

REFERENCES

- Abbott, J.A., and Harker, F.R. (2005). *Texture*[Online]. Available: <http://www.ba.ars.usda.gov/hb66/021texture.pdf> [2005, July 19].
- Acree, T., and Am, H. (2005). *Flavournet*[Online]. Available: <http://www.flavournet.org> [2005, August 10]
- Adams, R.P. (1995). Identification of essential oil components by Gas Chromatography/Mass Spectroscopy. Carol Stream. IL, USA : Allured Publishing.
- Adams, R.P. (2001). Identification of essential oil components by Gas Chromatography/ Quadrupole mass Spectroscopy. Carol Stream. IL, USA : Allured Publishing.
- Adams, J.B., and Blundstone, H.A.W. (1971). Canned fruits other than citrus. in A.C. Hulme (Ed.). *The biochemistry of fruits and their products*. (Vol. 2, pp. 507-541). London and New York : Academic Press.
- Aguilera, J.M., and Stanley, D.W. (1999). *Microstructural principles of food processing and engineering*. (2nd Ed.). Gaithersburg, Maryland : Aspen Publishers.
- Aharoni, A., Giri, A.P., Verstappen, F.W.A., Berte, C.M., Sevenier, R., Sun, Z., Jongsma, M.A., Schwab, W., and Bouwmeester, H.J. (2004). Gain and loss of fruit flavour compounds produced by wild and cultivated strawberry species. *The plant cell.*, 16, 3110-3131.
- Aibara, S., Kobayashi, T., and Morita, Y. (1981). Isolation and properties of basic isoenzymes of horseradish peroxidase. *J. Biochem.*, 90, 489-496.
- Aleman, G., Farkas, D., Torres, J., Wilhelmsen, E., and McIntyre, S. (1994). Ultra-high pressure pasteurisation of fresh cut pineapple. *J. Food Protect.*, 57, 931-934.
- Alvarez, M.D., Saunders, D.E.J., and Vincent, J.F.V. (2000a). Effect of turgor pressure on the cutting energy of stored potato tissue. *Eur. Food Res. Technol.*, 210, 331-339.

- Alvarez, M.D., Saunders, D.E.J., Vincent, J.F.V., and Jeronimidis, G. (2000b). An engineering method to evaluate the crisp texture of fruit and vegetables. *J. Text. Stud.*, 31, 457-473.
- Anese, M., Nicola, M.C., Dall'Aglio, G., and Lerici, C.R. (1995). Effect of high pressure treatments on peroxidase and polyphenoloxidase activities. *J. Food Biochem.*, 18, 285-293.
- Apichartsrangkoon, A. (1998). *Effects of high pressure on rheological and chemical characteristics of plant proteins*. Ph.D. thesis, The University of Reading, Reading, UK.
- Arroyo, G., Sanz, P.D., and Prostamo, G. (1997). Effect of high pressure on the reduction of microbial populations in vegetables. *J. Appl. Microbiol.*, 82, 735-742.
- Asaka, M., Aoyama, Y., Nakanishi, R., and Hayashi, R. (1994). Purification of a latent form of polyphenoloxidase from La France pear fruit and its pressure -activation. *Biosci. Biotech. Biochem.*, 58(8), 1486-1489.
- Axelrod, B., Cheesbrough, T.M., and Laakso, S. (1981). Lipoxygenase from soybeans. *Methods Enzymol.*, 71, 441-451.
- Aylward, F., and Haisman, D.R. (1969). Oxidation systems in fruits and vegetables - their relation to the quality of preserved products. *Adv. Food Res.*, 17, 1-76.
- Baardseth, P. and Slinde, E. (1980). Heat inactivation and pH optima of peroxidase and catalase in carrot, swede and Brussels sprouts. *Food Chem.*, 5, 169-174.
- Balasubramaniam, B. *High pressure processing* [Online]. Available: <http://grad.fst.ohio-state.edu/hpp> [2005, December 21].
- Balny, C., and Masson, P. (1993). Effects of high pressure on proteins. *Food Rev. Int.*, 9, 611-628.
- Basak, S., and Ramaswamy, H.S. (1998). Effect of high pressure processing on texture of selected fruit and vegetables. *J. Text. Stud.*, 29, 587-601.
- Bate, N.J., Sivasankar, S., Moxon, C., Riley, J.M.C., Thompson, J.E., Rothstein, S.J. (1998). Molecular characterisation of an *Arabidopsis* gene encoding hydroperoxide lyase, a cytochrome P-450 that is wound inducible. *Plant physiology.*, 117, 1393-1400.

- Ben-Arie, R., and Lavee, S. (1971). Pectic changes occurring in Elberta peaches suffering from woolly breakdown. *Phytochem.*, 10, 531-538.
- Ben-Aziz, A., Grossman, S., Ascarelli, I., and Budowski, P. (1970). Linoleate oxidation induced by lipoxygenase and heme proteins: A direct spectrophotometric assay. *Anal. Biochem.*, 34, 88-100.
- Bendall, D.S., and Gregory, R.P.F. (1963). Purification of phenol oxidases. In J.B. Pridham (Ed.). *Enzyme Chemistry of Phenolic Compounds*. (pp.7- 24). Oxford : Pergamon Press.
- Bignon, J. (1996) Cold pasteurisers hyperbar for the stabilisation of fresh fruit juices. *Fruit processing.*, 2, 46-48.
- Bourne, M.C. (1982). *Food texture and viscosity : concept and measurement*. (pp. 330). London, UK : Academic Press.
- Bourne, M.C. (2002). *Food texture and viscosity : concept and measurement*. (2nd Ed., pp. 257-290). New York and London : Academic Press.
- Bouton, P.E., Ford, A.L., Harris, P.V., Macfarlane, J.J., and O' Shea, J.M. (1977). Pressure-heat treatment of postrigor muscle : Effects on tenderness. *J. Food Sci.*, 42, 132-135.
- Boynton, B.B., Sims, C.A., Sargent, S., Balaban, M.O., and Marshall, M.R.(2002) Quality and stability of precut mangoes and carambolas subjected to high pressure processing. *J. Food Sci.*, 67(1). 409-415.
- Brummell,D.A. and Harpster,M.H. (2001). Cell wall metabolism in fruit softening and quality and its manipulation in transgenic plants. *Plant Mol. Biol.*, 47, 311-340.
- Butz, P., Edenharder, R., Fister, H., and Tauscher, B. (1997). The influence of high pressure processing on anti-mutagenic activities of fruit and vegetable juices. *Food Res. Int.*, 30, 287-291.
- Butz, P., Koller, W.D., Tauscher, B., and Wolf, S. (1994). Ultra-high pressure processing of onions : chemical and sensory changes. *Lebensm.-Wiss. u.-Technol.*, 27, 463-467.
- Cano,M.P.,Hernandez, A., and DeAncos, B.(1997).High pressure and temperature effects on enzyme inactivation in strawberry and orange products. *J. Food Sci.*, 62, 85-88.

