

บรรณานุกรม

- กฤษดา กาวิวงศ์. 2544. “การพัฒนาผลิตภัณฑ์ถนอมเนื้อจากปลา: การใช้เครื่องเทศเป็นสารกันหืน.”
วิทยานิพนธ์วิทยาศาสตรมหาบัณฑิต. สาขาวิชาวิทยาศาสตร์การอาหาร บัณฑิตวิทยาลัย,
มหาวิทยาลัยเกษตรศาสตร์.
- กองกานดา ชยามฤต. 2540. **สมุนไพรไทย ตอนที่ 6**. ฝ่ายพฤกษศาสตร์ป่าสำนักวิชาการป่าไม้กรม
ป่าไม้. กรุงเทพฯ : ไคมอนด์ พรินติ้ง.
- เกศศิณี ตระกูลทิวากร และ จันทร์เพ็ญ ศักดิ์สิทธิพิทักษ์. 2543. “ศักยภาพในการต้านสารอนุมูล
อิสระของสารสกัดจากผักพื้นบ้านไทย.” *อาหาร*. 30 (3) :164-176.
- คณะเทคโนโลยีการเกษตรและเทคโนโลยีอุตสาหกรรม มหาวิทยาลัยราชภัฏนครสวรรค์. 2551.
การปนเปื้อนและการเสื่อมเสียของเนื้อสัตว์และผลิตภัณฑ์. [ออนไลน์]. เข้าถึงได้จาก :
http://www.nsr.ac.th/e-learning/meattech/lesson/less12_5.html.
- ณฐนนท์ ตราชู. 2545. “กิจกรรมการต้านอนุมูลอิสระในเมล็ดพืชมงคลหลาย จิง และผลส้มแขก.”
รายงานวิจัยประจำปี คณะเทคโนโลยี, มหาวิทยาลัยมหาสารคาม.
- ดวงจันทร์ เกรียงสุวรรณ. 2547. **พืชผักผลไม้ไทยมีคุณค่าเป็นทั้งอาหารและยา ตอน “ผักชี”**.
[ออนไลน์]. เข้าถึงได้จาก : http://natres.psu.ac.th/radio/radio_article/radio46-47/46-470027.htm.
- นราพร พรหมไกรวร. 2552. “ความสามารถในการต้านออกซิเดชันและสารสำคัญที่พบในสาร
สกัดจากพืชป่าบางชนิด.” วิทยานิพนธ์วิทยาศาสตรมหาบัณฑิต สาขาวิชาวิทยาศาสตร์การ
อาหาร คณะอุตสาหกรรมเกษตร, สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง.
- นวลศรี รักจริยธรรม และ อัญญา เจนวิถีสุข. 2545. **แอนติออกซิแดนท์: สารต้านมะเร็งในผัก-
สมุนไพรไทย**. เชียงใหม่ : นพบุรีการพิมพ์.
- นันทวัน บุญประภัสร์ และ อนุช โชคชัยเจริญพร, (บรรณาธิการ.) 2543. **สมุนไพร: ไม้พื้นบ้าน
(4). สำนักงานข้อมูลสมุนไพร คณะเภสัชศาสตร์ มหาวิทยาลัยมหิดล**. กรุงเทพฯ : ประชาชน.
- นิธิยา รัตนานนท์. 2544. **หลักการแปรรูปอาหารเบื้องต้น**. พิมพ์ครั้งที่ 1. กรุงเทพฯ :
โอเดียนสโตร์.
- _____. 2548. **เคมีอาหาร**. กรุงเทพฯ : โอเดียนสโตร์.
- นรินาม. 2554. **ความหมายของพืชผักพื้นบ้าน**. [ออนไลน์]. เข้าถึงได้จาก :
<http://www.krudang.com/sheet/pak/kwammy.htm>.

- ปองทิพย์ สิทธิสาร และ ศิริเพ็ญ จริเกษม. 2551. “พฤษเคมี ฤทธิ์ด้านออกซิเดชัน และฤทธิ์ต้านเอนไซม์โคลินเอสเตอเรสของผักแปม (*Acanthopanax trifoliatum*).” ฝ่ายเภสัชและผลิตภัณฑ์ธรรมชาติ, สถาบันวิจัยวิทยาศาสตร์และเทคโนโลยีแห่งประเทศไทย (วว.).
- เปล่งศักดิ์ ภูษจร. 2543. “การสกัดสีจากผักปลังเพื่อพัฒนาเป็นสีผสมอาหาร.” ปรินญาวิทยาศาสตร์บัณฑิต สาขาวิชาวิทยาศาสตร์สิ่งแวดล้อม ภาควิชาวิทยาศาสตร์สิ่งแวดล้อม คณะวิทยาศาสตร์, มหาวิทยาลัยขอนแก่น.
- พรรณี เค้นรุ่งเรือง. 2550. “การตรวจสอบฤทธิ์การต้านอนุมูลอิสระของเปลือกต้นพีชวงศ์อบเชย.” *Thai Journal of Biotechnology*. 8 :49-54.
- มนหาทิพย์ ชูณฉลาด. 2539. “กรดแอสคอร์บิก และกรดอิทรอบิก/แอนติออกซิแดนท์.” *อาหาร*. 26(1) : 7-13.
- ไมตรี สุทธจิตต์ และ ศิริวรรณ สุทธจิตต์. 2545. “แอนติออกซิแดนท์: สารป้องกันโรคและเสริมสุขภาพ.” *วารสารมหาวิทยาลัยมหาสารคาม*. 21(1) : 57-62.
- รุ่งโรจน์ เหน่งคำ. 2551. “สมบัติของสารต้านอนุมูลอิสระที่สกัดจากผักกระถิน ผักแว่น และผักลาวทอง”. *วิทยานิพนธ์วิทยาศาสตรมหาบัณฑิต สาขาวิชาวิทยาศาสตร์และเทคโนโลยีการอาหาร, มหาวิทยาลัยเชียงใหม่*.
- เขวลักษณ์ สุรพันธ์พิชัย. 2536. *เทคโนโลยีเนื้อสัตว์และผลิตภัณฑ์*. พิมพ์ครั้งที่ 2. กรุงเทพฯ : สหมิตรออฟเซต.
- ศิวพร ศิวเวช. 2535. *วัตถุดิบในผลิตภัณฑ์อาหาร*. นครปฐม : ศูนย์ส่งเสริมและฝึกอบรมการเกษตรแห่งชาติ มหาวิทยาลัยเกษตรศาสตร์.
- ศุภวรรณ ถาวรชินสมบัติ, จินตนา ศรีสุข และ ปฎิมากร พะสุวรรณ. 2549. “การใช้ประโยชน์จากเปลือกข้าว (แกลบ) เพื่อสกัดสารกันเหี่ยวจากธรรมชาติ.” *อาหาร*. 36(4) : 315-326.
- สมาคมผู้ผลิตและแปรรูปสุกรเพื่อการส่งออก. 2554. *สถิติการบริโภคเนื้อสุกรของโลก*. [ออนไลน์]. เข้าถึงได้จาก : <http://hypnos.cpportal.net>.
- สัญญาชัย จตุรสิทธิ์. 2543. *เทคโนโลยีเนื้อสัตว์*. เชียงใหม่ : มหาวิทยาลัยเชียงใหม่.
- สุธรรม อารีกุล, จำรัส อินทร, สุวรรณ ทาเขียว และอ่องเต็ง นันทแก้ว. 2552ก. *องค์ความรู้เรื่องพืชป่าที่ใช้ประโยชน์ทางภาคเหนือของไทย เล่ม ๑*. มูลนิธิโครงการหลวง. กรุงเทพฯ : อัมรินทร์พรินติ้งแอนด์พับลิชชิ่ง.
- . 2552ข. *องค์ความรู้เรื่องพืชป่าที่ใช้ประโยชน์ทางภาคเหนือของไทย เล่ม ๒*. มูลนิธิโครงการหลวง. กรุงเทพฯ : อัมรินทร์พรินติ้งแอนด์พับลิชชิ่ง.

