BIBLIOGRAPHY

- Agrios, G.N. 1988. Plant pathology. 3rd (ed). Academic Press, New York. 803 pp.
- Alberti-Segui, C., A.J Morales, H. Xing, M. Kessler, M. Willins, D.A. Weinstock, K.G. Cottarel, K. Fechtel, and B. Rogers. 2004. Identification of potential cellsurface proteins in *Candida albicans* and investigation of the role of aputative cell – surface glycosidase and virulence. *Yeast.* 21: 285-302.
- Almenar, E., R. Auras, M. Rubino and B. Harte. 2007. A new technique to prevent the main post harvest diseases in berries during storage: inclusion complexes βcyclodextrin-hexanal. *International Journal of Food Microbiology*. 118: 164-172.
- Anderson, R.A., T.R. Hamilton-Kemp, D.F. Hildeband, Jr.C.T. McCracken, R.W. Collins and P.D. Fleming. 1994. Structure- antifungal activity relationships among volatile C₆ and C₉ aliphatic aldehyde, ketones, and alcohols. *Journal of Agricultural and Food Chemistry.* 42: 1563-1568.
- Anupunt, P. and N. Sukhvibul. 2005. Lychee and longan production in Thailand. *Acta Horticulturae* (ISHS). 665: 53-60.
- Archbold, D.D., T.R. Hamiltion-Kemp, M.M. Barth and B.E. Langlois. 1997a.
 Identify natural volatile compounds that control gray mold (*Botrytis cinerea*) during postharvest storage of strawberry, blackberry, and grapes. *Journal of Agricultural and Food Chemistry*. 45: 4032-4037.
- Archbold, D.D., T.R. Hamilton-Kemp, B.E. Langlois and M.M. Barth. 1997b. Natural volatile compounds control *Botrytis* on strawberry fruit. *Acta Horticulturae* (ISHS). 439: 923-930.
- Archbold, D.D., T.R. Hamiltion-Kemp, A.M. Clements and R.W. Collins. 1999. Fumigating crimson seedless table grapes with (E)-2-hexenal reduces mold during long term postharvest storage. *HortScience*. 34: 705-707.

- Arroyo, F.T.; J. Moreno, G. García-Herdugo, De B.los Santos, C. Barrau, M. Porras,
 C. Blanco and F. Romero. 2005. Ultrastructure of the early stages of *Colletotrichum acutatum* infection of strawberry tissues. *Canadian Journal of Botany.* 83: 491–500.
- Arroyo, F.T., J. Moreno, P. Daza, L. Boianova and F. Romero. 2007. Antifungal activity of strawberry fruit volatile compounds against *Colletotrichum acutatum*. *Journal of Agricultural and Food Chemistry*. 55: 5701-5707.
- Arras, G., M. Agabbio, A. Piga, G. D'hallewin, D. Gerasopoulos, C. Oympios and H.Vassam. 1995. Fungicide effect of volatile compounds of *Thymus capitatus* essential oil. *Acta Horticulture*. 379: 593-600.
- Avisar, L., Droby, S. and Pesis, E. 1990. Characterization of acetaldehyde effects on *Rhizopus stolonifer* and *Botrytis cinerea*. *The Annuals Applied Biology*. 116: 213-220.
- Baayen, R.P., E.A.M. Schoffelmeer, S. Toet and D.M. Elgersma. 1997. Fungal polygalacturonase activity reflects susceptibility of carnation cultivars to fusarium wilt. *European Journal of Plant Pathology*. 103: 15–23.
- Barash, I., E. Zilberman and L. Marcus. 1984. Purification of *Geotrichum candidum* endopolygalacturonase from culture and from host tissue by affinity chromatography on cross-linked polypectate. *Physiological Plant Pathology*. 25: 161–169.
- Barkai-Golan, R. 2001. Postharvest disease of fruits and vegetables. Development and control. Department of Postharvest Science of Fresh Produce, Institute of Technology and Storage of Agriculture Products. The Volcani Center, Bet-Dagan, Israel. 418 pp.
- Barrett, D.M., E.L. Garcia, G.F. Russell, E. Ramirez and A. Shirazi. 2000. Blanch time and cultivar effects on quality of frozen and stored corn and broccoli. *Journal of Food Science*. 65: 534-540.