- Cash, J.N., Sistrunk, W.A., and Stutte, C.A. (1976). Characteristics of Concord grape polyphenoloxidase involved in juice colour loss. *J. Food Sci.*, 41, 1398-1402.
- Castellari, M., Matricardi, L., Arfelli, G., Rovere, P. and Amati, A. (1997). Effects of high pressure processing on polyphenoloxidase enzyme activity of grape musts. *Food Chem.*, 60(4), 647-649.
- Cavaletto, C.G. (1980). Lychee. in S. Nagy, and P.E. Shaw (Eds.), *Tropical and Subtropical Fruits* (pp. 469-478), Westport, CT : AVI Publishing Co.
- Chan, H.W.-S. (1973). Soya-bean lipoxygenanase : An iron-containing dioxygenase. *Biochimica et Biophysica Acta (BBA)-Enzymology.*, 327(1), 32-35.
- Chan, H.T., and Kwok, S.C.M. (1974). Nonvolatile acids in lychee. *J. Food Sci.*, 39, 792-793.
- Chan, H.T., Kwok, S.C.M., and Lee, C.W.Q. (1975). Sugar composition and invertase activity in lychee. *J. Food Sci.*, 40, 772-774.
- Chandler, B.V., and Clegg, K.M. (1970a). Pink discolouration in canned pears. I. Role of tin in pigment formation. *J. Sci. Food Agric.*, 21, 315-319.
- Chandler, B.V., and Clegg, K.M. (1970b). Pink discolouration in canned pears. II. Measurement of potential and developed colour in pear samples. *J. Sci. Food Agric.*, 21, 319-323.
- Chandler, B.V., and Clegg, K.M. (1970c). Pink discolouration in canned pears. III. Inhibition by chemical additives. *J. Sci. Food Agric.*, 21, 323-328.
- Cheftel, J.-C. (1992). Effects of high hydrostatic pressure on food constituents : An overview. in C. Balny, R. Hayashi, K. Heremans, and P. Masson (Eds.), *High Pressure and Biotechnology* (pp.195-209), Colloque INSERM. Montrouge : John Libbey Eurotext.
- Cheng, Y-C., and Hwang, L.S. (1984). Studies on the red discolouration of canned lychee : 2. Discussion on the pigment of red discolouration. *Food Sci.*, 11 (1,2), 134-144.
- Chong, PL-G., Fortes, P.A.G., and Jameson, D.M. (1985). Mechanisms of inhibition of (Na,K)-ATPase by hydrostatic pressure studied with fluorescent probes. *J. Biol. Chem.*, 260(27) : 14484-14490.

- Conway, W.S., Sams, C.E., Wang, C.Y., and Abbott, J.A. (1994). Additive effects of postharvest calcium and heat treatment on reducing decay and maintaining quality in apples. *J. Am. Soc. Hort. Sci.*, 119, 49-53.
- Czernasky, A. (1970). Pink discolouration in canned Williams' Bon Chretien pears. *J. Food Sci.*, 35, 608-611.
- Darbyshire, B. (1971). The effect of water stress on indoleacetic acid oxidase in pea plants. *Plant Physiol.*, 47(1), 65-67.
- Defaye, A.B., and Ledward, D.A. (1995). Pressure induced dimerisation of met-myoglobin. *J. Food Sci.*, 60, 262-264.
- Deibler, K.D., Acree, T.E., and Lavin, E.H. (1999). Solid phase microextraction application in Gas Chromatography/Olfactory dilution analysis. *J. Agric. Food Chem.*, 47(4), 1616-1618.
- DeLong, E.F., and Yayanos, A.A. (1985). Adaptation of the membrane lipids in deep-sea bacteria to changes in hydrostatic pressure. *Science.*, 228, 1101-1103.
- Dong, U.L., Jiyong, P., Jungil, K., and Ick, H.Y. (1996). Effect of high hydrostatic pressure on the shelf life and sensory characteristics of *Angelica keiskei* juice. *Korean J. Food Sci. Technol.*, 28, 105-108.
- Donsi, G., Ferrari, G., DiMatteo, M., and Bruno, M.C. (1997). High pressure stabilisation of orange juice. in R. Jowitt. (Ed.). *Engineering and Food at ICEF 7, Part 1.* (pp. D5-8). Sheffield : Academic Press.
- El-Bayoumi, M.A., and Frieden, E. (1957). A spectrophotometric method for the determination of the catecholase activity of tyrosinase and some of its applications. *J. Am. Chem. Soc.*, 79, 4854-4858.
- Eriksson, C.E., and Vallentin, K. (1973). Thermal activation of peroxidase as a lipid oxidation catalyst. *J. Am. Oil Chem. Soc.*, 50(7), 264-268.
- Eshtiaghi, M.N., and Knorr, D. (1993). Potato cubes response to water blanching and high hydrostatic pressure. *J. Food Sci.*, 58, 1371-1374.
- Eshtiaghi, M.N., Stute, R., and Knorr, D. (1994). High pressure and freezing pre-treatment effects on drying, rehydration, texture and colour of green beans, carrots and potatoes. *J. Food Sci.*, 59, 1168-1170.
- Eskin, N.A., Grossman, S., and Pinsky, A. (1977). Biochemistry of lipoxygenase in relation to food quality. *CRC Crit. Rev. Food Sci. Nutr.*, 9(1), 1-40.

- Esterbauer, H., Schwarzl, E., and Hayn, M. (1977). A rapid assay for catechol oxidase and laccase using 2-nitro-5-thiobenzoic acid. *Anal. Biochem.*, 77(2), 486-494.
- Farr, D. (1990). High pressure technology in the food industry. *Trends Food Sci. Technol.*, 1, 14-16.
- Flurkey, W.H., and Jen, J.J. (1978). Peroxidase and Polyphenoloxidase activities in developing peaches. *J. Food Sci.*, 43, 1826-1828, 1831.
- Fuchigami, M., Kato, N., and Teramoto, A. (1997). High-pressure-freezing effects on textural quality of carrots. *J. Food Sci.*, 62(4), 804-812.
- Fujita, S., Saari, N., Maegawa, M., Tetsuka, T., Hayashi, N. and Tono, T. (1995). Purification and properties of Polyphenoloxidase from cabbage (*Brassica oleracea* L.). *J. Agric. Food Chem.*, 43, 1138-1142.
- Funtenberger, S., Dumay, E., and Cheftel, J.C. (1995). Pressure induced aggregation of β -lactoglobulin in pH 7.0 buffers. *Lebensm.-Wiss. u.-Technol.*, 28, 410-418.
- Galazka, V.B., Dickinson, E., and Ledward, D.A. (1996). Effect of high pressure on the emulsifying behaviour of β -lactoglobulin. *Food Hydrocolloids.*, 10, 213-219.
- Galazka, V.B., and Ledward, D.A. (1995). Developments in high pressure food processing. *Food Technol. Int. Europe.*, 123-125.
- Gandía-Herrero, F., García-Carmona, F., and Escribano, J. (2004). Purification and characterisation of a latent polyphenoloxidase from beet root (*Beta vulgaris* L.). *J. Agric. Food Chem.*, 52, 609-615.
- Gomes, M.R.A. (1997). *Effects of high pressure treatment on polyphenoloxidases, papain, and amylases*. Ph.D. thesis, The University of Reading, Reading, UK.
- Gomes, M.R.A. and Ledward, D.A. (1996). Effect of high pressure treatment on the activity of some polyphenoloxidases. *Food Chem.*, 56, 1-5.
- Gould, G.W. (2001). The evolution of high pressure processing of foods. In M.E.G. Hendrickx and D. Knorr (Eds.). *Ultra high pressure treatments of foods* (pp.3- 21), New York, Boston, Dordrecht, London, Moscow : Kluwer Academic / Plenum Publishers.

