan Penyakit Hawar Daun Bakteri pada Tiga Varietas Padi Sawah yang Diinokulasi pada Beberapa Fase Pertumbuhan. *Jurnal Fitopatologi Indonesia* 10 (4) :119–125.

Kopka, J., 2006. Current Challenges and Developments in GC–MS Based Metabolite Profiling Technology. *Journal of Biotechnology.* 124: 312–322.

Kristamtini1, Taryono, Panjisakti B., Rudi H.M., Supriyanta., Setyorini W., and Sutarno.2012. Morphological Of Genetic Relationships Among Rice Landraces From Yogyakarta And Surrounding Areas. *ARPN Journal of Agricultural and Biological Science*. 7(12): 982-989.

Kristamtini, Taryono, Basunanda, P., and Murti R.H.2014. Keragaman Genetik dan Korelasi Parameter Warna Beras dan Kandungan Antosianin Total Sebelas Kultivar Padi Beras Hitam Lokal. *Ilmu Pertanian* 17(1): 90 – 103.

Lang, J.M., J.P. Hamilton, M.G.Q. Diaz, M.A.V. Sluys, M.R.G. Burgos, C.M.V. Cruz, C.B. Buell, N.A. Tiserat, and J.E. Leach. 2010. Genomics-based diagnostic marker development for *Xanthomonas oryzae* pv. *oryzae* and *X. oryzae* pv. *oryzicola*. Plant Dis. 94: 311−319.

Lattanzio M.,, Veronica M. T. L., and Cardinali, A.2006. Role of phenolics in the resistance mechanisms of plants against fungal pathogens and insects.*Phytochemistry: Advances in Research,* pages: 23-67.

Lee, J.H.2010. Identification and Quantification of Anthocyanins from the Grains of Black Rice (*Oryza sativa* L.) Varieties. *Food Sci. Biotechnol*. 19 (1): 391-397.

Li,Y., Song, N., Zhao, C., Li, F., Geng, M., Wang, Y., Liu, W., Xie, C., and Sun, Q. 2016. Application of Glycerol for Induced Powdery Mildew Resistance in *Triticum aestivum* L.*Frontier in Physiology.*Vol.7:413 1-13.

Ma N.Y., Rahmat Z., and Lam S.S. 2013. A Review of the "Omics" Approach to Biomarkers of Oxidative Stress in Oryza sativa. *Int. J. Mol. Sci.*14: 7515-7541.

Madaan, R., Bansal, G., and Sharma, A.2011. Estimation of Total Phenols and Flavonoids in Extracts ofActaea spicata Roots and Antioxidant Activity Studies.Indian J.Parm Sci.73(6): 666-669.

Malik C.P. and Singh M.B.1980.Plant Enzymology and Histo-Enzymology: A Text Manual. Kalyani Publishers, New Delhi, page 286.

Mandal, M.K., Chandra-Shekara, A.C., Jeong, R.D., Yu, K., Zhu, S., Chanda, B., Navarre, D., Kachroo, A., and Kachroo, P.2012. Oleic aciddependent modulation of NITRIC OXIDE ASSOCIATED1 protein levels regulates nitric oxide-mediated defense signaling in Arabidopsis. *Plant Cell* 24:1654-1674.

Markham KR. 1988.Techniques of Flavonoid Identification. Academic Pr: London. diterjemahkan oleh Kosasih Padmawinata, 15, Penerbit ITB, Bandung.

McNair, H.M., Bonelli, E.J., 1988. *Dasar Kromatografi Gas*. Penerbit ITB.Bandung.

Meena, M., Prasad, V., Zehra, A., Gupta, V., and Upadhyay, R.S. 2015.Mannitol metabolism during pathogenic fungal–hos tinteraction sunder stresse dconditions. *Frontiers in Microbiology*.6:1019. 1-12.

Mew, T.W., Alvarez, A.M., Leach, J.E. and Swings, J. 1993 Focus on bacterial blight of rice. *Plant Dis*. 77: 5–12.

