

## เอกสารอ้างอิง

- กอบเกียรติ แสงนิล. 2540. รายงานการวิจัย เรื่อง “ปริมาณรงควัตถุแอนโทไซยานิน และแอกติวิตีของเอนไซม์ phenylalanine amonia-lyase ในผัก ผลไม้ และดอกไม้บางชนิด ภายหลังการเก็บเกี่ยว”. ภาควิชาชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่.
- จรัญ จันทลักขณา. 2534. สถิติวิเคราะห์และวางแผนวิจัย. พิมพ์ครั้งที่ 6. บริษัทสำนักพิมพ์ไทยวัฒนาพานิชย์ จำกัด. กรุงเทพฯ ฯ.
- ทิวาพร ถนอมอนันตกุล. 2542. ภาคนิพนธ์วิทยาศาสตร์บัณฑิต เรื่อง “การปรับวิธีหา Total Antioxidant Capacity (TAC) เพื่อใช้กับเครื่องเทียบสีธรรมดา” คณะเทคนิคการแพทย์ มหาวิทยาลัยเชียงใหม่.
- นัยนา บุญทวีวัฒน์ และ เรวดี จงวัฒน์. 2545. น้ำมันรำข้าว ทางเลือกเพื่อสุขภาพของคนไทย . โอเคียนส์โตร์, กรุงเทพฯ.
- พรทิพย์ วิรัชวงศ์. 2549. วิทยวิทยาศาสตร์การแพทย์ เรื่อง “อนุมูลอิสระ (free radicals)/สารต้านอนุมูลอิสระ (antioxidants)”. [ระบบออนไลน์] แหล่งที่มา <http://www.gpo.or.th/rdi/html/index.html> (10 ตุลาคม 2549).
- พันทิพา พงษ์เพ็ชรจันทร์. 2541. สัมมนา พัฒนาอาหารสัตว์ : สารอาหารกับภูมิคุ้มกัน. ภาควิชาสัตวศาสตร์ คณะเกษตรศาสตร์ มหาวิทยาลัยเชียงใหม่.
- สมวงษ์ ตระกูลรุ่ง. 2547. “ข้าวโภชนาการเพื่อสุขภาพและการใช้ประโยชน์ในอุตสาหกรรม”. [ระบบออนไลน์] แหล่งที่มา <http://dnatec.kps.ku.ac.th/new-dnatec/download/rice.doc> (23 เมษายน 2547).
- สุทธิพันธ์ สารสมบัติ. 2543. อิมมูโนวิทยา. พิมพ์ครั้งที่ 4. บริษัท พีพีเอส ชายน์เทคนิคส์ จำกัด. กรุงเทพฯ.
- Ahmed, F., K. Platel, S.Vishwanatha, S. PuttarajI and K. Srinivasan. 2007. Improved shelf-life of rice bran by domestic heat processing and assessment of its dietary consumption in experimental rats. *J. Sci. Food Agric.* 87:60–67.
- Andreas, M. 1999. Antioxidant status, diet, nutrition and health. CRC Press LLC USA. 650 p.