- Gow, C.Y., and Hsin, T.L.(1996). Comparison of high pressure treatment and thermal pasteurisation effects on the quality and shelf life of guava puree. *Int. J. Food Sci. Technol.*, 31, 205-213.
- Grab, W. (1998). Fruit flavours. in E. Ziegler and H. Ziegler (Eds.). *Blended flavourings*. (pp. 347-386) : Wiley-VCH.
- Greve, L.C., Shackel, K.A., Ahmadi, H., McArdle, R.N., Gohlke, J.R., and Labavitch, J.M. (1994). Impact of heating on carrot firmness : contribution of cellular turgor. *J. Agric. Food Chem.*, 42, 2896-2899.
- Griffiths, L.A.. (1959). Detection and identification of the polyphenoloxidase substrate of the banana. *Nature.*, 184, 58-59.
- Gross, M., and Jaenicke, R. (1994). Proteins under pressure. The influence of high hydrostatic pressure on structure, function and assembly of proteins and protein complexes. *Eur. J. Biochem.*, 221, 617-630.
- Grossman, S., Pinsky, A., and Goldweitz, Z. (1971). A convenient method for lipoxygenase isoenzyme determination. *Anal. Biochem.*, 44(2), 642-644.
- Haard, N.F. (1973). Upsurge of particulate peroxidase in ripening banana fruit. *Phytochem.*, 12, 555-560.
- Haard, N.F., and Timbie, D. (1973). Chilling injury in green banana fruit: changes in isoperoxidase associated with wall bound and soluble pools. *J. Food Sci.*, 38, 642-645.
- Hammer, F.E. (1993). Oxidoreductase. in T. Nagodawithana and G. Reed (Eds.), *Enzymes in food processing*. (pp. 221-277) : Academic Press, Inc.
- Harel, E., Mayer, A.M., and Shain, Y. (1964). Catechol oxidases from apples, their properties, subcellular location and inhibition. *Physiol. Plant.*, 17, 921-930.
- Harker, F.R., Redgwell, R.J., Hallett, I.C., and Murray, S.H. (1997). Texture of fresh fruit. *Hort. Rev.*, 20, 121-224.
- Harmon, A.D. (2002). Solid Phase Micro-extraction for the analysis of aromas and flavours. In R. Marsili (Ed.). *Flavour, fragrance, and odour analysis*. (pp. 75-106) : Marcel Dekker, Inc.
- Hatfield, S.G.S. and Knee, M. (1988). Effects of water loss on apples in storage. *Intl. J. Food Sci. Technol.*, 23, 575-585.

- Hawley, S.A. (1978). High pressure techniques. *Methods in Enzymol.*, 49, 14-25.
- Hayakawa, I., Kajihara, J., Morikawa, K., Oda, M., and Fujio, Y. (1992). Denaturation of bovine serum albumin (BSA) and ovalbumin by high pressure, heat and chemicals. *J. Food Sci.*, 57, 288-292.
- Hayakawa, I., Kanno, T., Yoshiyama, K., and Fujio, Y. (1994). Oscillatory compared with high pressures sterilisation on *Bacillus stearothermophilus* spores. *J. Food Sci.*, 59, 164-167.
- Hendrickx, M.E.G., Ludikhuyze, L.R., Van den Broeck, I., and Weemaes, C.A. (1998). Effects of high pressure on enzymes related to food quality. *Trends Food Sci. Technol.*, 9, 197-203.
- Heremans, K. (1982). High pressure effects on proteins and other biomolecules. *Ann. Rev. Biophys. Bioeng.*, 11, 1-21.
- Heremans, K. (1995). High pressure effects on biomolecules. in D.A. Ledward, D.E. Johnston, R.G. Earnshaw, and A.P.M. Hasting (Eds.), *High pressure processing of foods* (pp. 81-97), Nottingham, England : Nottingham University Press.
- Heremans, L., and Heremans, K. (1989). Raman spectroscopic study of the changes in the secondary structure of chymotrypsin:effect of pH and pressure on the salt bridge. *Biochim. Biophys. Acta.*, 999, 192-197.
- Hernández, A. and Cano, M.P. (1998). High pressure and temperature effects on enzyme inactivation in tomato puree. *J. Agric. Food Chem.*, 46, 266-270.
- Herzog, V., and Fahimi, H.D. (1973). A new sensitive colourimetric assay for peroxidase using 3,3'-diamino-benzidine as hydrogen donor. *Anal. Biochem.*, 55(2), 554-562.
- Hölters, C., Sojka, B., and Ludwig, H. (1997). Pressure-induced germination of bacterial spores from *Bacillus subtilis* and *Bacillus stearothermophilus*. in K. Heremans (Ed.), *High Pressure Research in the Biosciences and Biotechnology* (pp. 257-260) : Leuven University Press.
- Huang, S., Hart, H., Lee, H., and Wicker, L. (1990). Enzymatic and colour changes during post-harvest storage of lychee fruit. *J. Food Sci.*, 55(6), 1762-1763.

- Hwang, L.S., and Cheng, Y-C. (1986). Pink discolouration in canned lychees. in O.R. Fennema, W-H. Chang, and C-Y. Lii (Eds.). *Role of chemistry in the quality of processed food.* (pp. 96-107). Westport, Conn. USA : Food and Nutrition Press, Inc.
- Indrawati, I., Ludikhuyze, L.R., Van Loey, A.M., and Hendrickx, M.E.G. (2000). Lipoxygenase inactivation in green beans (*Phaseolus vulgaris* L.) due to high pressure treatment at subzero and elevated temperatures. *J. Agric. Food Chem.*, 48(5), 1850-1859.
- Indrawati, I., Van Loey, A.M., Ludikhuyze, L.R., and Hendrickx, M.E.G. (1999). Soybean lipoxygenase inactivation by pressure at subzero and elevated temperature. *J. Agric. Food Chem.*, 47(6), 2468-2474.
- Indrawati, I., Van Loey, A.M., Ludikhuyze, L.R., and Hendrickx, M.E.G. (2001). Pressure temperature inactivation of lipoxygenase in green peas (*Pisum sativum*) : a kinetic study. *J. Food Sci.*, 66(5), 686-692.
- Isaacs, N.S., Chilton, P., and Mackey, B. (1995). Studies on the inactivation by high pressure on microorganisms. in D.A. Ledward, D.E. Johnston, R.G. Earnshaw and A.P.M. Hasting (Eds.). *High pressure processing of foods* (pp. 65-79), Nottingham, UK : Nottingham University Press.
- Jackman, R.L., and Stanley, D.W. (1995). Creep behaviour of tomato pericarp tissue as influenced by ambient temperature ripening and chilled storage. *J. Text. Stud.*, 26, 537-552.
- Jaenicke, R. (1991). Protein stability and molecular adaptation to extreme conditions. *Eur. J. Biochem.*, 202, 715-728.
- Johnston, J.C., Welch, R.C., and Hunter, G.L.K. (1980). Volatile constituents of litchi (*Litchi chinensis* Sonn.). *J. Agric. Food Chem.*, 28, 859-861.
- Jolibert, F., Tonello, C., Sagegh, P., and Raymond, J. (1994). Les effets des hautes pressions sur la polyphenol oxydase des fruits. *Bios Boissons.*, 251, 27-35.
- Kahn, V. (1977). Some biochemical properties of polyphenoloxidase from two avocado varieties differing in their browning rates. *J. Food Sci.*, 42, 38-43.
- Kajiyama, N., Isobe, S., Uemura, K., and Noguchi, A. (1995). Changes of soy protein under ultra-high hydraulic pressure. *Int. J. Food Sci. Technol.*, 30, 147-158.

