

## REFERENCES

- Adair, S.E. (1997). Mechanisms affecting the growth and distribution of deepwater macrophytes in coastal wetlands. Utah State Univ., PhD Diss.
- Agrawal, A. and Mohan Ram, H. Y. (1995). *In vitro* germination and micropropagation of water chestnut (*Trapa* sp.). *Aquatic Botany* **51**: 135-146.
- Albers, M.R.J. and Kunneman, B.P.A.M. (1992). Micropropagation of *Paeonia*. *Acta Hort.* **314**: 85-92.
- Alistock, S. and Shafer, D. (2006). Applications and limitations of micro propagation for the production of underwater grasses. <http://www.kitchenculturekit.com>. Cited 14 January 2008.
- Allen, L.H. and Haskell, M. (2002). Estimating the potential for vitamin A toxicity in women and young children. Proceedings of the XX International Vitamin A Consultative Group Meeting. *J. Nutr.* **132**: 2907S-2919S.
- An, B.Y. (2005). Studies on the establishment of *in vitro* regeneration system of *Paeonia suffruticosa* Andr. Northeast For. Univ., MS Thesis.
- Arber A. (1920). Water Plants: A study of aquatic angiosperms. Cambridge University Press, London. Pp 436.
- Arunyanart, S.** (1998). *In vitro* culture of lotus (*Nelumbo nucifera* Geartn.). *J. Jap. Soc. Hort. Sci.* **67** (Suppl.): 257.
- Arunyanart, S. and Chaitrayagun, M.** (2005). Induction of somatic embryogenesis in lotus (*Nelumbo nucifera* Geartn.). *Scientia Horticulturae* **105**(3): 411-420.
- Aydieh, A.A., Ebrahim, M.K.H. and Ibrahim, I.A., (1999). Propagation and fruiting of pineapple (*Ananascomosus* L. Merr.) through tissue culture techniques. Egypt. *J. Physiol. Sci.* **23**: 213-228.
- Azevedo-Meleiro, C. H. and Rodriguez-Amaya, D. B. (2005). Carotenoid composition of kale as influenced by maturity, season and minimal processing. *Journal of Science of Food and Agriculture* **85**: 591-597.

Bandara, J.M.R.S., D.M.A.N. Senevirathna, D.M.R.S.B. Dasanayake, V. Herath, J.M.R.P. Bandara, T. Abeysekara, and Rajapaksha, K.H. (2007). Chronic renal failure among farm families in cascade irrigation systems in Sri Lanka associated with elevated dietary cadmium levels in rice and freshwater fish (Tilapia). *Environ Geochem Health* (online).

Barclay A.M. and Crawford R.M.M. (1982). Plant growth and survival under strict anaerobiosis. *Journal of Experimental Botany* **33**:541-549.

Barkman, T. J., Chench, G., McNeal, J. R., Lyons-Weiler, J., Ellisens, W. J., Moore, G., Wolfe, A. D. and dePamphilis, C. W. (2000). Independent and combined analyses of sequences from all three genomic compartments converge on the root of flowering plant phylogeny. *Proc. Natl. Acad. Sci. U.S.A.* **97**: 13166–13171.

Benkeblia, N. (2004). Antimicrobial activity of essential oil extracts of various onion (*Allium cepa*) and garlic (*Allium sativum*). *Turk J. Biol.* **37**:263-268.

Bensky, D., Clavey, S. and Stoger, E. (2004). Materia Medica. *Eastlend Press Inc, USA.* **3**:193-194.

Beruto, M., Lanteri, L. and Portogallo, C. (2004). Micropropagation of tree peony (*Paeonia suffruticosa*). *Plant Cell Tissue Organ Cult.* **79**:249-255.

Bhojwani, S.S. and Radzlan, M.K. (1983). Developments in crop science (5). Plant tissue culture: Theory and Practise. Amsterdam: Elsevier Science Publication BV, The Netherlands.

Blaylock A.J. and Seymour, R.S. (2000). Diaphragmatic nets prevent water invasion of gas canals in *Nelumbo nucifera*, *Aquat. Bot.* **67**:53-59.

Bloom et al. (1990). Adaptations to flooding in plants from river areas. *Aquatic Botany* **38**:29-47.

Bohmer, H. (2002). Koekboya, natural dyes and textiles: a colour journey from Turkey to India and beyond. Remhob-Verag, Ganderkesee.