Mierziak, J., Kamil K., and Kulma, A. 2014. Review: Flavonoids as Important Molecules of Plant Interactions with the Environment. *Molecules* 19: 16240-16265.

Moing, A. 2000.Sugar Alcohols As Carbohydrate Reserves In Some Higher Plants. *Developments in Crop Science*. 26. 337–358.

Moghaddam, M.R.B., and Van den Ende, W. 2012. Review Paper: Sugars and plant innate immunity. *Journal of Experimental Botany*. Pages 1-10.

Mursyidi, A., 1989. Analisis Metabolite Sekunder. PAU Bioteknologi Universitas Gajah Mada, Yogyakarta, hal 1–7, 71–81.

Naoumkina, M.A., Zhao, Q., Gallego-Giraldo, L., Dai, X., Zhao, P.X., Dixon, R.A. 2010. Genome-wide analysis of phenylpropanoid defence pathways. *Mol. Plant Pathol.* 11, 829–846.

Narsai, R., Chuang, W., Chen, J., Jianli, W., Huixia, S., and Whelan, J.2013. Antagonistic, overlapping and distinct responses to biotic stress in rice (*Oryza sativa*) and interactions with abiotic stress. *BMC Genomics.* 14:93.

Neldawati, Ratnawulan and Gusnedi.2013. Analisis Nilai Absorbansi dalam Penentuan Kadar Flavonoid untuk Berbagai Jenis Daun Tanaman Obat. *Pillar Of Physics*, 2:76-83.

Niño-Liu, D.O., Pamela C. R.,And Adam J. B.2006. *Xanthomonas oryzae*: pathovars: model pathogens of a model crop. *Molecular Plant Pathology* 7(5): 303–324.

Obata, T. Steffi Schoenefeld, Ina Krahnert, Susan Bergmann, André Scheffel and Alisdair R. Fernie.2013.Gas-Chromatography Mass-Spectrometry (GC-MS) Based Metabolite Profiling Reveals Mannitol as a Major Storage Carbohydrate in the Coccolithophorid Alga Emiliania huxleyi. *Metabolites* 3, 168-184.

Obata, T.; Fernie, A.R. 2012.The use of metabolomics to dissect plant responses to abiotic stresses. *Cell. Mol. Life Sci*. 69, 3225–3243.

Pauly, M., and Keegstra, K.2016. Biosynthesis of the Plant Cell Wall Matrix Polysaccharide Xyloglucan. *Annual Review of Plant Biology*. 67: 235-259.

Pękal, A., and Pyrzynska, K.2014. Evaluation of Aluminium Complexation Reaction for Flavonoid Content Assay. *Food Anal. Methods.* 7:1776–1782.

Pieterse, C.M. J., Leon-Reyes, A., Van der Ent, S., and Van Wees, S.C.M.2009. Networking by small-molecule hormones in plant immunity. *Nature chemical Biology.* 5(5): 308-316.

Plaper, A., Golob, M., Hafner, I., Oblak, M., Solmajer, T., and Jerala, R.2003. Characterization of quercetin binding site on DNA gyrase. *Biochem. Biophys. Res. Commun.* 306, 530–536.

Qiu, Y., and Reed, D.2014. Gas Chromatography in Metabolomics Study. *Intech.* 4:83-101.

Reina-Pinto, J.J., and Yephremov, A.2009. Review: Surface lipids and plant defenses. *Plant Physiology and Biochemistry* Vol.47. 540–549.

Roitsch, Thomas.1999.Source-sink Regulation by Sugar and Stress.*Plant Biology* 2:198-206

Rojas, M.C., Kumar, M.S., Tzin, V., and Kiran, K.S.2014. Regulation of primary plant metabolism during plant-pathogen interactions and its contribution to plant defense.*Frontiers in Plants science.* Vol.5:17. 1-12.