- Kato, N., Teramoto, A., and Fuchigami, M. (1997). Pectic substance degradation and texture of carrots as affected by pressurisation. *J. Food Sci.*, 62(2), 359-362, 398.
- Kay, E., Shannon, L.M., and Lew, J.Y. (1967). Peroxidase isozymes from horseradish roots. *J. Biol. Chem.*, 242, 2470-2473.
- Khan, A.A., and Vincent, J.F.V. (1990). Anisotropy of apple parenchyma. *J. Sci. Food Agric.*, 52, 455-466.
- Khan, A.A., and Vincent, J.F.V. (1993). Anisotropy in the fracture properties of apple flesh investigated by crack-opening tests. *J. Materials Sci.*, 28, 45-51.
- Kimura, K., Ida, M., Yosida, Y., Ohki, K., Fukumoto, T., and Sakui, N. (1994). Comparison of keeping quality between pressure-processed jam and heat-processed jam : changes in flavour components, hue, and nutrients during storage. *Biosci. Biotechnol. Biochem.*, 58, 1386-1391.
- Klapper, M.H., and Hackett, D.P. (1965). Investigations on the multiple components of commercial horseradish peroxidase. *Biochim. Biophys. Acta.*, 96, 272-282.
- Knorr, D. (1995). High pressure effects on plant derived foods. in D.A. Ledward, D.E. Johnston, R.G. Earnshaw, and A.P.M. Hasting (Eds.). *High Pressure Processing of Foods* (pp. 123-135). Loughborough, UK : Nottingham University Press.
- Koning, R.E. (1994). *The Unit of life* [Online]. Available: <http://koning.ecsu.ctstateu.edu/Plants-Human/unitlife.html> [2005, July 19].
- Krall, S.M. and McFeeters, R.F. (1998). Pectin hydrolysis : effect of temperature, degree of methylation, pH, and calcium on hydrolysis rates. *J. Agric. Food Chem.*, 46, 1311-1315.
- Krebbers, B., Matser, A.M., Hoogerwerf, S.W., Moezelaar, R., Tomassen, M.M.M., and van den Berg, R.W. (2003). Combined high pressure and thermal treatments for processing of tomato puree : evaluation of microbial inactivation and quality parameters. *Innovative Food Sci. and Emerging Technologies.*, 4, 377-385.
- Lanzarini, G., Pifferi, P.G., and Zamorani, A. (1972). Specificity of an o-diphenol oxidase from *Prunus avium* fruits. *Phytochem.*, 11, 89-94.

- Lapsley, K.G., Escher, F.E., and Hoehn, E. (1992). The cellular structure of selected apple varieties. *Food Structure.*, 11, 339-349.
- Lea, J.M., Grimm, C.C., and Beaulieu, J.C. (2001). Are flavour aldehydes in cantaloupe endogenous or secondary compounds ?. *Session 44 C, Fruit and Vegetable products : Chemistry.* IFT Annual Meeting-New Orleans, Louisiana.
- Leadley, C.E., and Williams, A. (1997). High pressure processing of food and drink-an overview of recent developments and future potential. *New Technologies, Bull.*, 14 (March)., CCFRA, Chipping Campden, Glos, UK.
- Lee, J.H., Kang, J.H., and Min, D.B. (2003). Optimisation of Solid Phase Micro-extraction for the analysis of the headspace volatile compounds in Kimchi a traditional Korean fermented vegetable product. *J. Food Sci.*, 68(3), 844-848.
- Leffingwell, J.C. (2005). *Chirality and Odour perception* [Online]. Available: <http://www.leffingwell.com/chirality/roseoxide.htm> [2005, August 10].
- Lopez-Malo, A., Palou, E., Barbosa-Canovas,G.V., Welti-Chanes, J.,and Swanson, B.G.(1998). Polyphenoloxidase activity and colour changes during storage of high hydrostatic pressure treated avocado puree. *Food Res. Int.*, 31(8), 549-556.
- Lu, A.T., and Whitaker, J.R. (1974). Some factors affecting rates of heat inactivation and reactivation of horseradish peroxidase. *J. Food Sci.*, 39, 1173-1177.
- Ludikhuyze,L.R., Claeys,W., and Hendrickx, M.E.G. (2001b). Effect of temperature and pressure on lactoperoxidase activity an bovine milk and acid whey. *J. Dairy Res.*, 68(4), 625-637.
- Ludikhuyze, L.R., and Hendrickx, M.E.G. (2001). Effects of high pressure on chemical reactions related to food quality. in M.E.G. Hendrickx and D. Knorr (Eds.). *Ultra high pressure treatments of foods* (pp. 167-188), New York, Boston, Dordrecht, London, Moscow:Kluwer Academic / Plenum Publishers.