Borsch, T. and Barthlott, W. (1994). Classification and distribution of the genus *Nelumbo* Adans (Nelumbonaceae). *Betrage zur Biologie der Pflanzen.* **68:** 421-450.

Bose, A., Mondal, S., Gupta, J.K. and Ghosh, T. (2007). A study on antimicrobial activity of *Cleome rutidosperma* D.C. *Journal of Natural remedies.* **7:**132-134.

Botella-Pavia, P., Besumbes, O., Phillips, M.A., Carretero-Paulet, L., Boronat, A. and Rodriguez-Concepcion, M. (2004). Regulation of carotenoid biosynthesis in plants: Evidence for a key role of hydroxymethylbutenyl diphosphate reductase in controlling the supply of plastidial isoprenoids precursors. *Plant J.* **40:** 188-199.

Britton, G., Liaaen-Jensen, S. and Pfander, H. (1995). Carotenoids. Vol. 1A: Isolation and analysis. Birkhauser Verlag, Boston.

Brock, M.A., Nielsen, D.L. and Crossle, K. (2005). Changes in biotic communities developing from freshwater wetland sediments under experimental salinity and water regimes. *Freshw. Biol.* **50:** 1376–1390.

Burkhardt, P.K., Beyer, P., Wunn, J., Kloti, A., Armstrong, G.A., Potrykus, I. and Yon-Lintig, J. (1997). Transgenic rice (*Oryza sativa*) endosperm expressing daffodil (*Narcissus pseudonarcissus*) phytoene synthase accumulates phytoene, a key intermediate of provitamin A biosynthesis. *Plant J.* **11:** 1071-1078.

Calbiani, F., Careri, M., Elviri, L., Mangia, A., Pistara, L. and Zagnoni, I. (2004). Development and in-house validation of a liquid chromatography–electrospray–tandem mass spectrometry method for the simultaneous determination of Sudan I, Sudan II, Sudan III and Sudan IV in hot chilli products. *J. Chromatography. A* (1042) 123-130.

Chandrika, U. G. (2009). Carotenoid dyes - properties. In: Bechtold, T. and Mussak, R. (Ed.). *Handbook of natural colorants.* John Wiley & Sons Ltd, United Kingdom. Pp. 221-234.

Chinese Ministry of Health (2002) Notice on further control the materials of health care.

Chinese Pharmacopoeia Committee (2005) China Pharmacopoeia. Pp 193-195.

Chomachalow, N. (ed) (2007). Amazing Thai lotus. Hort. Sci.Soc. Thailand, Bangkok.

Chomachalow, N. (2004). Flower forcing for cut flower production with special reference to Thailand. AU J. T. 7:137-144.

Chong, Y. X., Hu, H.Y. and Qian, Y. (2004). Advances in utilization of macrophytes in water pollution control, Tech. Equip. Env. Pol. Contr. **4** : 36–40.

Christensen, C. (1996). Tropical aquarium plants Denmark. Aquaphyte online: University of Florida. <http://www.tropica.dk>. Cited 10 January 2008.

Chu, I.Y.E. and Kurtz, S.L. (1990). Commercialization of plant micropropagation . In Ammirato, P.V., Evans, D.A. Sharp, W.R., and Bajaj, Y.P.S. (eds), *Handbook of plant cell culture. Ornamental species*. Vol 5. New York; McGraw-Hill Publication Co. pp126-158.

Chu, S.E., (1966). Studies on tissue culture of Hevea brasiliensis. I. Role of osmotic concentrationcarbohydrate and pH value in induction of callus growth in plumule tissue from Hevea seedling.*J. Rubber Res. Inst. Malya* **19**: 272-276.

Cornwell, D.A., Zoltek, Jr. J., Patrinely, C.D., Furman T.S. and Kim, J. I. (1977). Nutrient removal by water hyacinths. *J. Water Pollut. Control Fed.* **70**: 57-65.

Creamer, J. (2008). **AU lotus research yields new offerings for flower enthusiasts.** News College Agri., Auburn Univ., Alabama Agr. Expt. Sta. 8 April 2008.

Cunningham, F.X. Jr. and Gantt, E. (1998). Genes and Enzymes of carotenoid biosynthesis in plants. *Ann. Rev. Plant Mol. Biol.* **49**: 557-583.