- Anselmi, C., M. Centini, M. Andreassi, A. Buonocore, C. L. Rosa, R. M. Facino, A. Segal and F. Tsuno. 2004. Conformational analysis: a tool for the elucidation of the antioxidant properties of ferulic acid derivatives in membrane models. *J. Pharma. Biomed. Anal.* 35 : 1241–1249.
- AOAC. 1998. Official Method Analysis. 15<sup>th</sup> ed. Association of official Analytical Chemists, Washington, DC.
- Betty, K. 2000. Introducing stabilized rice bran. ALLYSON-KAS INC. California. [Online] Available. <http://www.bettykamen.com/stabilizedricebran.htm> (24 Jan 2007).
- Bhardwaj, K., R. Aruna and R. Ram. 2001. Identification, purification and characterization of a thermally stable lipase from rice Bran. *Plant Physiol.* 127(4): 1728–1738.
- Boyne, A.F. and G.L. Ellman. 1972. A methodology for analysis of tissue sulfhydryl components. *Anal. Biochem.* 46 (2) : 639-53.
- Bucci, R., A. D. Magri, A. L. Magri and F. Marini. 2003. Comparison of three spectrophotometric methods for the determination of  $\gamma$ -oryzanol in rice bran oil. *Anal Biochem.* 375 : 1254-1259.
- Buege, J.A. and S.D. Aust. 1978. Microsomal lipid peroxidation. *Methods Enzymol.* 52 : 302-305.
- Cadenas, E. and L. Packer. 1996. Handbook of antioxidants. New York. Marcel Dekker. 602 p.
- Chen, M. H. and C. J. Bergman. 2005. A rapid procedure for analysing rice bran tocopherol, tocotrienol and  $\gamma$ -oryzanol contents. *J. Food. Compos. Anal.* 18:319–331.
- Dalzell, S. A. and G. L. Kerven. 1998. A rapid method for the measurement of *Leucaena spp* proanthocyanidins by the proanthocyanidin (butanol/HCl) assay. *J. Sci. Food Agric.* 78:405–416.
- Dejian, H., B. Ou., M. Hampsch-Woodill., J. A. Flanagan and E. K. Deemer. 2002. Development and validation of oxygen radical absorbance capacity assay for lipophilic antioxidants using randomly methylated B-cyclodextrin as the solubility enhancer. *J. Agri. Food Chem.* 50: 1815-1821.
- Frei, M. and K. Becker. 2005. Fatty acids and all-trans- $\beta$ -carotene are correlated in differently colored rice landraces. *J. Sci. Food Agri.* 85(14): 2380-2384
- Ganniga, P. 1999. Antioxidative activity of polyphenolic compounds extracted from seed coat of tamarindus indica linn. Chiang Mai : Graduate School, Chiang Mai University.