- Ludikhuyze, L.R., Indrawati, I., Van den Broeck, I., Weemaes, C.A., and Hendrickx, M.E.G. (1998a). Effect of combined pressure and temperature on soybean lipoxygenase. 1. Influence of extrinsic and intrinsic factors on isobaric-isothermal inactivation kinetics. *J. Agric. Food Chem.*, 46(10), 4074-4080.
- Ludikhuyze, L.R., Indrawati, I., Van den Broeck, I., Weemaes, C.A., and Hendrickx, M.E.G. (1998b). Effect of combined pressure and temperature on soybean lipoxygenase. 2. Modeling inactivation kinetics under static and dynamic conditions. *J. Agric. Food Chem.*, 46(10), 4081-4086.
- Ludikhuyze, L.R., Van Loey, A.M., Indrawati, I., Denys, S., and Hendrickx, M.E.G. (2001a). Effects of high pressure on enzymes related to food quality. in M.E.G. Hendrickx and D. Knorr (Eds.). *Ultra high pressure treatments of foods* (pp. 115-166), New York, Boston, Dordrecht, London, Moscow: Kluwer Academic / Plenum Publishers.
- Luh, B.S., Leonard, S.J., and Patel, D.S. (1960). Pink discolouration in canned Bartlett pears. *Food Technol.*, 14, 53-56.
- Mackey, B.M., Forestiere, K., and Isaacs, N.S. (1995). Factors affecting the resistance of *Listeria monocytogene* to high hydrostatic pressure. *Food Biotechnol.*, 9, 1-11.
- Marklund, S. (1971). Hydroxymethylhydroperoxide as inhibitor and peroxide substrate of horseradish peroxidase. *Eur. J. Biochem.*, 21, 348-354.
- Martin, W., and Ruberté, R. (1975). The polyphenol of *Dioscorea alata* (yam) tubers associated with oxidative browning. *J. Agric. Food Chem.*, 24, 67-70.
- Matsuda, H., and Yamamoto, T. (1999). U.S. Patent No 5,858,348, Jan. 12 [Online]. Available: <http://www.leffingwell.com/chirality/roseoxide.htm> [2005, August 10].
- Mayer, A.M., Harel, E., and Ben-Shaul, R. (1966). Assay of catechol oxidase-a critical comparison of methods. *Phytochem.*, 5, 783-789.
- Mazzocco, F., and Pifferi, P.G. (1976). An improvement of the spectrophotometric method for the determination of tyrosinase catecholase activity by Besthorn's hydrazone. *Anal. Biochem.*, 72, 643-647.

- McGee,T., and Purzycki, L. (2002). Headspace techniques for the reconstitution of flower scents and identification of new aroma chemicals. in R. Marsili (Ed.). *Flavour, fragrance, and odour analysis.* (pp. 249-276) : Marcel Dekker, Inc.
- Mclellan, K.M., and Robinson, D.S. (1981). The effect of heat on cabbage and Brussels sprout peroxidase enzymes. *Food Chem.*, 7, 257-266.
- McQueen-Mason, S., and Cosgrove, D.J. (1994). Disruption of hydrogen-bonding between plant-cell wall polymers by proteins that induce wall extension. *Proc. Natl. Acad. Sci. U.S.A.*, 91, 6574-6578.
- Menzel, C.M. (2002). *The lychee crop in Asia and the Pacific*.FAO Regional office for Asia and the Pacific. Bangkok, Thailand : RAP Publication.
- Menzel, C.M., Watson, B.J., and Simpson, D.R. (1988). The lychee in Australia. *Queensl. Agric. J.*, (January-February), 19-27.
- Mermelstein, N.H. (1997). High pressure processing reaches the US market. *Food Technol.*, 51, 95-96.
- Mermelstein, N.H. (1999). High pressure pasteurisation of juice. *Food Technol.*, 53, 86-90.
- Meyer, R.S. (2000). *Ultra high pressure, high temperature food preservation process*. US Patent 6017572. Tacoma, WA 98443, USA.
- Min, D.B., Callison, A.L., and Lee, H.O. (2003). Singlet oxygen oxidation for 2-pentyl furan and 2-pentenyl furan formation in soybean oil. *J. Food Sci.*, 68(4), 1175-1178.
- Moio, Langlois, Etievant, and Addeo. (1993). *Ital. J. Food Sci.* 3, 227-237 [Online]. Available: <http://www.flavournet.org/info/3033-23-6.htm> [2005, August 10].
- Morishima, I., Kurono, M., and Shiro, Y. (1986). Presence of endogenous calcium ion in horseradish peroxidase. *J. Biol. Chem.*, 261, 9391-9399.
- Morton, J.F. (1987). Lychee. in J.F. Morton and F.L. Miami (Eds.), *Fruits of warm climates* (pp. 249-259).
- Mozhaev, V.V., Heremans, K., Frank, J., Masson, P., and Balny, C.(1994). Exploiting the effects of high hydrostatic pressure in biotechnological applications. *Trends Biotechnol.*, 12, 493-501.

- Musingo, M.N., and Wang, L. (2005). Influence of maceration methods on total phenolics, colour and lees characteristics during fermentation of red wine made from frozen muscadine grape (*Vitis Rotundifolia*). *Eur. J. Biochem.*, 6(4), 5-16.
- Nagai, T., and Suzuki, N. (2003). Polyphenoloxidase from bean sprouts (*Glycine max* L.). *J. Food Sci.*, 68(1), 16-20.
- Nagle, N.E., and Haard, N.F.(1975). Fractionation and characterisation of peroxidase from ripe banana fruit. *J. Food Sci.*, 40, 576-579.
- Ng,A., and Waldron,K.W. (1997). Effect of steaming on cell chemistry of potatoes (*Solanum tuberosum* cv. Bintje) in relation to firmness. *J. Agric. Food Chem.*, 45, 3411-3418.
- Nickel, K.S., and Cunningham, B.A. (1969). Improved peroxidase assay method using leuco 2,3',6-trichloro-indophenol and application to comparative measurements of peroxidatic catalysis. *Anal. Biochem.*, 27(2), 292-299.
- Nielsen, G.S., Larsen, L.M., and Poll, L. (2004). Formation of volatile compounds in model experiments with crude leek (*Allium ampeloprasum* Var. *Lancelot*) enzyme extract and linoleic acid or linolenic acid. *J. Agric. Food Chem.*, 52(8), 2315-2321.
- O' Connor, J.P., and O' Brien, N.M. (1991). Significance of lipoxygenases in fruits and vegetables. in P.F. Fox (Ed.), *Food Enzymology*. (pp. 337-372). London, UK : Elsevier Applied Science.
- Ogawa, H. (1991). Effect of hydrostatic pressure on sterilisation of citric juice. in R. Hayashi (Ed.). *High Pressure Science for Food*. Kyoto : San-Ei Pub.
- Ogawa, H., Fukuhisa, K., and Fukumoto, H. (1992). Effect of hydrostatic pressure on sterilisation and preservation of citrus juice. in C. Balny, R. Hayashi, K. Heremans, and P. Masson(Eds.). *High pressure and biotechnology*, Colloque INSERM. (Vol. 224, pp. 269-278). Montrouge: John Libbey Eurotext.
- Ogawa, H., Fukuhisa, K., Fukumoto, H., Hori, K., and Hayashi, R. (1989). Effect of hydrostatic pressure on sterilisation and preservation of freshly-squeezed, non-pasteurised citrus juice. *Nippon Nögeikagaku Kaishi.*, 63, 1109-1114.