Dantu, P.K. and Bhojwani, S.S. (1987). *In vitro* propagation and corm formation in gladiolus. *Gartenbauwissenschaften* **52**:90-93, 1987.

Davis, J., Horwitz, P., Norris, R., Chessman, B., McGuire, M. and Sommer, B. (2006). Are river bioassessment methods using macroinvertebrates applicable to wetlands? *Hydrobiologia* **572**: 115–128.

De Klerk, G.J., W. Krieken, and van der Jong, J.C. (1999). The formation of adventitious roots: new concepts, new possibilities. In *Vitro Cell. Dev. Biol. - Plant.* **35**:189-199.

Debergh, P.C., (1983). Effects of agar brand and concentration on the tissue culture medium. *Physiol. Plant* **59**, 270-276.

DellaPenna, D. (1999). Nutritional genomics: manipulating plant micronutrients to improve human health. *Science* **285**: 375-379.

Di Donna, L. Maiuolo, L. Mazzotti, F. De Luca, D. and Sindona, G. (2004). Assay of Sudan I contamination of foodstuff by atmospheric pressure chemical ionization tandem mass spectrometry and isotope dilution. *Anal. Chem.* **76**: 5104-5108.

Dong, Y.C. and Zheng, D.S. (2005). Summary of National Key Agriculture Wild Plant Protection. Chinese Meteorologic Publishing Company, Beijing, pp. 122.

Ebrahim, M.K.H., Zingsheim, O., Veith, R., Abo-Kassem, E.E.M. and Komor, E., (1999). Sugar uptake and storage by sugarcane suspension cells at different temperatures and high sugar concentrations. *J. Plant Physiol.* **154** :610-616.

Ebrahimpour, M. and Mushrifah, I. (2008). Heavy metal concentrations (Cd, Cu and Pb) in five aquatic plant species in Tasik Chini, Malaysia. *Environ. Geol.* **54**:689-698.

El-Zifza®, M.M.A., (1998). Propagation of *Maranta leuconeura* and *Platycerium bifurcatum* through tissue culture techniques. M.Sc. Thesis. Faculty of Agriculture, Cairo University, Egypt.

Evans, D.A. and Sharp, W.R. (1986). In: *In Vitro of Higher Plants*. By: Pierik R.L.M. (1987) (ed.) Martinus Nijhoff Publishers, Dordrecht. pp 217-245.

Ferreira, E., Hulme, A., McNab, H. and Quye, A. (2004). The natural constituents of historical textile dyes. *Chem. Soc. Rev.* **33**:329-336.

Follett, J.M. and Douglas, J.A. (2003). Lotus root: production in Asia and potential for New Zealand. *Combined Proc. Int'l. Plant Prop. Soc.* **53**:79-83.

Francko, D.A. (1986a). Studies on *Nelumbo lutea* (Willd.) pers. I. Techniques for axenic liquid seed culture. *Aquat. Bot.* **26**:113-117.

Francko, D.A. (1986b). Studies on *Nelumbo lutea* (Willd.) Pers. II. Effects of pH on photosynthetic carbon assimilation. *Aquat. Bot.* **26**:119-127.

Gamborg, O.L. and Philips, G.C. (1995). Eds. Plant Cell, Tissue and Organ Culture-food. DHeidilberg, New York : Springer-Verlag. pp 35-67.

Gamborg, O.L., Miller, R.A. and Ojima, K. (1968). Nutrient requirements of suspension cultures of soybean root cells. *Expt. Cell. Res.* **50**:151-158.

Gasper, T., Kevers, C., Debergh, P., Maene, L., Paques, M. and Boxus, P. (1987). Vitrification: Morphological, physiological and ecological aspects. In: Bonga, J.M., Durzan, D.J. (Eds) Cell and Tissue Culture in Forestry, Vol 1. Martinus Nijhoff Publishers, Dordrecht, Holland. Pp 152-166.

George, E.F. (1993). Plant Propagation by Tissue Culture. England: Bassingstoke. Exergetics Ltd. Pp 709.

Gautheret, R.J. (1959). La culture des tissus vegetaux: techniques et realizations. Masson Edit. Paris. Pp 863.

Godwin, H. and Willis, E.H. (1964). The viability of lotus seeds (*Nelumbium nucifera*, Gaertn.). *New Phytologist*. **63**:410-412.