- Bateman, D.F. and H.G. Basham. 1976. Degradation of plant cell walls and menbrances by microbial enzymes. pp. 316-355. *In* R. Heitefuss and P.H. Williams (eds.), Encyclopedia of plant physiology, New Ser., Vol. 4. Physiological Plant Pathology, Springer Verlag, Berlin.
- Bernards, M.A. and B.E. Ellis. 1991. Phenylalanine Ammonia-Lyase from tomato cell cultures inoculated with *Verticillium albo-atrum*. *Plant Physiology*. 97:1494-1500.
- Boss, P.K., R.C. Gardener, B.J. Janssen and G.S. Ross. 1995. An apple polyphenol oxidase cDNA is up-regulated in wounded tissues. *Plant Molecular Biolology*. 27: 429–433.
- Bostock, R.M., S.M. Wilcox, G. Wang and J.E. Adaskaveg. 1999. Suppression of Monillinia fructicola cutinase production by peach fruit surface phenolic affeti. Physiological and Molecular Plant Pathology. 54: 37-50.
- Boudjeko, T., N.A. Omokolo, A. Driouich and A.P. Balange. 2005. Peroxidase and pectin methylesterase activities in cocoyam (*Xanthosoma sagittifolium* L. Schott) roots upon *Pythium myriotylum* inoculation. *Journal of Phytopathology*. 153: 409-416.
- Bradford, M.M. 1976. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding. *Analytical Biochemistry*. 72: 248-254.
- Campbell, R.J. and C.W. Campbell. 1981. Evaluation of the longan as a potential crop for Florida. *Proceedings of the annual meeting of the Florida State Horticultural Society*. 94: 307-309.
- Campa, A. 1991. Biological roles of plant peroxidases: known and potential function.*In* : Peroxidases in chemistry and biology vol. 2. pp. 25-50. CRC Press, Boca Raton.

- Center for Agriculture Information office of Agricultural Economics. 2004. Agricultural Statistics of Thailand No. 410. Ministry of Agriculture and Co-Operatives, Bangkok, Thailand.
- Chana, C., S. Sangchote and N. Farungsang. 1991. Control of rambutan and durian fruit rot after harvest, final report. Bangkok, Thailand, National Research Council.
- Chilosi, G. and P. Magro. 1997. Pectin lyase and polygalacturonase isoenzyme production by *Botrytis cinerea* during the early stages of infection on different host plants. *Journal of Plant Pathology*. 78: 61–69.
- Clark, T.A., R.J. Zyen, A.G. Smith, T.L.W. Carver and C.P. Vance. 1994. Phenylalanine ammonia lyase mRNA accumulation, enzyme activity and cytoplasmic responses in barley isolines differing at M1-a and M1-0, attacked by *Erysiphe graminis* f.sp. *hordei. Physiological and Molecular Plant Pathology.* 44: 171-185.
- Cleveland, T.E. and P.J. Cotty. 1991. Invasiveness of *Aspergillus flavus* isolates in wounded cotton bolls is associated with production of a specific fungal polygalacturonase. *Phytopathology*. 81: 155-158.
- Cohen, Y., H. Eyal and J. Hanania, 1990. Ultrastruture, autofluorescence, callose deposition and lignification in susceptible and resistant muskmelon leaves infected with the powdery mildew fungus *Sphaerotheca fuliginea*. *Physiological and Molecular Plant Pathology*. 39: 191-204.
- Constabel, C.P., D.R. Bergey and C.A. Ryan. 1995. System in activates synthesis of wound-inducible tomato leaf polyphenol oxidase via the octadecanoid defense signalling pathway. *Proceeding of the National Academy of Sciences of the United States of America*. 92: 407–411.
- Constabel, C.P. and C.A. Ryan. 1998. A survey of wound- and methyl jasmonateinduced leaf polyphenol oxidase in crop plants. *Phytochemistry*. 47:507–511.
- Corbo, M.R., R. Lanciotti, F. Gardini, M. Singaglia and M.E. Guerzoni. 2000. Effects of hexanal, *trans-2-hexanal*, and storage temperature on shelf life of

fresh sliced apples. *Journal of Agricultural and Food Chemistry*. 48: 2401-2408.