- Ogawa, H., Fukuhisa, K., Kubo, Y., and Fukumoto, H. (1990). Pressure inactivation of yeasts, moulds and pectinesterase in Satsuma mandarin juice : Effects of juice concentration, pH and organic acids and comparison with heat sanitation. *Agric. Biol. Chem.*, 54, 1219-1225.
- Ogawa, S., Shiro, Y., and Morishima, I. (1979). Calcium binding by horseradish peroxidase C and the heme environmental structure. *Biochem. Biophys. Res. Comm.*, 90, 674-678.
- Ong, P.K.C., and Acree, T.E. (1998). Gas Chromatography/ Olfactory analysis of lychee (*Litchi chinensis* Sonn.). *J. Agric. Food Chem.*, 46(6), 2282-2286.
- Ong, P.K.C., and Acree, T.E. (1999). Similarities in the aroma chemistry of Gewürztraminer variety wines and lychee (*Litchi chinensis* Sonn.) fruit. *J. Agric. Food Chem.*, 47(2), 665-670.
- Otegbayo, B., Aina, J., Asiedu, R., and Bokanga, M. (2005). Microstructure of boiled yam(*Dioscorea* spp.) and its implication for assessment of textural quality. *J. Text. Stud.*, 36, 324-332.
- Oxen, P., and Knorr, D. (1993). Baroprotective effects of high solute concentrations against inactivation of *Rhodotorula rubra*. *Lebensm-wiss. u.- Technol.*, 26, 22-223.
- Palou, E., Lopez-Malo, A., Barbosa-Canovas,G.V., Welti-Chanes, J., and Swanson, B.G. (1999). Polyphenoloxidase activity and colour of blanched and high hydrostatic pressure treated banana puree. *J. Food Sci.*, 64, 42-45.
- Parish, M.E. (1998). Orange juice quality after treatment by thermal pasteurisation and isostatic high pressure. *Lebensm-wiss. u.- Technol.*, 31, 439-442.
- Parish, M.E., (1994). Isostatic high pressure processing of orange juice. in R. Ahvenainen,T. Mattila-Sandholm and T. Ohlsson (Eds.). *Minimal Processing of Foods*. (pp. 93-102). Finland : VTT.
- Patterson, M.F., Quinn, M., Simpson, R., and Gilmour, A. (1995). The sensitivity of vegetative pathogens to high hydrostatic pressure treatment in phosphate buffered saline and foods. *J. Food Prot.*, 58, 524-529.
- Pehrsson, P.E. (1996). Application of high-pressure pasteurisation to citrus processing. *Institute of Food Technologists ann. Meet.*, Book of abstracts. pp.108.

- Peleg, M., Gomez-Brito, L., and Malevski, Y. (1976). Compressive failure patterns of some juicy fruit. *J. Food Sci.*, 41, 1320-1324.
- Pifferi, P.G., and Baldassari, L. (1973). A spectrophotometric method for the determination of the catecholase activity of tyrosinase by Besthorn's hydrazone. *Anal. Biochem.*, 52(2), 325-335.
- Ponting, J.D., Bean, R.S., Notter, G.K., and Makower, B. (1954). Degree of heat inactivation of polyphenoloxidase and quality of frozen apricot puree. *Food Technol.*, 8, 573-575.
- Poretta, S., Birzi, A., Ghizzoni, C., and Vicini, E. (1995). Effects of ultra-high hydrostatic pressure treatments on the quality of tomato juice. *Food Chem.*, 52, 35-41.
- Prestamo, G., and Arroyo, G. (1998). High hydrostatic pressure effects on vegetable structure. *J. Food Sci.*, 63(5), 878-881.
- Quaglia, G.B., Gravina, R., Paperi, R., and Paoletti, F. (1996). Effect of high pressure treatments on peroxidase activity, ascorbic acid content and texture in green peas. *Lebensm.-Wiss. u.-Technol.*, 29, 552-555.
- Ramaswamy, R., Balasubramaniam, B., and Kaletunc, G. (2005). *High pressure processing : Fact sheet for food processors* [Online]. Available: <http://ohio-line.osu.edu/fse-fact/0001.htm> [2005, December 21].
- Ranganna, S., and Parpia, H.A.B. (1974a). Pink discolouration in canned banana (*Musa paradisiaca*) and field bean (*Dolichos lablab* var. *lignosus* Prain). I. Processing factors contributing to discolouration. *Lebensm.-Wiss. u.-Technol.*, 7, 101-110.
- Ranganna, S., and Parpia, H.A.B. (1974b). Pink discolouration in canned banana (*Musa paradisiaca*) and field bean (*Dolichos lablab* var. *lignosus* Prain). II. Chemical changes in leucoanthocyanidins during processing. *Lebensm.-Wiss. u.-Technol.*, 7, 111-119.
- Reed (2005). *Laboratory reference manual* [Online]. Available: <http://academic.reed.edu/chemistry/alan/201-202/lab-manual/Experiment-8/> [2005, August 17].
- Robb, D.A., Mapson, L.W., and Swain, T. (1965). On the heterogeneity of the tyrosinase of broad bean (*Vicia faba*). *Phytochem.*, 4, 731-740.

- Roberts, C.M., and Hoover, D.G. (1996). Sensitivity of *Bacillus coagulans* spores to combinations of high hydrostatic pressure, heat, acidity and nisin. *J. Appl. Bacteriol.*, 81, 363-368.
- Robinson, D.S., Wu, Z., Domoney, C., and Casey, R. (1995). Lipoxygenases and the quality of foods. *Food Chem.*, 65, 323-329.
- Rojas, A.M., Delbon, M., Maragoni,A.G., and Gerschenson,L.M. (2002).Contribution of cellular structure to the large and small deformation rheological behaviour of kiwi fruit. *J. Food Sci.*, 67, 2143-2148.
- Rovere, P. (2001). Industrial-Scale high pressure processing of foods. in M.E.G. Hendrickx and D. Knorr (Eds.). *Ultra high pressure treatments of foods* (pp. 251-268), New York, Boston, Dordrecht, London, Moscow : Kluwer Academic / Plenum Publishers.
- Sale, A.J.H., Gould, G.W., and Hamilton, W.A. (1970). Inactivation of bacterial spores by hydrostatic pressure. *J. Gen. Microbiol.*, 60, 323-334.
- Selli, S., Cabaroglu, T., and Canbas, A.(2004). Volatile flavour components of orange juice obtained from the cv. Kozan of turkey. *J. Food Com. Anal.*, 17, 789-796.
- Sethpakdee, R. (2004). Lychee production in Thailand. in M.K. Papademetrious and F.J. Dent (Eds.), *Production in the Asia-Pacific Region*, Bangkok, Thailand : RAP Publication.
- Seyderhelm, I., Boguslawski, S., Michaelis, G., and Knorr, D. (1996). Pressure induced inactivation of selected food enzymes. *J. Food Sci.*, 61(2), 308-310.
- Sheridan, P.M., and Mills, R.R. (1998). Presence of proanthocyanidins in mutant green *Sarracenia* indicate blockage in late anthocyanin biosynthesis between leucocyanidin and pseudobase. *Plant Sci.*, 135(1), 11-16.
- Shewfelt, A.L. (1975). Flavour and colour of fruits as affected by processing. in J.G. Woodroof and B.S. Luh (Eds.). *Commercial fruit processing*. (pp. 497). Westport, Conn : AVI Publishing Co.
- Shigehisha, T., Ohmori, T., Saito, A., Taji, S., and Hayashi, R. (1991). Effects of high hydrostatic pressure on characteristics of pork slurries and inactivation of microorganisms associated with meat and meat products. *Int. J. Food Microbiol.*, 12, 207-216.