Gonzalez-Lamothe, R., Mitchell, G., Gatusso, M., Moussa, S., Malouin, D.F. and Bouarab, K. (2009). Plant antimicrobial agents and their effects on plant and human pathogens. *International Journal of Molecular Science* **10(8)**: 3400-3419.

Goodman, A. M., Ganf, G. G., Dandy, G. C., Maier, H. R. and Gibbs, M. S. (2010). The response of freshwater plants to salinity pulses. *Aquatic Botany* **93**: 59–67.

Gumbrecht, T. (1993). Nutrient removal processes in freshwater submersed macrophyte systems. *Ecol. Eng.* **2**: 1–30.

Guo H.B (2008). Cultivation of lotus (*Nelumbo nucifera* Gaertn. ssp. *nucifera*) and utilization in China. *Gener Resource Crop Evol* **56**:323-330.

Habib, A., D.J. Donnelly, and D'Aoust. L. (2001). Micropropagation of herbaceous peony. *Amer. Peony Soc. Bul.* **319**:19-24.

Hailer, W. T. and Sutton, D.L. (1973). Effect of pH and high phosphorus concentration on growth of water hyacinth. *Hyacinth Control J.* **11**: 59-63.

Han, Y.C., Teng, C.Z., Chang, F.H., Robert, G.W., Zhou, M.Q., Hu, Z.L. and Song, Y.C. (2007). Analyses of genetic relationships in *Nelumbo nucifera* using nuclear ribosomal ITS sequence data, ISSR and RAPD markers. *Aquatic Botany* **87**: 141–146.

Hart, B.T., Lake, P.S., Webb, J.A. and Grace, M.R. (2003). Ecological risk to aquatic systems from salinity increases. *Aust. J. Bot.* **51**:689–702.

Hartman, H.T., Kester, D.E. and Davies Jr., F.T. (1990). Plant propagation: Principles and practices. Fifth Edition. Prentice Hall International, Inc. New Jersey.

He, G.M. (2006). Studies on distant cross-breeding and embryo in vitro culture and somatic embryogenesis in tree peonies. Beijing For. Univ., PhD Diss.

He, Z.S. and Liu, S.J. (1987). Culture of the shoot tip explants of lotus, *Nelumbo nucifera*. *Acta Hydrobiol. Sinica* **11**:191-193.

Hosoki, T. M. Ando. T. Kubara. M. Hamada, and Itami, M. (1989). In vitro propagation of herbaceous peony (*Paeonia lactiflora* Pall.) by a longitudinal shoot-split method. *Plant Cell Rpt.* **8**:243-246.

<http://www.victoria-adventure.org/>

Hu, G.W., K.M. Liu, and Lei, L.G. (2003). Advances in the systematics of *Nelumbo* Adans.and the establishment of Nelumbonaceae. *Acta Laser Biol. Sinica* **12**:416-420.

Huang, H.Y., Shih, Y.C. and Chen, Y.C. (2002). Determining eight colorants in milk beverages by capillary electrophoresis. *J. Chromatogr. A* **(959)**: 317-325.

Huang, L.C., Chang, Y.H. and Chang, Y.L. (1994). Rapid in vitro multiplication of the aquatic angiosperm, *Anubias barteri* var. *undulata*. *Aquatic Botany* **47**: 77-83.

Huang, S.Z., Tang, X.J., Zhang, L. and Fu, J.R. (2003). Thermotolerance and activity of antioxidative enzymes in lotus seeds. *J. Plant Physiol. Mol. Biol.* **29**:421-424.

Hui, Y.H. and Khacatourians, G.G. (1995). Food Biotechnology: Microorganisms. VSH Press. New York. Pp. 937.

IARC. (1975). Amaranth. In IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Some Aromatic Azo Compounds. International Agency for Research on Cancer, World Health Organization, Geneva. **Vol. 8**, pp 41–51.

Ibrahim, A.I. (1994). Effect of gelling agent and activated charcoal on the growth and development of *Cordyline terminalis* cultured in vitro. In: Proceedings of the First Conference of Ornamental Horticulture, **Vol. 1**, pp. 55-67.

James, K.R., Cant, B. and Ryan, T. (2003). Responses of freshwater biota to rising salinity levels and implications for saline water management: a review. *Aust. J. Bot.* **51**: 703–713.