Sa'adah, I.R., Supriyanta., and Subejo. 2013. Keragaman Warna Gabah Dan Warna Beras Varietas Lokal Padi Beras Hitam (*Oryza Sativa* L.) Yang Dibudidayakan Oleh Petani Kabupaten Sleman, Bantul, Dan Magelang. *Vegetalika* 2(3): 13-20

Sana , T.R., Steve F.,Gert W., Anjali K., Ki-hong J., and Pam C. R.2010. Metabolomic and Transcriptomic Analysis of The Rice Response to The Bacterial Blight Pathogen Xanthomonas oryzae pv. oryzae. *Metabolomics* 6:451–465.

Sastrohamidjojo, H., 2005. *Kromatografi*. Liberty, Yogyakarta.

Servili M. and Montedoro G. 2002. Contribution of phenolic compounds in virgin olive oil quality. *European Journal of Lipid Science and Technology* 104: 602–613.

Shen, Y., Jin, L., Xiao, P., Lu, Y., and Bao, J. 2009. Total phenolics, flavonoids, antioxidant capacity in rice grain and their relations to grain color, size and weight. *Journal of Cereal Science*, 49(1): 106-111.

Shim SI, Chung JW, Lee JM, Hwang KT, Sone J, Hong BS, Cho HY, and Jun WJ.2006. Hepatopotective effects of black rice on superoxide anion radicals in HepG2 Cells. *Food Sci. Biotechnol*.15: 993-996.

Sompong, R., Siebenhandl-Ehn, S., Linsberger-Martin, G., and Berghofer, E. 2011. Physicochemical and antioxidative properties of red and black rice varieties from Thailand, China and Sri Lanka. *Food Chemistry*, 124(1), 132-140.

Stintzing, F. C. and Carle, R. 2004.Functional properties of anthocyanidins and beatalins in plants, foods, and in human nutrition. *Trends in Food Sci. Technol* 15: 19–38.

Sudir, Yoga A.Y., dan Syahri.2013. Komposisi dan Sebaran Patotipe *Xanthomonas oryzae pv. oryzae* di Sentra Produksi Padi di Sumatera Selatan. *Penelitian Pertanian Tanaman Pangan* 32(2).

Sudir. 2011. Pengaruh varietas, populasi tanaman dan waktu pemberian pupuk N terhadap penyakit padi. *Prosiding Seminar Ilmiah Hasil Penelitian Padi Nasional 2010.* Balai Besar Penelitian Tanaman Padi: 393-604.

Sun,L.,Yang,D.L.,Kong,Y.,Chen,Y.,Li,X.Z.,Zeng,L.J.,.(2013).Sugar homeostasis mediated by cell wall invertase GRAIN IN COMPLETE FILLING 1 (GIF1) plays a role in pre-existing and induced defence in rice. *Mol.Plant. Pathol*. 15,161–173.

Suparyono, darmawan, A.,and hadi, M.N.2003. Komposisi Patotipe Patogen Hawar Daun Bakteri pada Tanaman Padi Stadium Tumbuh Berbeda. *Jurnal Penelitian Pertanian Tanman Pangan* 22 (1): 45-50.

Suparyono, kasdim, and Rudi, M.2004. Pathotype Profile of *Xanthomonas oryzae pv. Oryzae* Isolates from the Rice Ecosystem in Java. *Indonesian Journal of Agricultural Science* 5 (2):63-69.

Suparyono, Sudir, dan Suprihanto. 2003. Komposisi patotipe pathogen hawar daun bakteri pada tanaman padi stadium tumbuh berbeda. *J. Penel. Pert*. 22(1): 45-50.

Susanto and Sudir.2012. Ketahanan Genotipe Padi terhadap *Xanthomonas oryzae* pv. *oryzae* Patotipe III, IV, dan VIII. Penelitian Pertanian Tanaman Pangan 31(2):108-116.

Takshay K.P., and Williamson, J.D.2016. Mannitol in Plants, Fungi, and Plant–Fungal *Interactions.Trend in Plants Science*. 21 (6), 486–497.

Tasliah.2012. Gen Ketahanan Tanaman Padi Terhadap Bakteri Hawar Daun (*Xanthomonas oryzae* pv. *oryzae*). J .k eLtiathbaannagn Ppeardti. tVerohl.a d3a1p N .o... 3 September 2012: 103-112.