- Cox, S.D., C.M. Mann and J.L. Markham. 2000. The mode of antimicrobial action of essential oil of *Melaleuca alternifokia* (tea tree oil). *Journal of Applied Microbiology*. 88: 170-175.
- Dewanto, V., X.Z. Wu, K.A. Kaful and R.H. Liu. 2002. Thermal processing enhances the nutritional value of tomatoes by in increasing total antioxidant activity. *Journal of Agricultural and Food Chemistry*. 50: 3010-3014.
- EAFUS: A Food Additive Database. 2006. Center of food safety and applied nutrition. U.S. Food and Dug Administration (FDA).
- El- hilali, A., A. Oubabou, A. Remah and O. Akhaya. 2003. Chilling injury and peroxidase activity changes in "Fortune" Mandarin fruit during low temperature storage. *Bulgarian Journal Plant Physiology*. 29: 44-54.
- Fallik, E., D.D. Archbold, T.R. Hamilton-Kemp, A.M. Clements, R.W. Collins and M.M. Barth. 1998. (E)-2-Hexenal both stimulates and inhibits Botrytis cinerea growth in vitro and on strawberry fruit *in vivo*. *Journal of the American Society for Horticultural Science*. 123: 875–881.
- Fan, L., J. Song, R.M. Beaudry and P.D. Hildebrand. 2006. Effect of hexanal vapor on spore viability of *Penicillium expansum*, lesion development on whole apples and fruit volatile biosynthesis. *Journal of Food Science*. 71: M105-M109.
- Fenaroli, G. 1995. *Fenaroli's Handbook of Flavor Ingredients Vol. 11.* 3rd ed. Burdock, G. A. CRC Press, Boca Raton.
- French, R. C. 1985. The bioregulatory action of flavor compounds on fungal spores and other propaguls. *Annual Review Phytopathology*. 23: 179-199.
- Friend, Y. 1981. Plant phenolics, lignification and plant disease. *Progress Phytochemistry*. 7: 197-261.

- Fries, N. 1973. Effects of volatile organic compounds on the growth and development of fungi. *Transactions of the British Mycological Society*. 60: 1-21.
- Gardini, F., R. Lanciotti, R. Belletti and M.E. Guerzoni. 1997. Antifungal activity of hexanal as dependent on its vapor pressure. *Journal of Agricultural and Food Chemistry*. 45: 4297-4302.
- Gooding, P.S., C. Bird and S.P. Robinson. 2001. Molecular cloning and characterisation of banana fruit polyphenol oxidase. *Planta*. 213: 748–757.
- Guerzoni, M.E., M.C. Nicoli, R. Massin and C.R. Lerici 1997. Ethanol vapor pressure as a control factor during alcoholic fermentation. World Journal of Microbiology and Biotechnology. 13: 11-16.
- Hamilton-Kemp, T.R., C.T. McCracken, J.H. Loughrin, R.A. Anderson and D.
 F.Hildebrand. 1992. Effects of some natural volatile compounds on the Pathogenic fungi *Alternaria alternata* and *Botrytis cinerea*. *Journal of Chemical Ecology*. 18: 1083-1091.
- Hangerman, A.E. and P.J.Austin. 1986. Continuous spectrophotometric assay for plant pectin methyl esterase. *Journal of Agricultural and Food Chemistry*. 34: 440-444.
- Hatanaka, A. 1993. The biogeneration of green odor by green leaves. *PhytoChemistry*. 34: 1201-1218.
- Helander, I.M., A. von Wright and T.M. Mattilla-Sandholm. 1997. Potential of lactic acid bacteria and novel antimicrobials against Gram-negative bacteria. *Trends in Food Science and Technology*. 8: 146-150.
- Hildebrand, D. F. 1989. Lipoxygenases. Physiologia Plantarum. 76: 249-253.
- Holz, G. and P.S. Knox-Davies. 1985. Production of pectic enzymes by *Fusarium* oxysporum f.sp. cepae and its involvement in onion buld rot. *Phytopathology*. 112: 69-80.