Jiang, J.Z. and Cao, B.S. (2005) Cultivar types of aquatic vegetables and their utilization. *Chin Food Nutr* **9**:21-24

Joppen, J. (2003). Back to nature. *Food Engineering & Ingredients* (**28**): 12–13.

Kakuyama, H. and Ogawa, J. (1997). Culture condition for propagation and acclimatization of cultured plantlets in lotus (*Nelumbo nucifera* Gaertn.). *Bull. Tokushima Agric. Expt. Sta.* **33**:7-12.

Kanabkaew ,T. and Puetpaiboon, U. (2004). Aquatic plants for domestic wastewater treatment: Lotus (*Nelumbo nucifera*) and Hydrilla (*Hydrilla verticillata*) systems. *Songklanakarin J. Sci. Technol.* **26**:749-756.

Kane, M. E., Gilman, E. F. and Jenks, M. A. (1991). Regenerative capacity of *Myriophyllum aquaticum* tissues cultured in vitro. *J. Aquatic Plant Manage.* **29**: 102-109.

Kane, M.E., Gilman, E.F., Jenks, M.A. and Sheeran, T. (1990). Micropropagation of the aquatic plant *Cryptocoryne lucens*. *HortScience* **25(6)**: 687-689.

Kane, M.E., Sheeran, T.J. and Ferwerda, F.H. (1990). *In vitro* growth of American lotus embryos. *HortScience* **23(3)**: 611-613.

Kashiwada, M., Ashoshima, A and Ikeshiro, Y. (2005). Anti HIV benzylisoquinoline alkaloids from leaves of *Nelumbo nucifera* and structure activity correlations with related alkaloids. *Bioorg Med Chem.* **13**:443-448.

Ke, S.Q., Hong, S.R., Ni, X.M., Huang, R.H. and Wu, X.W. (1987a). Preliminary report of *Nelumbo lutea* explant culture in vitro. *Acta Hort. Sinica* **(3)**:208-212,218.

Ke, X.G., Zhang, W.S., Zhang, H.L., Xu, D.L. and Jiang, Z.M. (1987b). Experiments on employing honeybees for the pollination of fruiting lotus. *J. Fujian Agr. College* **16**:169-171.

Kefford, B., Dunlop, J., Nugegoda, D. and Choy, S. (2007). Understanding salinity thresholds in freshwater biodiversity: freshwater to saline transition. In: Lovett, S., Price, P., Edgar, B. (Eds.), Salt, Nutrient, Sediment and Interactions: Findings from the National River Contaminants Program. Land & Water, Australia.

Kim, M.H., Shin, J.H. and Sohn, J.K. (2006). Cryopreservation of somatic embryos of the herbaceous peony (*Paeonia lactiflora* Pall.) by air drying. *Cryobiol.* **53**:69-74.

Klaui, H., and Bauernfeind, J.C. (1981). Carotenoids as food color. In: Bauernfeind, J..C. (Ed). Carotenoids as Colorants and Vitamin A Precursors. London.: Academic. Ref. 8a. Pp. 47-317.

Kong, X.S. and Zhang, M.X. (1998). Fast propagation of tree peony. *Northwest Hort.* **(3)**:87-89.

Kubo, N., Hirai, M., Kaneko, A., Tanaka, D. and Kasumi, K. (2009). Development and characterization of simple sequence repeat (SSR) markers in the water lotus (*Nelumbo nucifera*). *Aquatic Botany* **90**: 191–194.