ป่าที่ใช้ประโยชน์ทางภาคเหนือของไทย เล่ม ๓. มูลนิธิโครงการหลวง. กรุงเทพฯ : อัมรินทร์พรินต์ติ้งแอนด์พับลิชชิ่ง.

สุภามาศ มุสิกะ. 2550. “สมบัติการต้านปฏิกิริยาออกซิเดชันของสารสกัดกระเจี๊ยบแดงและผลของน้ำตาลซูโครสต่อประสิทธิภาพการต้านปฏิกิริยาออกซิเดชันของสารสกัดกระเจี๊ยบแดงในผลิตภัณฑ์เนื้อสัตว์.” วิทยานิพนธ์วิทยาศาสตรมหาบัณฑิต สาขาวิชาวิทยาศาสตร์การอาหาร, สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง.

สุริยญา โพธิ์ดิษฐ์ศิริ. 2547. “การใช้สารสกัดจากดอกกระเจี๊ยบ เปลือกและเมล็ดส้มเขียวหวานเป็นสารต้านปฏิกิริยาออกซิเดชันธรรมชาติในผลิตภัณฑ์เนื้อสัตว์.” วิทยาศาสตรมหาบัณฑิต สาขาวิชาวิทยาศาสตร์การอาหาร, สถาบันเทคโนโลยีพระจอมเกล้าลาดกระบัง.

โอภา วัชรกุลปต์. (บรรณาธิการ.) 2549. สารต้านอนุมูลอิสระ. นนทบุรี : พี.เอส.พรินท์.

Abd El-Alim, S.S., Lugasi, A., Hovari, J. and Dworschak, E. 1999. “Culinary herbs inhibit lipid oxidation in raw and cooked minced meat patties during storage.” **Journal of Science of Food and Agriculture.** 79 : 277-285.

Ahn, J., Grun, I. U. and Mustapha, A. 2007. “Effect of plant extracts on microbial growth, color change, and lipid oxidation in cooked beef.” **Food Microbiology.** 24 :7-14.

Aksu, M.I. and Kaya, M. 2005. “The effect of α -tocopherol and butylated hydroxyanisole on the colour properties and lipid oxidation of kavurma, a cooked meat product.” **Meat Science.** 71 : 277-283.

Al-Laith, A.A.A. 2010. “Antioxidant components and antioxidant/antiradical activities of desert truffle (*Tirmania nivea*) from various Middle Eastern origins.” **Journal of Food Composition and Analysis.** 23 : 15–22.

Allen, J.C. and Hamilton, R.J. 1994. **Rancidity in foods.** Blackie academic & professional

Amirdivani, S. and Baba, A.S. 2011. “Changes in yogurt fermentation characteristics, and antioxidant potential and in vitro inhibition of angiotensin-1 enzyme upon the inclusion of peppermint, dill and basil.” **Lebensmittel-Wissenschaft und-Technologie-Food Science and Technology.** 44 : 1458-1464.

Ananthan, R., Latha, M., Ramkumar, K.M., Pari, L., Baskar, C. and Bai, V.N. 2004. “Modulatory effects of *Gymnema montanum* leaf extract on Alloxan-induced oxidative stress in Wistar rats.” **Nutrition.** 20 : 280-285.

- Angelo, A.J. 1996. "Lipid oxidation in food." **Critical Reviews in Food Science and Nutrition**. 36 : 175-224.
- Ansari, M.N., Bhandari, U., Islam, F. and Tripathi, C.D. 2008. "Evaluation of antioxidant and neuroprotective effect of ethanolic extract of *Embelia ribes* Burm in focal cerebral ischemia/ reperfusion-induced oxidative stress in rats." **Fundamental and Clinical Pharmacology**. 22 : 305-314.
- AOAC. 2000. Total Solid Content, Gravimetric method 966.02. Official Methods of Analysis. **Association of Official Analytical Chemists**. EUA.
- AOCS. 1997. Official Methods and Recommended Practices of the AOCS. 4th ed. **American Oil Chemists' Society**. AOCS Press. Champaign. Additions and Revisions. Method Cd 18-90.
- Aqil, F., Ahmad, I. and Mehmood, Z. 2006. "Antioxidant and free radical scavenging properties of twelve traditionally used Indian medicinal plants." **Turkish Journal of Biology**. 30 : 177-183.
- Aguirrezabal, M.M., Mateo, J., Dominguez, M.C. and Zumalacarregui, J.M. 2000. "The effect of paprika, garlic and salt on rancidity in dry sausages." **Meat Science**. 54 :77-81.
- Aruoma, O.I. 1994. "Deoxyribose assay for detecting hydroxyl radicals." **Methods in Enzymology**. 233 : 57-66.
- Aruoma, O. I. and Halliwell, B. 1988. "The iron-binding and hydroxyl radical scavenging action of anti-inflammatory drugs." **Xenobiotica**. 18 : 459-470.
- Aruoma, O.I., Spencer, J.P.E., Warren, D., Jenner, P., Butler, J. and Halliwell, B. 1997. "Characterization of food antioxidants, illustrated using commercial garlic and ginger preparations." **Food Chemistry**. 60 : 149-156.
- Aruoma, O.I. and Cuppett. Eds. 2001. Antioxidant Methodology : *in vivo* and *in vitro* concepts United States of America : AOCS Press.
- Bahramikia, S., Ardestani, A. and Yazdanparast, R. 2009. "Protective effects of four Iranian medicinal plants against free radical-mediated protein oxidation." **Food Chemistry**. 115 : 37-42.
- Balentine, C.W., Crandall, P.G., O'Bryan, C.A., Duong, D.Q. and Pohlman, F.W. 2006. "The pre-and post-grinding application of rosemary and its effects on lipid oxidation and color during storage of ground beef." **Meat Science**. 73 : 413-421.