- Huang, H.B. 1995. Advances in fruit physiology of the arillate fruits of litchi and longan. Annual Reviewed of Horticulture Science. 1, 107–1,120.
- Jaitong, S. 2006. Microscopic anatomy and chemical components of normal and chilling injured longan fruit pericarps. Ph.D. Thesis. Chiang Mai University, Chiang Mai.
- Jiang, Y.M. 1999. Purification and some properties of polyphenol oxidase of longan fruit. *Food Chemistry*. 66: 75-79.
- Jiang, Y. and Y. Li. 2001. Effects of chitosan coating on postharvest life and quality of longan fruit. *Food Chemistry*. 73: 139-143.
- Jiang, Y.M., Z. Zhang, D.C. Joyce and S. Ketsa. 2002. Postharvest biology and handling of longan fruit (*Dimocarpus longan* Lour.). Postharvest Biology and Technology. 26: 241-252.
- Johnson, G.I., A.J. Mead, A.W. Cooke and J.P. Dean. 1989. Mango stem end rot pathogens infection level between flowering and harvest. Annual report. ACIAR Project 8844. Department of primary Industries and Ayr, Queenland.
- Kays, S.J. 1991. *Postharvest Physiology of Perishable Plant Products*. Van Nostrand Reinhold, New York.
- Knobloch, K., A. Pauli, B. Iberl, N. Weis and H. Weigand. 1988. Mode of action of essential oil components on whole cells and fungi in plate tests. In: Schreier, P. (Ed.), Bioflavour '87. Walter de Gruyter, Berlin, pp. 287–299.
- King, M.M. and P.M. Ludford. 1983. Chilling injury and electrolyte leakage in fruit of different tomato cultivarss. *Journal of the American Society for Horticultural Science*. 40: 300-304.
- Kubo, I. and K.I. Fujita. 2001. Naturally occurring anti- Salmonella agents. *Journal* of Agricultural and Food Chemistry. 49: 5750-5754.
- Kubo, I., K.I. Fujita, A. Kubo, K.I. Nihei and C. Lunde. 2003. Modes of antifungal action of 2(E)-alkenals against Saccharomyes cerevisiae. Journal of Agricultural and Food Chemistry. 51: 3951–3957.

- Lambert, R.J.W., P.N. Skandamis, P.J. Coote and G.J.E.Nychas. 2001. A study of the minimum inhibitory concentration and mode of action of oregano essential oil, thymol and carvacrol. *Journal of Applied Microbiology*. 91: 453-462.
- Lanciotti, R., N. Belletti, F. Patrignani, A. Gianotti, F. Gardini and E. Guerzoni. 1999. Effect of hexanal on the shelf –life of fresh apple slices. *Journal of Agricultural and Food Chemistry*. 47: 4769-4776.
- Leone, G. and J. Van den Heuvel. 1987. Regulation by carbohydrates of the sequential in vitro production of pectic enzymes by *Botrytis cinerea*. *Canadian*. *Journal.of Bot*any. 65: 2133-2141.
- Macedo, G.A. and T.F. Pio. 2005. A rapid screening method for cutinase producing microorganisms. *Journal of Microbiology*. 36: 388-394.
- Marciano, P., P.Di Lenna and P. Magro. 1982. Polygalacturonase isoenzymes produced by *Sclerotinia sclerotiorum in vivo* and *in vitro*. *Physiological Plant Pathology*. 20: 201–212.
- Mari, M. and M. Guizzardi. 1998. The postharvest phase: emerging technologies for the control of fungal diseases. *Phytoparasitica*. 26: 59-66.
- Menzel, C.M., B.J. Watson, and D.R. Simpson. 1989. Longans a place in Queensland's horticulture? *Queensland Agricultural Journal*. Sept. – Oct.: 251-265.
- Myung, K. 2005. Biosynthesis of *trans*-2-hexenal in response to wounding in strawberry fruit and interaction of *trans*-2-hexenal with *Botrytis cinerea*. Ph.D Dissertation, University of Kentucky, Kentucky.
- Myung, K., T.R. Hamilton-Kemp and D.D. Archbold. 2007. Interaction with and effects on the profile of proteins of *Botrytis cinerea* by C6 aldehydes. *Journal of Agricultural and Food Chemistry*. 55: 2182-2188.
- Nachaiwieng, S. 1994. Molds in panicle and stem end of longan. (*Euphoria longana* Lamk.) cv. Daw. M.S. Thesis. Chiang Mai University, Chiang Mai.