Tjitrosoepomo, G.1994.Taksonomi Tumbuhan (Spermatophyta).Gadjah Mada University Press.Yogyakarat.

Torregrosa, C., Cluzet, S., Fournier, J., Huguet, T., Gamas, P., Prospéri, J.-M., Esquerré-Tugayé, M.T., Dumas, B., and Jacquet, C.2004. Cytological, genetic, and molecular analysis to characterize compatible and incompatible interactions between *Medicago truncatula* and *Colletotrichum trifolii*. *Mol.Plant Microbe Interact*. 17: 909–920.

Triny S. Kadir, Y. Suryadi, Sudir, and M. Machmud. 2009. Penyakit bakteri padi dan cara pengendaliannya. Dalam Padi: Inovasi Teknologi Produksi: Buku 2, A. A. Daradjat et al. (Eds.), LIPI Press Jakarta: 499-530.

Tripathi, K.K., O.P.Govila., R. Warrier and V.Ahuja.2011.Biology of *Oryza sativa* L. (rice). Department of Biotechnology, Ministry af Sciences and Technology, Government of India. New Delhi.

Villas-Boâs, S.G., Mas,S., Akesson, M., Smedsgaars, J. and Nielsen, J. 2005. Mass Spectrofotometry in Metabolome Analysis, *Mass Spectrofotometry Review,* 24, 613-646.

Voegele, R.T., Hahn, M., Lohaus, G., Link, T., Heiser, I., and Mendgen, K.2005. Possible Roles forMannitol and Mannitol Dehydrogenase in the Biotrophic Plant Pathogen *Uromyces fabae*. *Plant* Physiology.137. 190–198.

Walters, D.R., Walker, R.L.,and Walker K.C. 2003.Lauric Acid Exhibits Antifungal Activity Against Plant Pathogenic Fungi.*Journal of Phytopathologi* 151: 4 228–230.

Wang, X.M.2004.Lipidsignaling. *Curr.Opin.PlantBiol*. 7, 329–336.

Weckwerth, W., Wenzel, K. and Fiehn, O. 2004. Process for the integrated extraction, identification and quantification of metabolites, proteins and RNA to reveal their co-regulation in biochemical networks. *Proteomics* 4, 78-83.

Weckwerth, W.2003.Metabolomics in Systems Biology.*Annu Rev Plant Biol*. 54: 669-689.

Welti, R., Shah, J., Li, W., Li, M., Chen, J., Burke, J.J.2007 .Plant Lipidomics: Discerning Biological Function By Profiling Plant Complex Lipids Using Mass Spectrometry. *Front.Biosci*. 12:2494–2506.

Wu, J.,Yu, H.,, Dai, H.,, Mei, W., Huang, X, Zhu, S., and Peng, M.2012. Metabolite profiles of rice cultivars containing bacterial blight-resistant genes are distinctive from susceptible rice. *Acta Biochim Biophys Sin.* Page 1-10.

Yaeno, T., Matsuda, O., and Iba, K..2004. Role Of Chloroplast Trienoic Fatty Acids In Plant Disease Defense Responses. *The Plant Journal* 40, 931–941

Yawadio, R., Tanimori, S., and Morita, N. 2007. Identification of phenolic compounds isolated from pigmented rices and their aldose reductase inhibitory activities. *Food Chemistry*, 101(4): 1616-1625.

Yuriah, S. Dwinita W.U., and Ida H.,2013.Uji Ketahanan Galur-Galur Harapan Padi Terhadap Penyakit Hawar Daun Bakteri (*Xanthomonas oryzae pv. oryzae*) ras III, IV, dan VIII. *Buletin Plasma Nutfah* 19 (2)

Zhang, M. W. Guo, B. J. and Peng, Z. M. 2005. Genetic effects on grain characteristics of indica black rice and their uses on indirect selections for some mineral element contents in grains. *Genet. Resour. Crop* 5: 1121–1128.