- Bekele, T. 2008. “**Antidiabetic activity and phytochemical screening of crude extracts of *Stevia rebaudiana* Bertoni and *Ajuga remota* Benth grown in Ethiopia on alloxan-induced diabetic mice.**” Master of Science in Medicinal Chemistry. Addis Ababa University.
- Bhandari, U., Ansari, M.N., Islam, F. and Tripathi, C.D. 2008. “The effect of aqueous extract of *Embelia ribes* Burm on serum homocysteine, lipids and oxidative enzymes in methionine induced hyperhomocysteinemia.” **Indian Journal of Pharmacology**. 40 : 152-157.
- Brand-Williams, W., Cuvelier, M.E. and Berset, C. 1995. “Use of a free radical method to evaluate antioxidant activity.” **Lebensmittel-Wissenschaft und-Technologie**. 28 : 25-30.
- Brenesa, A. and Roura, E. 2010. “Essential oils in poultry nutrition: Main effects and modes of action.” **Animal Feed Science and Technology**. 158 : 1–14.
- Brettonnet, A., Hewavitarana, A., DeJong, S. and Lanari, M.C. 2010. “Phenolic acids composition and antioxidant activity of canola extracts in cooked beef, chicken and pork.” **Food Chemistry**. 121 : 927-933.
- Buege, J.D. and Aust, S. 1978. “Microsomal lipid peroxidation.” **Methods in Enzymology**. 30 : 303-310.
- Cai, Y., Luo, Q., Sun, M. and Corke, H. 2004. “Antioxidant activity and phenolic compounds of 112 traditional Chinese medicinal plants associated with anticancer.” **Life Science**. 74 : 2157-2184.
- Carpenter, R., O’Grady, M.N., O’Callaghan, Y.C., O’Brien, N.M. and Kerry, J.P. 2007. “Evaluation of the antioxidant potential of grape seed and bearberry extracts in raw and cooked pork.” **Meat Science**. 76 : 604-610.
- Chan, E.W.C., Lim, Y.Y. and Chew, Y.L. 2007. “Antioxidant activity of *Camellia sinensis* leaves and tea from a lowland plantation in Malaysia.” **Food Chemistry**. 102 : 1214-1222.
- Chanwitheesuk, A., Teerawutgulrag, A. and Rakariyatham, N. 2005. “Screening of antioxidant activity and antioxidant compounds of some edible plants of Thailand.” **Food Chemistry**. 92 : 491-497.
- Chen, Y.H., Lin, Y.C. and Hsieh, C.L. 2007. “Evaluation of antioxidant activity of aqueous extract of some selected nutraceutical herbs.” **Food Chemistry**. 104 : 1418-1424.

- Choe, J.H., Jang, A., Choi, J.H., Choi, Y.S., Han, D.J., Kim, H.Y., Lee, M.A., Shim, S.Y. and Kim, C.J. 2010. "Oxidative and color stability of cooked ground pork containing lotus leaf (*Nelumbo nucifera*) and barley leaf (*Hordeum vulgare*) powder during refrigerated storage." **Meat science**. 87 : 12-18.
- Cray, J.I. and Crakel, R.L. 1992. Oxidative flavor changes in meat : their origin and prevention, pp. 145-168. In D.E. Johnston, M.K. Knight and D.A. Ledward (eds.). The chemistry of muscle-base foods. Royal Society of Chemistry, Cambridge.
- Croft, K.D. 1998. "The chemistry and biological effects of flavonoids and phenolic acids." **Annals of the New York Academy of Sciences**. 854 : 435-442.
- Damasius J., Venskutonis, P.R., Ferracane, R. and Fogliano, V. 2011. "Assessment of the influence of some spice extracts on the formation of heterocyclic amines in meat." **Food Chemistry**. 126 : 149-156.
- Das, A.K., Anjaneyula, A.S.R., Verma, A.R. and Kondaiah, N. 2008. "Physicochemical, textural, sensory characteristics and storage stability of goat meat patties extended with full-fat soy paste and soy granules." **International Journal of Food Science and Technology**. 43 : 383-392.
- Dejong, S. and Lanari, M.C. 2009. "Extracts of olive polyphenols improve lipid stability in cooked beef and pork: Contribution of individual phenolics to the antioxidant activity of extract." **Food Chemistry**. 116 : 892-897.
- Fasseas, M.K., Mountzouris, K.C., Tarantilis, P.A., Polissiou, M., and Zervas, G. 2007. "Antioxidant activity in meat treated with oregano and sage essential oils." **Food Chemistry**. 106 : 1188-1194.
- Fennema, O.R. 1996. **Food Chemistry**. 3rd ed. New York : Marcel Dekker.
- Fernandez, J., Perej-Alvarez, J. A. and Fernandez-Lopez, J. A. 1997. "Thiobarbituric acid test for monitoring lipid oxidation in meat." **Food Chemistry**. 59 : 345-353.
- Formanek, Z., Kerry, J.P., Higgins, F.M., Buckley, D.J., Morrissey, P.A., and Farkas, J. 2001. "Addition of synthetic and natural antioxidants to α -tocopheryl acetate supplemented beef patties: Effects of antioxidants and packaging on lipid oxidation." **Meat Science**. 58 : 337-341.