- Nagaraja Rao, K.S., K.R. Sreekantiah and T.N. Ramachandra Rao. 1971. Postharvest infection of coconut kemel by *Botryodiplodia theobromae* and a note of the hydrolytic enzymes secreted by the fungus. *Indian Phytopathology*. 24: 815-819.
- Ndubizu, T.O.C. 1976. Relation of phenolic ingibitors to resistance of immature apple fruits to rot. *The Journal of Horticultural Science*. 51: 311-319.
- Neri, F., M. Mari and S. Brigati. 2006. Control of *Penicillium expansum* by plant volatile compounds. *Plant Pathology*. 55: 100–105.
- Neri, F., M. Mari, S. Brigati and P. Bertolini. 2007. Fungicidal activity of plant volatile compounds for controlling monilinia laxa in stone fruit. *Plant Disease*. 91: 30-35.
- Office of Agricultural Economics. 2009. Longan [Online]. Available: http://www.oae.go.th/oae_website/oae_area.php [Febuary 28, 2009]
- Paull, R. E. and N. J. Chen. 1987. Changes in longan and rambutan during postharvest storage. *HortScience*. 7: 77-78.
- Pearce, G., P.A. Marchand, J. Griswold, N.G. Lewis and C.A. Ryan. 1998. Accumulation of feruloyltyramine and coumaroyltyramine in tomato leaves in response to wounding. *Phytochemistry*. 47: 659-664.
- Peng, J., X. Tang and H. Feng. 2004. Effects of brassinolide on the physiological properties of litchi pericarp (*Litchi chinensis* cv. Nuomoci). *Scientia Horticulturae*. 101: 407-416.
- Ploetz R.C. 2003. Diseases of Atemoya, Cherimoya, Soursop, Sugar Apple and Related Fruit Crops. University of Florida, Tropical Research and Education Center, Homestead, Florida, USA.
- Punithalingam, E. and P. Holiday. 1973. Botryosphaeria ribis Descriptions of Pathogenic Fungi and Bacteria. Common Wealth Mycological Institute, Kew.

- Qiu, J. D., X.Z. Luo and D.Y.Wu. 2001. Regulation of flower bud differentiation in longan. ISHS Acta Horticulturae 558: I International symposium on Lichi and Longan.
- Ramonell, K.M. and S. Somerville. 2002. The genomics parade of defense responses: to infinity and beyond. *Current Opinion in Plant Biology*. 5: 291-294.
- Ramos-Nino, M.E., C.A. Ramirez-Rodriguez, M.N. Cifford and M.R. Adam. 1996. A comparison of quantitative structure activity relationships for the effect of benzoic and cinnamic acids on Listeria monocytogenes using muitiple linear regression, artificial neural network and fuzzy systems. *Journal of Applied Microbiology*. 82: 68-75.
- Rasrinaul, W. 1996. Postharvest decay of longan (*Dimocarpus longan* Lour sp. Longan var. Longan) by acetaldehyde. M.S. Thesis. Chiang Mai University, Chiang Mai.
- Ray, H. and R. Hammerschmidt. 1998. Response of potato tuber to infection by Fusarium sambucinum. Physiological and Molecular Plant Pathology. 53: 81-92.
- Reed, O. 1986. Current status of lychees and longans in South Florida. *HortScience*. 99: 219-221.
- Rimpranam, W. and S. Sangchoed. 2002. Preliminary investigation of postharvest diseases of longan in Pong nam ron, Chantaburi. *Agricultural Science Journal*. 33: 131-133.
- Rinpol, A. 2005. Effect of Storage Temperatures on the Quality of SO2 treated Longan Fruit cv. Daw. M.S.Thesis. Chiang Mai University, Chiang Mai.
- Saluja, D. and R.C. Sachar. 1982. GA,-modulated multiple forms of monophenolase in wheat seed. *Phytochemistry*. 21: 2625-2631.
- Sangchote, S and R. Pongpisuta. 1995. Fruit rot of mangoteen and their control. ACIAR Project No 9313, Annual Report 1995. Department. of Plant Pathology, Kasetsart University, Bangkok.