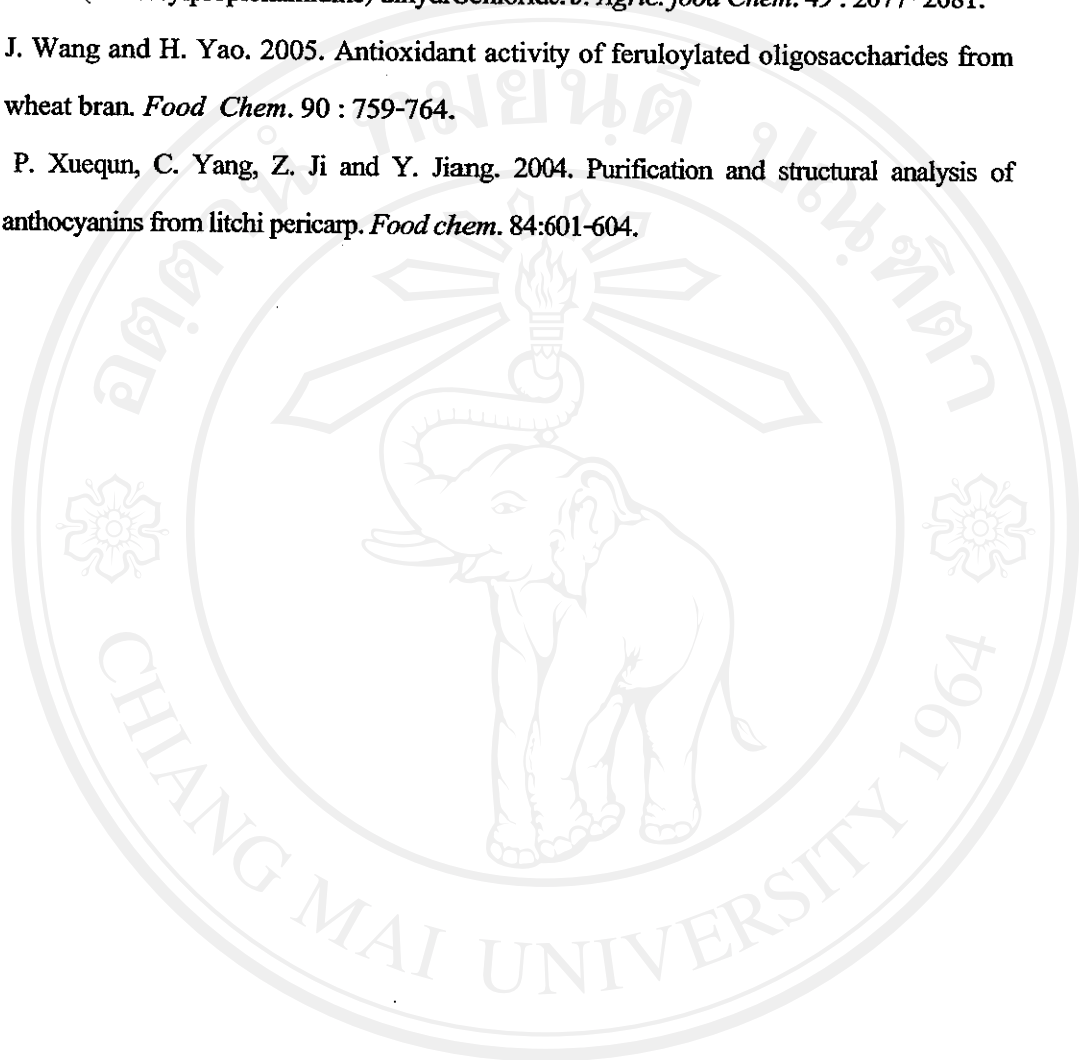
- Ghiselli, A., M. Nardini, A. Baldi and C. Scaccini. 1998. Antioxidant activity of different phenolic fractions separated from an Italian red wine. *J. Agric. Food Chem.* 46(2):361-367.
- Halliwell, B. and J. M. C. Gutteridge. 1999. Free radical in biology and medicinal 3rd ed. India:Thomson press Ltd., pp. 22-30.
- Hazel, H. S. 2006. Cell-permeable, Mitochondrial-targeted peptide antioxidants. *AAPS J.* 8 (2) ; E 277-283.
- Hertog, M. G. L., P. C. H.Hollman, M. B. Katan and D. Kromhout. 1993. Intake of potentially anticarcinogenic flavonoids and their determinants in adults in Netherlands. *Nutr. Cancer.* 20:21-29.
- Hu, C., J. Zawistowski, W. Ling and D. D. Kitts. 2003. Black rice (*Oryza sativa* L. indica) pigmented fraction suppresses both reactive oxygen species and nitric oxide in chemical and biological model systems. *J. Agric. Food Chem.* 51(18):5271-5277.
- Huang, C. C. J. 2003. Potential functionality and digestibility of oryzanol as determined using *In vitro* cell culture models. Department of food science. Louisiana State University. 159pp.
- Iqbal, S., M.I. Bhangar and F. Anwar. 2005. Antioxidant properties and components of some commercially available varieties of rice bran in Pakistan. *Food Chem.* 93: 265–272.
- Kanski, J., M.Aksenova, A. Stoyanova and D.A. Butterfield. 2002. Ferulic acid antioxidant protection against hydroxyl and peroxy radical oxidation in synaptosomal and neuronal cell culture systems *in vitro*: structure–activity studies. *J. Nutr. Biochem.* 13: 273–281.
- Karladee, D., P. Pongpiachan, T. Taltachum and A. Gavilo. 2003. Accumulation of gamma-oryzanol in purple rice grain. Book of abstracts. BioThailand 2003. p374.
- King, W. M. and M. Sergio. 2003. Pentose phosphate pathway. Biochemistry University of Brescia [Online] Available <http://www.med.unibs.it/~marchesi/ppp.html> (19 March 19 2007)
- Kong, J. M., L. S. Chia, N. K. Goh, T. F. Chia and R. Brouillard. 2003. Analysis and biological activities of anthocyanins. *Phytochem.* 64 : 923-933.
- Kristian, T. and B. K. Siesjo. 1998. Calcium and Mitochondria in Ischemic Cell Death. Presented at INABIS '98 - 5th Internet World Congress on Biomedical Sciences at McMaster University, Canada, Dec 7-16th. Invited Symposium. [online] Available <http://www.mcmaster.ca/inabis98/lahe/kristian0829/index.html> (27 April 2007)