- Georgantelis, D., Blekas, G., Katikou, P., Ambrosiadis, I. and Fletouris, D.J. 2007. "Effect of Rosemary extract, chitosan and α -tocopherol on lipid oxidation and colour stability during frozen storage of beef burgers." **Meat Science**. 75 : 256-264.
- Gokoglu, N., Topuz, O.K. and Yerlikaya, P. 2009. "Effects of pomegranate sauce on quality of marinated anchovy during refrigerated storage." **Lebensmittel-Wissenschaft und-Technologie**. 42 : 113-118.
- Guerra, N.B., Melob, E.A. and Filho, J.M. 2005. "Antioxidant compounds from coriander (*Coriandrum sativum* L.) etheric extract." **Journal of Food Composition and Analysis**. 18 : 193-199.
- Guhabakshi, D.N., Sensarma, P. and Pal, D.C. 2001. **A Lexicon Medicinal Plants of India. Calcutta**. India : Naya Prakashan.
- Gutteridge, J.M.C. 1987. "Reactivity of hydroxyl radical and hydroxyl-like radical discriminated by release of thiobarbituric-acid-reactive material from deoxyribose nucleosides and benzoate." **The Journal of Biological Chemistry**. 224 : 761-767.
- Han, J. and Rhee, K.S. 2005. "Antioxidant properties of selected Oriental non-culinary/ nutraceutical herb extracts as evaluated in raw and cooked meat." **Meat Science**. 70 : 25-33.
- Han, S.K., Yang, H.S. and Rho, J.O. 2006. "A study on quality characteristics of Bokbunja-Pyun added with Rubi fruit juice." **Journal of East Asian Society Dietary Life**. 16 : 371-376.
- Hassan, O. and Fan, L.S. 2005. "The anti-oxidation potential of polyphenol extract from cocoa leaves on mechanically deboned chicken meat (MDCM)." **Lebensmittel-Wissenschaft und-Technologie**. 38 : 315-321.
- Hossain, E., Sarkar, D., Maitia, A., Chatterjee, M., Mandal, S.C. and Gupta, J.K. 2010. "Anti-inflammatory effect of a methanolic extract of leaves of *Dregea volubilis*." **Journal of Ethnopharmacology**. 132 : 525-528.
- Hudson, B. J. 1990. **Food Antioxidants**. London : Elsevier Science.
- Isabelle, M., Lee, B.L., Lim, M.T., Koh, W.P., Huang, D. and Ong, C.N. 2010. "Antioxidant activity and profiles of common vegetables in Singapore." **Food Chemistry**. 120 : 993-1003.
- Jain, S.C., Menghani, E. and Jain, R. 2007. "Biomarkers as a tool for validation of herbs and spices." **Internet Journal of Food Safety**. 9 : 1-6.

- Jo, C., Kang, H.J., Lee, M., Lee, N.Y. and Byun, M.W. 2004. "The antioxidative potential of lyophilized citrus peel extract in different meat model systems during storage at 20°C." **Journal of Muscle Foods**. 15 : 95-107.
- Jo, C., Son, J.H., Son, C.B. and Byun, M.W. 2003. "Functional properties of raw and cooked pork patties with add irradiated, freeze-dried green tea leaf extract powder during storage at 4 °C." **Meat Science**. 64 : 13-17.
- Joint FAO/WHO Expert Committee on Food Additives (JECFA). 2003. **Butylated hydroxyanisole. in Combined Compendium of Food Additive Specifications**. [Online]. Available: <http://www.fao.org/ag/agn/jecfa-additives/specs/Monograph1/additive-068.pdf>.
- Joint FAO/WHO Expert Committee on Food Additives (JECFA). 2003. **Butylated hydroxytoluene. in Combined Compendium of Food Additive Specifications**. [Online]. Available : <http://www.fao.org/ag/agn/jecfa-additives/specs/Monograph1/additive-069.pdf>.
- Joint FAO/WHO Expert Committee on Food Additives (JECFA). 2003. **Propyl gallate. in Combined Compendium of Food Additive Specifications**. [Online]. Available : <http://www.fao.org/ag/agn/jecfa-additives/specs/Monograph1/additive-291.pdf>.
- Joint FAO/WHO Expert Committee on Food Additives (JECFA). 2003. **Tert-Butylated hydroxyquinone. in Combined Compendium of Food Additive Specifications**. [Online]. Available: <http://www.fao.org/ag/agn/jecfaadditives/specs/Monograph1/additive-459.pdf>.
- Joshi, K. 2006. "Leaf flavonoid aglycone patterns, ethnobotany and conservation of *Schima wallichii*." **An International Journal of Ecology**. 13(1) : 9-13.
- Juntachote, T., Berghofer, E., Siebenhandl, S. and Bauer, F. 2006. "The antioxidative properties of Holy basil and Galangal in cooked ground pork." **Meat Science**. 72 : 446-456.
-
- _____. 2007a. "The effect of dried galangal powder and its ethanolic extracts on oxidative stability in cooked ground pork." **Lebensmittel-Wissenschaft und-Technologie**. 40 : 324-330.
-
- _____. 2007b. "Antioxidative effect of added dried Holy basil and its ethanolic extracts on susceptibility of cooked ground pork to lipid oxidation." **Food Chemistry**. 100 : 129-135.