- Sangchote, S. 1987. Postharvest disease of mango fruits and their lossed. *Kasetsart*. (*Natural Science*) 21: 81-85.
- Shi, Q. 1990. Studies on postharvest physiology and handling of longan fruit. *Fujian Fruits*. 18: 1-4.
- Song, J., R. Leepipattwit, W. Deng and R. Beaudry. 1996. Hexanal vapor is a natural, metabolize fungicide: inhibition of fungal activity and enhancement of aroma biosynthesis in apple slice. *Journal of the American Society for Horticultural Science*. 121: 937-942.
- Song, J., R. Leepipattwit, W. Deng and R. Beaudry. 1998. Hexanal vapor acts as residueless antifungal agent that enhances aroma biosynthesis in apple fruit. *Acta Horticulturae*. 464: 219 – 224.
- Song, J., W.E. Renderos, L. Campbell-Palmer, C. Doucette, P.D. Hildebrand, L. Fan and C.F. Forney, 2007. Effect of hexanal vapor on the growth of postharvest pathogens and fruit decay [electronic resource]. *Journal of Food Science*. 72: m180-m112.
- Spotts, R.A., P.L. Sholberg, P. Randall, M. Serdani and P.M. Chen. 2007. Effects of 1-mcp and hexanal on decay of d'anjou pear fruit in long-term cold storage. *Postharvest Biology and Technology*. 44: 101-106.
- Srichart, W. 2002. Effect of food preservatives and coating materials on shelf life of longan fruit cv. Dor. M.S. Thesis. Chiang Mai University, Chiang Mai.
- Srivastava, M.P. and R. N. Tandon. 1971. Postharvest diseases of papaya. *Public Awareness of Nuclear Science*. 17: 51-54.
- Staples, R.C. and A.M. Mayer. 1995. Putative virulence factors of *Botrytis cinerea* acting as a wound pathogen. *FEMS Microbiology Letters*. 134: 1-7.
- Subhadrabandhu, S. 1992. Status of the tropical fruit industry in Thailand. *Acta Horticulturae*. 292: 13–23.

- Subhadrabandhu, S. and C. Yapwattanaphun. 2000. Lychee and longan production in Thailand. Paper presented at the First International Symposium on Litchi and Longan, Guangzhou, China, 19-23 June, 2000.
- Sun, J., Y.F. Chu, X. Wu and R.H. Liu. 2002. Antioxidant and antiproliferative activities of common fruits. *Journal of Agricultural and Food Chemistry*. 50: 7449-7454.
- Suwanakood, P. 2007. Develoment of fungal fruit rot disease on fruit peel and stemend of postharvested longan(*Dimocarpus longan* Lour.) cv. Daw. Ph.D. Thesis. Chiang Mai University, Chiang Mai.
- Suwanakood, P., V. Sardsud, S. Sangchote and U. Sardsud. 2004. Microscopic observation and pathogenicity determination of common molds on postharvest longan fruit cv. Daw. The 20th Biennial Conference of the Asian Association for Biology Education (ZZBE), 26-30 December 2004, Chiang Mai University, Chiang Mai, Thailand.
- Thatcher, L.F., J.P. Anderson and K.B. Singh. 2005. Plant defense responses: what we learnt from Arabidopsis? *Functional Plant Biology*. 32: 1-19.
- Thipyapong, P., M.D. Hunt and J.C. Steffens. 1995. Systemic wound induction of potato (*Solanum tuberosum*) polyphenol oxidase. *Phytochemistry*. 40: 673-676.
- Thipyapong, P., D.M. Joel and J.C. Steffens. 1997. Differential expression and turnover of the tomato polyphenol oxidase gene family during vegetative and reproductive development. *Plant Physiology* 113: 707–718.
- Tongdee, S. C. 1997. Longan. pp. 335-345. *In*: S.K. Mitra, (ed.), *Postharvest Physiology and Storage of Tropical and Subtropical Fruits*. CAB International, UK.
- Utama, I.M.S., R.B.H. Willis, S. Ben-Yehoshua and C. Kuek. 2002. *In vitro* efficacy of plant volatiles for inhibiting the growth of fruit and vegetable decay microorganisms. *Journal of Agricultural and Food Chemistry*. 50: 6371-6377.