- Leelarungrayub, N., N. Chanarat and V. Rattanapanone. 2004. Potential activity of Thai shallot (*Allium ascalonicum* L.) extract on the prevention of hemolysis and glutathione depletion in human erythrocyte from oxidative stress. *CMU. J.* 3(3):225-234.
- Leelarungrayub, N., V. Rattanapanone, N. Chanarat and J. M. Gebicki. 2006. Quantitative evaluation of the antioxidant properties of garlic and shallot preparations. *Nutr* 22 ; 266–274.
- Ling, W. H., L. Wang and J. Ma. 2002. Supplementation of the black rice outer layer fraction to rabbits decreases atherosclerotic plaque formation and increases antioxidant status. *J. Nutr.* 132 : 20–26.
- Ling, W. H., Q. X. Cheng, J. Ma and T. Wang. 2001. Red and black rice decrease atherosclerotic plaque formation and increase antioxidant status in rabbits. *J. Nutr.* 131:1421-1426.
- Machlin, J. L. and A. Bendich. 1987. Free radical tissue endamage: protective role of antioxidant nutrients. *FASEB J.* 1:441-445
- Mazza, G. and E. Miniati. 1993. Anthocyanins in fruits vegetables and grains. CRC Press, Boca Raton. Florida. 362 p.
- Metsä-Ketelä, T. 1991. Luminescent assay for total peroxy radical-trapping capability of plasma. In: Stanley P, Kricka L, eds. *Bioluminescence and Chemiluminescence: Current Status*. Chichester, UK: John Wiley & Sons Inc: 389–392.
- Miller, E. R. and D. E. Ullrey. 1987. The pig as a model for human nutrition. *Ann. Rev. Nutr.* 7:361-382
- Miller, N. J., C. Rice-Evans, M. J. Davies, V. Gopinathan and A. Milner. 1993. A novel method for measuring antioxidant capacity and its application to monitoring the antioxidant status in premature neonates. *Clin. Sci.* 84: 407–412.
- Min, D.B. and J.M. Boff. 2002. Chemistry and reaction of singlet oxygen in foods. *Comprehensive reviews in food science and food safety.* 1:58-72.
- National Research Council. 1998. Nutrient requirements of swine 10<sup>th</sup> rev. ed. Washington. D.C. National Academy Press. 189 pp.
- Norton, R.A. 1995. Quantitation of steryl ferulate and *p*-coumarate esters from corn and rice bran. *Lipids* 30: 269-274.

- Oki, T., M. Masuda, M. Kobayashi, Y. Nishiba, S. Furuta, I. Suda and T. Sato. 2002. Polymeric procyanidins as radical scavenging components in red-hulled rice. *J. Agric. Food Chem.* 50:7524-7529.
- Packer, L., M. Hiramatsu and T. Yoshikawa. 1999. Antioxidant food supplements in human health San Diego. Calif. Academic Press. 511 p.
- Pawlowicz, P. 2000. Administration of natural anthocyanins derived from chokeberry retardation of idiopathic and preeclamptic origin. Influence on metabolism of plasma oxidized lipoproteins: the role of autoantibodies to oxidized low-density lipoproteins. *Ginekol Pol.* 71(8):848-53.
- Petrucci, R. H., W. S. Harwood and G. Herring. 2002. General chemistry : prince and modern applications. Prentice-Hall, Inc. [Online] Available.  
[http://www.cwx.prenhall.com/petrucci/medialib/media\\_portfolio/index.html/](http://www.cwx.prenhall.com/petrucci/medialib/media_portfolio/index.html/) (22 Jul 2006).
- Pokorny, J., N. Yanishlieva and M. Gordon. 2001. Antioxidant in food. CRC Press, England, 380pp.
- Re, R., N. Pellegrini, A. Proteggente, A. Pannala, M. Yang and C. Rice-Evans. 1999. Antioxidant activity applying an improved ABTS radical cation decolourisation assay. *Free Radicals in Biology and Medicine.* 26 : 1231-1237.
- Reddy, A.R. 1996. Genetic and molecular analysis of the anthocyanin pigmentation pathway in rice. Rice genetics III. Proceedings of the Third International Rice Genetics Symposium, 16-20 Oct 1995. Manila (Philippines): IRRI. 343-352.
- Rice-Evan, C. A., N. J. Miller, P. G. Bolwell, P. M. Bramley and J. B. Pridham. 1995. The relative antioxidant activities of plant-derived polyphenolic flavonoids. *Free Radic Res.* 22:375-383
- Roberfroid, M. B. and P. B. Calderon. 1995. Free radical and oxidation phenomena in biological system. Marcel Dekker, Inc. New York, U. S. A.
- Ryu, S. N., S. Z. Park and C. T. Ho. 1998. High performance liquid chromatographic determination of anthocyanin pigments in some varieties of black rice. *J. food drug anal.* 6(4) : 729-736.
- Sarma, A. D. and R. Sharma. 1999. Anthocyanin-DNA copigment complex: mutual protection against oxidative damage. *Phytochem.* 45 : 671-674.