- Kalaivani, T. and Mathew, L. 2010. "Free radical scavenging activity from leaves of *Acacia nilotica* (L.) Wild. ex Delile, an Indian medicinal tree." **Food and Chemical Toxicology**. 48 : 298–305.
- Kapoor, V.K., Chawla, A.S., Kumar, M. and Kumar, P. 1983. "Anti-inflammatory agent in Indian laboratories." **Indian Drugs**. 30 : 481-488.
- Katsube, T., Tabata, H., Ohta, Y., Yamasaki, Y., Anuurad, E., Shiwaku, K. and Yamane, Y. 2004. "Screening for antioxidant activity in edible plants products: Comparison of low-density lipoprotein oxidation assay, DPPH radical scavenging assay, and Folin-Ciocalteu assay." **Journal of Agricultural and Food Chemistry**. 52 : 2391-2396.
- Kiem, P.V., Cai, X.F., Minh, C.V., Lee, J.J. and Kim, Y.H. 2004. "Kaurane-type diterpene glycoside from the stem bark of *Acanthopanax trifoliatum*." **Planta Medica**. 70 : 282-284.
- Kirthikar, K.R. and Basu, B.D. 1987. **Indian Medicinal Plants, vol. 2**. Lalit Mohan Basu. Allahabad. India.
- Kobus-Cisowska, J., Flaczyk, E. and Jeszka, M. 2010. "Antioxidant activities of *Ginkgo Biloba* extracts : Application in freeze stored meat dumplings." **ACTA Scientiarum Polonorum Technologia Alimentaria**. 9 : 161-170.
- Koca, N., Karadeniz, F. and Burdurlu, H.F. 2006. "Effect of pH on chlorophyll degradation and colour loss in blanched green peas." **Food Chemistry**. 100 : 609–615.
- Kong, B., Zhang, H. and Xiong, Y.L. 2010. "Antioxidant activity of spice extracts in a liposome system and in cooked pork patties and the possible mode of action." **Meat Science**. 8 : 772-778.
- Kshirsagar, R. and Upadhyay, S. 2009. "Free radical scavenging activity screening of medicinal plants from Tripura, Northeast India." **Natural Product Radiance**. 8(2) : 117-122.
- Kubola, J. and Siriamornpun, S. 2008. "Phenolic contents and antioxidant activities of bitter gourd (*Momordica charantia* L.) leaf, stem and fruit fraction extracts *in vitro*." **Food Chemistry**. 110 : 881–890.
- Kumara Swamy, H.M., Krishna, V., Shankarmurthy, K., Abdul Rahiman, B., Mankani, K.L., Mahadevan, K.M., Harish, B.G. and Naika, R. 2007. "Wound healing activity of embelin isolated from the ethanol extract of leaves of *Embelia ribes* Burm." **Journal of Ethnopharmacology**. 109 : 529–534.

- Lakhanpal, P. and Rai, D.K. 2007. "Quercetin: A versatile flavonoid." **Internet Journal of Medical Update**. 2(2) : 22-37.
- Lakshminarayana, R., Raju, M., Krishnakantha, T.P. and Baskaran, V. 2007. "Lutein and zeaxanthin in leafy greens and their bioavailability: Olive oil influences the absorption of dietary lutein and its accumulation in adult rats." **Journal of Agricultural and Food Chemistry**. 55 : 6395-6400.
- Lara, M.S., Gutierrez, J.I., Timon, M. and Andres, A.I. 2011. "Evaluation of two natural extracts (*Rosmarinus officinalis* L. and *Melissa officinalis* L.) as antioxidants in cooked pork patties packed in MAP." **Meat Science**. 88 : 481-488.
- Larguerre, M., Lecomte, J., and Villeneuve, P. 2007. "Evaluation of the ability of antioxidants to counteract lipid oxidation: Existing methods, new trends and challenges." **Progress in Lipid Research**. 46: 244-282.
- Larson, R.A. 1995. **Antioxidant Mechanisms of Secondary Natural Products**. Oxidation Stress and Antioxidant Defense in Biology. In S. Ahmad, (eds). New York : Chappman & Hall.
- Lin, Y.S., Wu, S.S. and Lin, J.K. 2003. "Determination of tea polyphenols and caffeine in tea flowers (*Camellia sinensis*) and their hydroxyl radical scavenging and nitric oxide suppressing effects." **Journal of Agricultural and Food Chemistry**. 51 : 975-978.
- Loliger, J. and Wille, H.J. 1993. "Natural antioxidant." **Oil & Fat International**. 9(2) : 18-22.
- Lopez-Ayerra, B., Murcia, M.A. and Garcia-Carmona, F. 1998. "Lipid peroxidation and chlorophyll levels in spinach during refrigerated storage and after industrial processing." **Food Chemistry**. 61 : 113-118.
- Madhavi, D. L., Deshpande, S. S. and Salunkhe, D.K. 1996. **Food antioxidant : Technological, Toxicological and Health Perspectives**. New York : Marcel Dekker.
- Mahabusarakam, W., Nuangnaowarat, W. and Taylor, W.C. 2006. "Xanthone derivatives from *Cratoxylum cochinchinense* roots." **Phytochemistry**. 67 : 470-474.
- Mahendrana, S., Thippeswamyb, B.S., Veerapurb, V.P. and Badamib, S. 2011. "Anticonvulsant activity of embelin isolated from *Embelia ribes*." **Phytomedicine**. 18 : 186-188.
- Maisuthisakul, P. and Charuchongkolwongse, S. 2007. "Effect of *Cratoxylum formosum* extract and stripping on soybean oil stability." **Kasetsart Journal (Natural Science)**. 41 : 350-356.

- Maisuthisakul, P., Pasuk, S. and Ritthiruangdej, P. 2008. "Relationship between antioxidant properties and chemical composition of some Thai plants." **Journal of Food Composition and Analysis**. 21 : 229-240.
- Maisuthisakul, P., Pongsawatmanit, R. and Gordon, M.H. 2006. "Antioxidant properties of Teaw (*Cratoxylum formosum* Dyer) extract in soybean oil and emulsion." **Journal of Agricultural and Food Chemistry**. 54 : 2719-2725.
-
- _____. 2007a. "Characterization of the phytochemicals and antioxidant properties of extracts from Teaw (*Cratoxylum formosum* Dyer)." **Food Chemistry**. 100 : 1620-1629.
- Maisuthisakul, P., Suttajit, M. and Pongsawatmanit, R. 2007b. "Assessment of phenolic content and free radical-scavenging capacity of some Thai indigenous plants." **Food Chemistry**. 100 : 1409-1418.
- Maisuthisakul, P., Gordon, M.H., Pongsawatmanit, R. and Suttajit, M. 2007c. "Enhancing the oxidative stability of rice crackers by addition of the ethanolic extract of phytochemicals from *Cratoxylum formosum* Dyer." **Asia Pacific Journal of Clinical Nutrition**. 16(1) : 37-42.
- Mandal, S.C., Kumar, C.K.A., Majumder, A., Majumder, R. and Maity, B.C. 2000. "Antibacterial activity of *Litsea glutinosa* bark." **Fitoterapia**. 71 : 439-441.
- Manian, R., Anusuya, N., Siddhuraju, P. and Manian, S. 2008. "The antioxidant activity and free radical scavenging potential of two different solvent extracts of *Camellia sinensis* (L.) O. Kuntz, *Ficus bengalensis* L. and *Ficus racemosa* L." **Food Chemistry**. 107 : 1000-1007.
- Mantovaneli, I.C.C., Ferretti, E.C., Simões, M.R. and Da Silva, F.C. 2004. "The effect of temperature and flow rate on the clarification of the aqueous stevia-extract in a fixed-bed column with zeolites." **Brazilian Journal of Chemical Engineering**. 21 : 449-458.
- Martin-Diana, A.B., Rico, D. and Barry-Ryan, C. 2008. "Green tea extract as a natural antioxidant to extend the shelf-life of fresh-cut lettuce." **Innovative Food Science and Emerging Technologies**. 9: 593-603.
- Mathew, S. and Abraham, T.E. 2006 "In vitro antioxidant activity and scavenging effects of *Cinnamomum verum* leaf extract assayed by different methodologies." **Food and Chemical Toxicology**. 44 : 198-206.