- Utto, W., A.J. Mawson and J.E. Bronlund. 2008. Hexanal reduces infection of tomatoes by botrytis cinerea whilst maintaining quality. *Postharvest Biology* and Technology. 47: 434-437.
- Valero, E., R. Varon and F. Garcia- Carmona. 1990. Inhibition of grape polyphenol oxidase by several aliphatic alcohols. *Journal of Agricultural and Food Chemistry*. 38: 1097-1103.
- Vaughn, S.F., G.F. Spencer and B.S. Shasha. 1993. Volatile compounds from raspberry and strawberry fruit inhibit postharvest decay fungi. *Journal of Food Science*. 58: 793–796.
- Vidhyasekaran, P. 1997. Fungal pathogenesis in plants and crops: molecular biology and host defense mechanisms. pp. 553. Marcel Dekker: New York.
- Walton, T. J. 1990. Waxes, cutin and suberin, lipids, membranes and aspects of photobiology vol.4 (J.L. Harwood and J.R. Bowyer,eds.), Methods in plant biochemistry, Academic press, New York, pp.105-108.
- Wang, G., T.J. Michailides and R.M. Bostock. 1997. Improved detection of polygalacturonase activity due to *Mucor piriformis* with a modified dinitrosalicylic acid reagent. *Phytopathology*. 87: 161-163.
- Wijesundra, R.L.C., J.A. Bailey, R.J.W. Byrde and A.H. Fielding. 1989. Cell wall degrading enzymes of *Colletotrichum lindemuthianum*; their role in the development of bean anthracnose. *Physiological and Molecular Plant Pathology* 34: 403-413.
- Wilson, C.L., J.D. Franklin and B.E. Otto. 1987. Fruit volatiles inhibitory to *Monilinia fructicola* and *Botrytis cinerea*. *Plant Disease*. 71: 316-319.
- Winston, E.C., P.J. O'Farrell, and K.E. Young. 1993. Yield and fruit quality of longan (*Dimocarpus longan* Lour.) cultivars on the Atherton Tableland of tropical north Australia. *Fruit Variety. Journal*. 47: 153–160.
- Withee, K. 1997. Effect of carbonate and bicarbonate compounds on fruit quality and the control of *Lasiodiplodia* sp. and *Pestalotiopsis* sp. at postharvest on

longan (*Dimocarpus longan* Lour spp. *Longan* var.*Longan*) fruits. M.S. Thesis. Chiang Mai University, Chiang Mai.

- Wong, K. C. 2000. Variations of local longan in Malaysia. Paper presented at the First International Symposium on Litchi and Longan, Guangzhou, China, 19-23 June, 2000.
- Zhang, Z.Q., X.Q. Pang, Z.L. Ji and T. Li. 1999. Effect of SO₂ release on storage and postharvest physiology of longan fruits. *China Journal of Tropical Crops*. 20: 54-58.
- Zhang, Z., X. Pang, D. Xuewu, Z. Ji and Y. Jiang. 2005. Role of peroxidase in anthocyanin degradation in litchi fruit pericarp. *Food Chemistry*. 90: 47-52.