- Shinsuke, F., Obuchi, K., Iwahashi, H., Fujii, T., and Komatsu, Y. (1996). Saccharides that protect yeast against hydrostatic pressure stress correlated to the mean number of equatorial OH groups. *Biosci. Biotech. Biochem.*, 60, 476-478.
- Shiro, Y., Kurono, M., and Morishima, I. (1986). Presence of endogenous calcium ion and its functional and structural regulation in horseradish peroxidase. *J. Biol. Chem.*, 261, 9382-9390.
- Simpson, R.K., and Gilmour, A. (1997). The effects of high hydrostatic pressure on *Listeria monocytogenes* in phosphate buffered saline and model food systems. *J. Appl. Microbiol.*, 83, 181-188.
- Smelt, J.P.P.M. (1998). Recent advances in the microbiology of high pressure processing. *Trends Food Sci. Technol.*, 9, 152-158.
- Smelt, J.P.P.M., Hellemons, J.C., and Patterson, M. (2001). Effect of high pressure on vegetative microorganisms. in M.E.G. Hendrickx and D. Knorr (Eds.). *Ultra high pressure treatments of foods* (pp. 55-76), New York, Boston, Dordrecht, London, Moscow:Kluwer Academic / Plenum Publishers.
- Smelt, J.P.P.M., Rijke, A.G.F., and Hayhurst, A. (1994). Possible mechanism of high pressure inactivation of microorganisms. *High Pressure Research.*, 12, 199-203.
- Smith, A.T., Santama, N., Dacey, S., Edwards, M., Bray, R.C., Thorneley, R.N.F., and Burke, J.E. (1990). Expression of synthetic gene for horseradish peroxidase C in *Escherichai coli* and folding and activation of the recombinant enzyme with Ca⁺⁺ and heme. *J. Biol. Chem.*, 265, 13335-13343.
- Smith, J.J., Linforth, R., and Tucker, G.A. (1997). Soluble lipoxygenase isoforms from tomato fruit. *Phytochem.*, 45(3), 456-458.
- Steele, N.M., McCann, M.C., and Roberts, K. (1997). Pectin modification in cell walls of ripening tomatoes occurs in distinct domains. *Plant Physiol.*, 114, 373-381.
- Stelzig,D.A., Akhtar,S., and Ribeiro, S. (1972). Catechol oxidase of Red delicious apple peel. *Phytochem.*, 11, 535-539.

- Sumitami, H., Suekane, S., Nakatani, A., and Tatsuka, K. (1994). Changes in the composition of volatile compounds in high pressure treated peach. *J. Agric. Food Chem.*, 42, 785-790.
- Surrey, K. (1964). Spectrophotometric method for determination of lipoxidase activity. *Plant Physiol.*, 39(1), 65-70.
- Svensson, S.G., and Eriksson, C.E. (1974). Thermal inactivation of lipoxygenase from peas (*Pisum sativum* L.) IV. Inactivation in whole peas. *Lebensm.-Wiss. u.-Technol.*, 7, 145-151.
- Szczawiński, J., Szczawińska, M., Stańczak, B., Fonberg-Broczek, M., Arabas, J., and Szczepek, J. (1997). Effect of high pressure of *Listeria monocytogenes* in ripened, slices cheese at ambient temperature. in K. Heremans (Ed.), *High Pressure Research in the Biosciences and Biotechnology* (pp. 295-298): Leuven University Press.
- Takahashi, Y., Ohta, H., Yonei, H., and Ifuku, Y. (1993). Microbial effect of hydrostatic pressure on Satsuma mandarin juice. *Int. J. Food Sci. Technol.*, 28, 95-102.
- Tamura, Y., and Morita, Y. (1975). Thermal denaturation and regeneration of Japanese-radish peroxidase. *J. Biochem.*, 78(5), 561-571.
- Tangwongchai, R. (2000). *Effect of high pressure treatment on lipoxygenase, pectin-methylesterase activity, flavour and texture of cherry tomatoes*. Ph.D. thesis, The University of Reading, Reading, UK.
- Tappel, A.L. (1962). Lipoxidase. *Methods in Enzymology.*, 5, 539-542.
- Tewari, G., Jayas, D.S.B., and Holley, R.A. (1999). High pressure processing of foods : An Overview. *Science des Aliments.*, 19, 619-661.
- Thomas, P., and Janave, M.T. (1973). Polyphenoloxidase activity and browning of mango fruits induced by gamma irradiation. *J. Food Sci.*, 38(7), 1149-1152.
- Thybo,A.K., Martens, H.J., and Lyshede, O.B. (1998). Texture and microstructure of steam cooked, vacuum packed potatoes. *J. Food Sci.*, 63(4), 692-695.
- Timson, W.J., and Short, A.J. (1965). Resistance of microorganisms to hydrostatic pressure. *Biotech. Bioeng.*, 7, 139-159.
- Tolbert, N.E.(1973). Activation of polyphenoloxidase of chloroplasts. *Plant Physiol.*, 51(2), 234-244.

- Tonello, C., Kesenne, S., Muterel, C., and Jolibert, F. (1997). Effect of high hydrostatic pressure treatments on shelf-life of different fruit products. in K. Heremans (Ed.) *High Pressure Research in the Biosciences and Biotechnology*. (pp. 439-442). Leuven, Belgium : Leuven University Press.
- Tong, C., Krueger, D., Vickers, Z., Bedford, D., Luby, J., El-Shiekh, A., Shackel, K., and Ahmadi, H. (1999). Comparison of softening-related changes during storage of "Honey-crisp" apple, its parents, and "Delicious". *J. Am. Soc. Hort. Sci.*, 124, 407-415.
- UK high pressure club for food processing (No date). *Food preservation and high pressure* [Online]. Available: <http://www.highpressure.org.uk/science.htm> [2002, April 11].
- USDA Nutrient database for standard reference (No date). *Litchis, raw. Lychees online.com* [Online]. Available: http://www.lycheesonline.com/usdalycbee_nutrition.cfm [2005, July 18].
- Vámos-Vigyázó, L. (1981). Polyphenoloxidase and peroxidase in fruits and vegetables. *CRC Crit. Rev. Food Sci. Nutr.*, 15, 49-127.
- Vámos-Vigyázó, L., Farkas, J., and Babos-Szebenyi, E. (1980). A study into some properties of peroxidase in vegetable. *Acta Alimentaria.*, 9, 11-21.
- Vámos-Vigyázó, L., Mihályi, K., and Farkas, J. (1979). Kohlrabi peroxidase : kinetics, heat inactivation and reactivation. *Confructa.*, 24, 38-52.
- Van Buren, J.P. (1979). The chemistry of texture in fruits and vegetables. *J. Text. Stud.*, 10, 1-23.
- Van Buren, J.P., and Pitifer, L.A. (1992). Retarding vegetable softening by cold alkaline pectin de-esterification before cooking. *J. Food Sci.*, 57, 1022-1023.
- Van Loey, A.M., Ooms, V., Weemaes, C.A., Van den Broeck, I., Ludikhuyze, L.R., Indrawati, I., Denys, S., and Hendrickx, M.E.G. (1998). Thermal and pressure -temperature degradation of chlorophyll in broccoli (*Brassica oleracea* L. *italica*) juice :A kinetic study. *J. Agric. Food Chem.*, 46, 5289-5294.
- Vliegenthart, J.F.G., and Veldink, G.A. (1982). Lipoxygenase. in W.A. Pryor (Ed.), *Free radicals in biology*. (pp. 29-64) : Academic Press, Inc.
- Waldron, K.W., Parker, M.L., and Smith, A.C. (2003). Plant cell walls and food quality. *Comprehensive reviews in Food Sci. Food safety.*, 2, 101-119.