- McCarthy, T.L., Kerry, J.P., Kerry, J.F., Lynch, P.B., and Buckley, D.J. 2001. "Assessment of the antioxidant potential of natural food and plant extracts in fresh and previously frozen pork patties." **Meat Science**. 57 : 177-184.
- McDonald, R.E. and Hultin, H.O. 1987. "Some characteristics of enzymic lipid peroxidation system in the microsomal fraction of flounder skeletal muscle." **Journal of Food Science**. 52 : 15-21, 27.
- McGarvey, B.D., Attygalle, A.B., Starratt, A.N., Xiang, B., Schroeder, F.C., Brandle, J.E. and Meinwald, J. 2003. "New non-glycosidic diterpenes from the leaves of *Stevia rebaudiana*." **Journal of Natural Product**. 66 : 1395-1398.
- Meilgaard, M., Civille, G.V. and Carr, B.T. 1999. **Sensory Evaluation Techniques**. 3rd edition. CRC Press, Boca Raton.
- Mielnik, M.B., Aaby, K. and Skrede, G. 2003. "Commercial antioxidants control lipid oxidation in mechanically deboned turkey meat." **Meat Science**. 65 : 1147-1155.
- Mitsumoto, M., O'Grady, M.N., Kerry, J.P. and Buckley, D.J. 2005. "Addition of tea catechins and vitamin C on sensory evaluation, colour and lipid stability during chilled storage in cooked or raw beef and chicken patties." **Meat Science**. 69 : 773-779.
- Moon, J.K. and Shibamoto, T. 2009. "Antioxidant assays for plant and food components." **Journal of Agricultural and Food Chemistry**. 57 : 1655-1666.
- Motamed, S.M. and Naghibi, F. 2010. "Antioxidant activity of some edible plants of Turkmen Sahra region in Northern Iran." **Food Chemistry**. 119 : 1637-1642.
- Moure, A., Cruz, J.M., Franco, D., Dominguez, J.M., Sineiro, J., Dominguez, H., Nunez, M.J. and Parajo, J.C. 2001. "Natural antioxidants from residual sources." **Food Chemistry**. 72 : 145-171.
- Muangman, T. 2005. "**Antioxidant activity and protective effects of *Gymnema Inodorum* Decne. on red blood cell hemolysis and DNA damage in TK6 human lymphoblastoid cells.**" Master of Science Thesis Faculty of Medicine Ramathibodi Hospital. Mahidol University.
- Murakami, M., Shukla, Y.N., Jain, S.P. and Kumar, S. 2004. "Effect of thermal treatment on radical-scavenging activity of single and mixed polyphenolic compounds." **Journal of Food Science**. 69 : FCT7-FTC10.

- Nakahara, K., Trakoontivakorn, G., Alzoreky, N.S., Ono, H., Onishi-Kameyama, M. and Yoshida, M. 2002. "Antimutagenicity of some edible Thai plants, and a bioactive carbazole alkaloid, mahanine, isolated from *micromelum minutum*." **Journal of Agricultural and Food Chemistry**. 50 : 4796-4802.
- Nanasombat, S. and Teckchuen, N. 2009. "Antimicrobial, antioxidant and anticancer activities of Thai local vegetables." **Journal of Medicinal Plants Research**. 3(5) : 443-449.
- Nguyen, L.H.D. and Harrison, L.J. 1998. "Triterpenoid and xanthone constituents of *Cratoxylum Cochinchinense*." **Phytochemistry**. 50 : 471-476.
- Nissen, L.R., Byerne, D.V., Bertelsen, G. and Skibsted, L.H. 2004. "The antioxidative activity of plant extracts in cooked pork patties as evaluated by descriptive sensory profiling and chemical analysis." **Meat Science**. 68 : 485-495.
- Oussalah, M., Caillet, S., Saucier, L. and Lacroix, M. 2006. "Antimicrobial effects of selected plant essential oils on the growth of a *Pseudomonas putida* strain isolated from meat." **Meat Science**. 73 : 236-244.
- Park, H.R., Park, E., Rim, A.R., Jeon, K.I., Hwang, J.W. and Lee, S.C. 2006. "Antioxidant activity of extracts from *Acanthopanax senticosus*." **African Journal of Biotechnology**. 5 : 2388-2396.
- Phaiwan. 2008. ตลาดเนื้อสัตว์โลก (วิเคราะห์ข่าว). [ออนไลน์]. เข้าถึงได้จาก : http://www.the-thainews.com/analized/inter/int/100751_6.html.
- Pilarski, R., Zieliński, H., Ciesiolka, D. and Gulewicz, K. 2006. "Antioxidant activity of ethanolic and aqueous extracts of *Uncaria tomentosa* (Willd.) DC." **Journal of Ethnopharmacology**. 104 : 18-23.
- Pereira de Abreu, D.A., Losada, P.P., Maroto, J. and Cruz, J.M. 2010. "Evaluation of the effectiveness of a new active packaging film containing natural antioxidants (from barley husks) that retard lipid damage in frozen Atlantic salmon (*Salmo salar* L.)." **Food Research International**. 43 : 1277-1282.
- Perry, L.M. 1981. **Medicinal Plants of East & Southeast Asia Attributed Properties and Uses**. Cambridge : The MIT press.
- Phomkaivon, N. and Areekul, V. 2009. "Screening for antioxidant activity in selected Thai wild plants." **Asian Journal of Food and Agro-Industry**. 2 : 433-440.