- Sarma, A. D., Y. Sreelakshmi, and R. Sharma. 1997. Antioxidant ability of anthocyanins against ascorbic acid oxidation. *Phytochem.* 45 : 671-674.
- Steven, I. B. and H. Salem. 1997. Oxidants, antioxidants, and free radicals. Taylor & Francis. Washington, D.C. 364 p.
- Susan, J. D., A. M. Jenkinson, A. Crozier, W. ullen, L. Pirie, J Kyle, L. S. Yap, P. Christen and G. G. Duthie. 2006. The effects of cranberry juice consumption on antioxidant status and biomarkers relating to heart disease and cancer in healthy human volunteers. *Eur. J. Nutr.* 45 : 113–122
- Teltathum, T. 2004. Effect of Gamma Oryzanol in purple glutinous rice bran on immune response in male mice (*Mus Musculus*). Thesis for master of science, Chiang Mai University. 115 pp.
- Teresa, M. E. B., S. B. Celestino and C. R. G. Julian. 2004 Anthocyanins in cereals. *J. Chromatogr. A*, 1054 : 129–141
- Todd, J. J. and L. O. Vodkin. 1993. Pigmented soybean (*Glycine max*) seed coats accumulate proanthocyanidins during development. *Plant Physiol.* 102: 663-670
- Valdez, L. B., S. L. Arnaiz, J. Bustamante, S. Alvarez, L. E. Costa, A. Boveris. 2000 Free radical chemistry in biological systems. *Biol. Res.* 33 (2)
- Wang, C. J., J. M. Wang, W. L. Lin, C. Y. Chu, P. I. Chou and T. H. Tseng. 2000. Protective effect of Hisbiscus anthocyanins against tert-butyl hydroperoxide-induced hepatic toxicity in rats. *Food Chem. Tox.* 38 : 411-416
- Wang, H., G. H. Cao and R. L. Prior. 1997. Oxygen radical absorbing capacity of anthoyanin. *J. Agric. food Chem.* 2: 304-309.
- Wang, H., M. G. Nair, G. M. Strasburg, Y. C. Chang, A. M. Booren, J. I. Gray and D. L. DeWitt. 1999. Antioxidant and anti-inflammatory activities of anthocyanins and their aglycon cyanidin from tart cherries. *J. Nat. Prod.* 62:294-296.
- Whitehead, T.P., G. H. G. Thorpe and S. R. J. Maxwell. 1992 An enhanced chemiluminescent assay for antioxidant capacity in biological fluids. *Anal Chim Acta.* 266 : 265– 77.
- Xu, Z., and J. S. Godber. 1999. Purification and identification of components of gamma oryzanol in rice bran oil. *J. Agri. Food Chem.* 47: 2724 -2728.

- Xu, Z., Hua, N. and J. S. Godber. 2001. Antioxidant activity of tocopherols, tocotrienols, and gamma oryzanol components from rice bran against cholesterol oxidation accelerated by 2, 2'-azobis (2-methylpropionamide) dihydrochloride. *J. Agric. food Chem.* 49 : 2077- 2081.
- Yuan, X., J. Wang and H. Yao. 2005. Antioxidant activity of feruloylated oligosaccharides from wheat bran. *Food Chem.* 90 : 759-764.
- Zhang, Z., P. Xuequn, C. Yang, Z. Ji and Y. Jiang. 2004. Purification and structural analysis of anthocyanins from litchi pericarp. *Food chem.* 84:601-604.



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่  
Copyright© by Chiang Mai University  
All rights reserved