- Waldron, K.W., Smith, A.C., Parr, A.J., Ng, A., and Parker, M.L. (1997). New approaches to understanding and controlling cell separation in relation to fruit and vegetable texture. *Trends in Food Sci. Technol.*, 8, 213-221.
- Walker, J.R.L. (1975). Enzymic browning in food. A review. *Enzyme Technol. Dig.*, 4(3), 89-100.
- Watanabe, M., Arai, E., Kumeno, K., and Homma, K. (1991). A new method for producing non-heated jam sample : The use of freeze concentration and high pressure sterilisation. *Biol. Chem.*, 55, 2175-2176.
- Weemaes, C.A., Ludikhuyze, L.R., Van den Broeck, I., and Hendrickx, M.E.G. (1998a). High pressure inactivation of polyphenoloxidases. *J. Food Sci.*, 63, 873-877.
- Weemaes, C.A., Ludikhuyze, L.R., Van den Broeck, I., and Hendrickx, M.E.G. (1998b). Effect of pH on pressure and thermal inactivation of avocado polyphenoloxidase : A kinetic study. *J. Agric. Food Chem.*, 46, 2785-2792.
- Weemaes, C.A., Ludikhuyze, L.R., Van den Broeck, I., and Hendrickx, M.E.G. (1999b). Influence of pH, benzoic acid, glutathione, EDTA, 4-hexyl-resorcinol, and sodium chloride on the pressure inactivation kinetics of mushroom polyphenoloxidase. *J. Agric. Food Chem.*, 47, 3526-3530.
- Weemaes, C.A., Ludikhuyze, L.R., Van den Broeck, I., and Hendrickx, M.E.G. (1999c). Kinetic study of antibrowning agents and pressure inactivation of avocado PPO. *J. Food Sci.*, 64, 826-827.
- Weemaes, C.A., Ludikhuyze, L.R., Van den Broeck, I., Hendrickx, M.E.G. and Tobbback, P.P. (1998c). Activity, electrophoretic characteristic and heat inactivation of polyphenoloxidases from apples, avocados, grapes, pears and plums. *Lebensm.-Wiss. u.-Technol.*, 31, 44-49.
- Weemaes, C.A., Ooms, V., Ludikhuyze, L.R., Van den Broeck, I., Van Loey, A.M., and Hendrickx, M.E.G. (1999a). Pressure-temperature degradation of green colour in broccoli juice. *J. Food Sci.*, 64, 504-508.
- Weinryb, I. (1966). The behaviour of horseradish peroxidase at high hydrogen peroxide concentrations. *Biochem.*, 5(6), 2003-2008.

- Welinder, K.G. (1979). Amino acid sequence studies of horseradish peroxidase. amino and carboxyl termini, cyanogens bromide and tryptic fragments, the complete sequence, and some structural characteristics of horseradish peroxidase *C. Eur. J. Biochem.*, 96, 483-502.
- Whitaker, J.R. (1985). Mechanisms of oxidoreductases important in food component modification. in T. Richardson and J.W. Finley (Eds.), *Chemical changes in food during processing*. (pp.121). India : CBS Publishers and Distributors.
- Whitaker, J.R. (1991). Lipoxygenases. in D.S. Robinson and N.A.M. Eskin (Eds.), *Oxidative Enzymes in Foods*. (pp.175-215). London, UK : Elsevier Applied Science.
- Whitaker, J.R. (1994). Principles of enzymology for the food science. *Trends Food Sci. Technol.*, 5(9), 304-305.
- Whitaker, J.R. (1995). Polyphenoloxidase. in D.W.S. Wong (Ed.). *Food Enzymes : Structure and Mechanism*. (pp. 271-307). New York : Chapman and Hall.
- Wong, D.W.S. (1995a). Horseradish peroxidase. in D.W.S. Wong (Ed.). *Food Enzymes : Structure and Mechanism*. (pp. 321-345). New York : Chapman and Hall.
- Wong, D.W.S. (1995b). Lipoxygenase. in D.W.S. Wong (Ed.), *Food enzymes : Structures and Mechanism*. (pp. 237-270). New York : Chapman and Hall.
- Wong, P.T.T., and Heremans, K. (1988). Pressure effects on protein secondary structure and hydrogen deuterium exchange in chymotrypsinogen : a Fourier transform infrared spectroscopic study. *Biochim. Biophys. Acta.*, 956, 1-9.
- Wu, M.C., and Chen, C.S. (1999). A research note: Effect of sugar types and citric acid content on the quality of canned lychee. *J. Food Qual.*, 22, 461-469.
- Wu, J.S-B., and Sheu, M-J. (1996). Tropical fruits. in L.P. Somogyi, D.M. Barrett, and Y.H. Hui (Eds.), *Major Processed Products* (pp. 387-417), USA : Technomic Publishing Company, Inc.
- Wüst, M., Rexroth, A., Beck, T., and Mosandl, A. (1998). Mechanistic aspects of the biogenesis of rose oxide in *Pelargonium graveolens* L'Héritier. *Chirality.*, 10(3), 229-237.

- Wuytack, E., Soons, J., and Michiels, C. (1997). Rapid measurement of pressure induced germination of *Bacillus subtilis* spores expressing green fluorescent protein. in K. Heremans (Ed.), *High Pressure Research in the Biosciences and Biotechnology* (pp. 261-264) : Leuven University Press.
- Yen, G-C., and Lin, H-T. (1996). Comparison of high pressure treatment and thermal pasteurisation effects on the quality and shelf life of guava puree. *Int. J. Food Sci. Technol.*, 31, 205-213.
- Yen, G-C., and Lin, H-T. (1999). Changes in volatile flavour components of guava juice with high pressure treatment and heat processing and during storage. *J. Agric. Food Chem.*, 47(5), 2082-2087.
- Zdunek, A., and Umeda, M. (2005). Influence of cell size and cell wall volume fraction on failure properties of potato and carrot tissue. *J. Text. Stud.*, 36, 25-43.
- Zdunek, A., Umeda, M., and Konstankiewicz, K. (2004). Method of parenchyma cells parametrisation using fluorescence images obtained by confocal scanning laser microscope. *Electronic Journal of Polish Agricultural Universities.*, 7(1).