- Povichit, N., Phrutivorapongkul, A., Suttajit, M., Chaivasut, C. and Leelapongpisid, P. 2010. "Phenolic content and *in vitro* inhibitory effects on oxidation and protein glycation of some Thai medicinal plants." **Pakistan Journal of Pharmaceutical Sciences**. 23 : 403-408.
- Pyo, Y.H., Lee, T.C., Logendra, L., and Rosen, R.T. 2004. "Antioxidant activity and phenolic compounds of Swiss chard (*Beta vulgaris* subspecies *cycla*) extracts." **Food Chemistry**. 85 : 19-26.
- Rababah, T., Hettiarachchy, N.S., Horax, R., Cho, M.J., Davis, B. and Dickson, J. 2006. "Thiobarbituric acid reactive substances and volatile compounds in chicken breast meat infused with plant extracts and subjected to electron beam irradiation." **Poultry Science**. 85(6) : 1107-1113.
- Rahmani, M.B., Kiew, R. Lajis, N.H., Othman, R. and Toia, R.F. 1985. "A contribution to the phytochemical survey of Peninsular Malaysia." **Pertanika Journal**. 8 : 347-357.
- Ramkumar, K.M., Manjula, C., Sankar, L., Suriyanarayanan, S. and Rajaguru, P. 2009. "Potential *in vitro* antioxidant and protective effects of *Gymnema montanum* H. on alloxan-induced oxidative damage in pancreatic β -cell, HIT-T15." **Food and Chemical Toxicology**. 47 : 2246-2256.
- Racanicci, A.M., Danielsen, B., Menton, J.F.M., Regitano-d'rce, M.A.B. and Skibsted, L.H. 2004. "Antioxidant effect of dittany (*Origanum dictamnus*) in pre-cooked chicken meat balls during chill-storage in comparison to rosemary (*Rosmarinus officinalis*)." **European Food Research and Technology**. 218 : 521-524.
- Rey, A.I., Hopia, A., Kivikari, R. and Kahkonen, M. 2005. "Use of natural food/ plant extracts: cloudberry (*Rubus Chamaemorus*), beetroot (*Beta Vulgaris* "Vulgaris") or willow herb (*Epilobium angustifolium*) to reduce lipid oxidation of cooked pork patties." **Lebensmittel-Wissenschaft und-Technologie**. 38 : 363-370.
- Robert, C.H. 1978. **Meat, poultry and seafood technology**. New Jersey, U.S.A. : Prentice-Hall.
- Sangsrichan, S. and Ting, R. 2010. "Antioxidation and radical scavenging activities and tyrosinase inhibition of fresh tea leaves, *Camellia Sinensis*." **Science Journal Ubon Ratchathani University**. 1 : 76-81.
- Savita, S. M., Sheela, K., Sunanda, S., Shankar, A. G., Ramakrishna, P. and Sakey, S. 2004. "Health implications of *Stevia rebaudiana*." **Journal of Human Ecology**. 15 : 191-194.

- Sayago-Ayerdi, S.G., Brenes, A. and Goni, I. 2009. "Effect of grape antioxidant dietary fiber on the lipid oxidation of raw and cooked chicken hamburgers." **Lebensmittel-Wissenschaft und-Technologie**. 42 : 971-976.
- Schwartz, S.J. and von Elbe, J.H. 1983. "Kinetics of chlorophyll degradation to pyropheophytin in vegetables." **Journal of Food Science**. 48 : 1303–1306.
- Shahidi, F., Janita, P.K. and Wanasundara, P.D. 1992. "Phenolic antioxidants." **Critical Reviews in Food Science and Nutrition**. 32 : 67-103.
- Shahidi, F. and Alexander, D.M. 1998. "Green tea catechins as inhibitors of oxidation of meat lipids." **Journal of Food Lipids**. 5(2) : 125-133.
- Shan, B., Cai, Y.Z., Sun, M. and Corke, H. 2005. "Antioxidant capacity of 26 spice extracts and characterization of their phenolic constituents." **Journal of Agricultural and Food Chemistry**. 53 : 7749-7759.
- Shukla, S., Mehta, A., Bajpai, V.K. and b, Shukla, S. 2009. "In vitro antioxidant activity and total phenolic content of ethanolic leaf extract of *Stevia rebaudiana* Bert." **Food and Chemical Toxicology**. 47 : 2338–2343.
- Singleton, V.L., Orthofer, R., Lamuela-Raventós, R.M. and Lester, P. 1999. "Analysis of total phenols and other oxidation substrates and antioxidants by means of Folin-ciocalteu reagent." **Methods in Enzymology**. 299 : 152-178.
- Sithisarn, P., Jarikasem, S., Muensaen, S., Tungrithaiwanich, J. and Suntornantasat, T. 2008. "Antioxidant and acetylcholinesterase inhibitory effects of *Acanthopanax trifoliatum* leaf extracts from different extraction methods." **Academic conference: new drug and current therapy; natural sources and active compound discovery**. Bangkok. Thailand.
- Sharma, P.C., Yelne, M.B. and Dennis, T.J. 2002. "Database on medicinal plants used in Ayurveda. vol. 4. Central Council for Research in Ayurveda and Sidha. New Delhi. India.
- Shyamala, B.N., Gupta, S., Lakshmi, A.J. and Prakash, J. 2005. "Leafy vegetable extracts-antioxidant activity and effect on storage stability of heated oils." **Innovative Food Science and Emerging Technologies**. 6 : 239-245.
- Shyu, Y.S., Lin, J.T., Chang, Y.T., Chiang, C.J. and Yang, D.J. 2009. "Evaluation of antioxidant ability of ethanolic extract from dill (*Anethum graveolens* L.) flower." **Food Chemistry**. 115 : 515-521.

- Simic, A., Manojlovic, D., Segan, D. and Todorovic, M. 2007. "Electrochemical behavior and antioxidant and prooxidant activity of natural phenolics." **Molecules**. 12 : 2327-2340.
- Siriwatanametanon, N., Fiebich, B.L., Efferth, T., Prieto, J.M. and Heinrich, M. 2010. "Traditionally used Thai medicinal plants: *In vitro* anti-inflammatory, anticancer and antioxidant activities." **Journal of Ethnopharmacology**. 130 : 196–207.
- Steet, J.A. and Tong, C.H. 1996. "Degradation kinetics of green color and chlorophylls in peas by colorimetry and HPLC." **Journal of Food Science**. 61 : 924–927.
- Sultana, B., Anwar, F. and Ashraf, M. 2009. "Effect of extraction solvent/ technique on the antioxidant activity of selected medicinal plant extracts." **Molecules**. 14 : 2167-2180.
- Surveswaran, S., Cai, Y.Z., Corke, H. and Sun, M. 2007. "Systematic evaluation of natural phenolic antioxidants from 133 Indian medicinal plants." **Food Chemistry**. 102 : 938–953.
- Tabart, J., Kevers, C., Pincemail, J., Defraigne, J.O. and Dommes, J. 2009. "Comparative antioxidant capacities of phenolic compounds measured by various tests." **Food Chemistry**. 113(4): 1226-1233.
- Tachakittirungrod, S., Okonogi, S. and Chowwanapoonpohn, S. 2007. "Study on antioxidant activity of certain plants in Thailand: Mechanism of antioxidant action of guava leaf extract." **Food Chemistry**. 103 : 381–388.
- Tadhani, M.B., Patel, V.H. and Subhash, R. 2007. "*In vitro* antioxidant activities of *Stevia rebaudiana* leaves and callus." **Journal of Food Composition and Analysis**. 20 : 323-329.
- Tang, S., Kerry, J.P., Sheehan, D. and Buckley, D.J. 2001a. "A comparative study of tea catechins and α -tocopherol as antioxidants in cooked beef and chicken meat." **European Food Research and Technology**. 213 : 286-289.
- Tang, S., Kerry, J.P., Sheehan, D., Buckley, D.J. and Morrissey, P.A. 2001b. "Antioxidative effect of added tea catechins on susceptibility of cooked red meat, poultry and fish patties to lipid oxidation." **Food Research International**. 34 : 651-657.
- Tangkanakul, P., Trakoontivakorn, G. and Jariyavattanavijit, C. 2005. "**Extracts of Thai indigenous vegetables as rancid inhibitor in a model system.**" Institute of Food Research and Product Development. Kasetsart University. Bangkok.

- Udomchotphruet, S., Phuwapraisirisan, P., Sichaem, J. and Tip-pyang, S. 2010. "Xanthones from the stems of *Cratoxylum cochinchinense*." **Phytochemistry**. (In press).
- Varnam, A. and Sutherland, J.M. 1995. **Meat and Meat Products**. London : Chapman&Hall.
- Vo, V.V. 1997. **A Dictionary of Medicinal Plants in Vietnam**, vol. 435. HoChiMinh City : YHoc Publisher.
- Vongsawasdi, P., Nopharatana, M., Sasaeng, K., Tantek, P. and Wongphaisitpisan, S. 2010. "Kinetics of chlorophyll degradation in pandanus juice during pasteurization." **Asian Journal of Food and Agro-Industry**. 3(01) : 44-51.
- Vuorela, S., Salminen, H., Makela, M., Kivikari, R., Karonen, M. and Heinonen, M. 2005. "Effect of plant phenolics on protein and lipid oxidation in cooked pork meat patties." **Journal of Agricultural and Food Chemistry**. 53 : 8492–8497.
- Wangenstein, H., Samuelson, A.B. and Malterud, K.E. 2004. "Antioxidant activity in extracts from coriander." **Food Chemistry**. 88 : 293-297.
- Wijeratne, S.S.K., Amarowicz, R. and Shahidi, F. 2006. "Antioxidant activity of almonds and their by-products in food model systems." **Journal of the American Oil Chemists' Society**. 83 : 223-230.
- Witzell, J., Gref, R. and Nasholm, T. 2003. "Plant-part specific and temporal variation in phenolic compounds of boreal bilberry (*Vaccinium myrtillus*) plants." **Biochemical Systematics and Ecology**. 31: 115-127.
- Wong, C.C., Li, H.B., Cheng, K.W. and Chen, F. 2006. "A systematic survey of antioxidant activity of 30 Chinese medical plants using the ferric reducing antioxidant power assay." **Food Chemistry**. 97 : 705-711.
- Wu, C.H., Lin, W.H., Hseu, Y.C., Lien, J.C., Lin, Y.T., Kuo, T.P. and Ching, H. 2011. "Evaluation of the antioxidant activity of five endemic Ligustrum species leaves from Taiwan flora in vitro." **Food Chemistry**. (In press).
- Xu, J., Chen, S. and Hu, Q. 2005. "Antioxidant activity of brown pigment and extracts from black sesame seed (*sesamum indicum* L.)." **Food Chemistry**. 91 : 79-83.
- Xu, B. and Chang, S.K.C. 2008. "Effect of soaking, boiling and steaming on total phenolic content and antioxidant activities of cool season food legumes." **Food Chemistry**. 110 : 1-13.

- Yang, H.S., Lee, E.J., Moon, S.H., Paik, H.D. and Ahn, D.U. 2011. "Addition of garlic or onion before irradiation on lipid oxidation, volatiles and sensory characteristics of cooked ground beef." **Meat Science**. 88 : 286-291.
- Yao, L.H., Jiang, Y., Datta, N., Singanusong, R. Liu, X., Duan, J., Raymont, K. Lisle, A. and Xu, Y. 2004. "HPLC analyses of flavanols and phenolic acids in the fresh young shoot of tea (*Camellia sinensis*) grown in Australia." **Food Chemistry**. 84 : 253-263.
- Yen, G.C., Chen, H.Y., and Peng, H.H. 2001. "Evaluation of cytotoxicity, mutagenicity and antimutagenicity of emerging edible plants." **Food and Chemical toxicology**. 39 : 1045–1053.
- Zhao, J. and Larock, R.C. 2007. "Synthesis of xanthenes, thioxanthenes, and acridones by the coupling of arynes and substituted benzoates." **The Journal of Organic Chemistry**. 72 : 583-588.
- Zheng, W. and Wang, S.Y. 2001. "Antioxidant activity and phenolic compounds in selected herbs." **Journal of Agricultural and Food Chemistry**. 49 : 5165-5170.
- Zhu, Q.Y., Hackman, R. M., Ensunsa, L. J., Holt, R. R. and Keen, C. L. 2002. "Antioxidative activities of Oolong tea." **Journal of Agricultural and Food Chemistry**. 50 : 6929-6934.
- Zin, Z.M., Abdul-Hamad, A., and Osman, A. 2002. "Antioxidative activity of extracts from Mengkudu (*Morinda citrifolia* L.) root, fruit and leaf." **Food Chemistry**. 78 : 227-231.