- Kumar, M., Chikara, S., Chand, M.K. and Bhatnagar, A.K. (2002). Accumulation of lead, cadmium, zinc, and copper in the edible aquatic plants *Trapa bispinosa* Roxb. and *Nelumbo nucifera*. *Bull. Environ. Contam. Toxicol.* **69**:649-654.
- Kunii, H. and Maeda, K. (1982). Seasonal and long-term changes in surface cover of aquatic plants in a shallow pond, Ojaga-ike, Chiba. Japan. *Hydrobiol.* **87**: 45-55.
- Lancar, L. and Krake, K. (2002). Aquatic weeds and their management. Intl. Commiss. Irr. Drainage.
- La-onsri, W., Trisonthi, C. and Balslev, H. (2008). Management and use of *Nelumbo nucifera* Gaertn. in Thai wetlands. *Wetlands Ecology and Management* **17**(4): 279-289.
- Lauzer, D. (2004). *In vitro* embryo culture of *Scirpus acutus*. *Plant Cell, Tissue and Organ Culture* **76**: 91-95.
- Lee, C. and Wen, J. (2004). Phylogeny of Panax using chloroplast trnC-trnD intergenic region and the utility of trnC-trnD in interspecific studies of plants. *Mol. Phylogenetic Evol.* **31**: 894-903.
- Li, L.J., Lin, H.M. and Cao, B.S. (2003) Some problems on lotus production without residue in Jiangsu province. *Chin Agric Sci* **19**:156-158
- Li, S.Z. (2007) The analysis of lotus and its processing. *Henan Agric* **3**:25-26.
- Li, L.J., Cao, P.S., Cheng, J.L., Zhang, X.D., Xie, K., Sun, L. and Liu, R.H. (2005a). Consideration on standardization status and increase in competition of Chinese lotus industry. *Mgt. Agr. Sci. Technol.* **24**:33-36.
- Li, L.J., Li, S.J., Cao, B.S. and Zhao, Y.W. (2000a). Fluctuation in levels of endogenous hormones and polyamines in leaves and rhizomes of healthy and stiff lotus (*Nelumbo nucifera* Gaertn). *Acta Hort. Sinica* **27**:423-427.

Li, S.Z., Lai, G.F., Lai, Y.L., Ye, J.T., Cai, Z.W , Wang, Q.C. and Zhang, X.H. (2000b). Study on control of lotus flower time in winter. *Guangdong Landscape* (3):36-39.

Li, X.C. and Sun, X.M. (2006). Research on the content of heavy metals distributed over each part of lotus plant. *J. South-Central Univ. Nationalities (Nat. Sci. Ed.)* **25**:25-27.

Li, Y.D., Y.N. Wei, and Xu, B.M. (2000c). Study on the ABA content and SOD activity in Ancient lotus and modern lotus seeds. *Chinese Bull. Bot.* **17**:439-442.

Li, Y.L., Wu, D.Y., Pan, S.L., Xu, S.L., Wei, Z.M., Xu, Z.H. and Li, X.J. (1984). In vitro propagation of *Paeonia suffruticosa*. Technique of tube seedling of tree peony. *Kexue Tongbao (Sci. Commun.)* (8):500-502.

Lin, H.M., Chang, Y.H., Lin, J.H., Jane, J.L., Sheu, M.J. and Lu, T.J. (2006). Heterogeneity of lotus rhizome starch granules as revealed by  $\alpha$ -amylase degradation. *Carbohydrate Polymers* **66**:528-536.

Lindley, M.G. (1998). The impact of food processing on antioxidants in vegetable oils, fruits and vegetables. *Trends Food Sci. Technol.* **9**: 336-341.

Liu, M., Chen, Y., Sun, C.B., Li, K.D and Fan, L.J. (2002). Studies on tissue culture of several cultivars of lotus (*Nelumbo nucifera*). *J. Zhejiang Agr. Sci.* (3):108-111.

Liu, T.C. (1948). Cultivation of excised plumules of *Nelumbo speciosum* in vitro. *Bot. Bull. Acad. Sinica* 2:207-210.

Liu, T.C. (1948). Cultivation of excised plumules of *Nelumbo speciosum* in vitro. *Bot. Bull. Acad. Sinica* 2:207-210.

Luo, L.P., Cai, Q.Y., Yang, B.Y. and Guo, Y.H. (2004a). Studies on the primary tissue culture of space lotus's rhizomes. *J. Nanchang Univ. (Nat. Sci.)* 28:266-269.

Luo, L.P., Guo, Y.H., Cai, Q.Y., Yang, B.Y. and Xie, K.Q. (2004b). The tissue culture of lotus by space mutation. *Plant Physiol. Commun.* 40:201.

Lynch, P.T. (2002). Plant Cryopreservation Workshop, 3-5 September 2002. University of Malaya. Kuala Lumpur, Malaysia.

Masato, K., Keiichi, W., Kazunari, N. and Kazuo, Y. (2002). *J. Jpn. Soc. Hortic. Sci.* **71**: 812.

Masuda, J.I., Urakawa, T., Ozaki, Y. and Okubo, H. (2006). Short photoperiod induces dormancy in lotus (*Nelumbo nucifera*). *Ann. Bot.* **97**:39-45.

Masuda, J.I., Ozaki, Y. and Okudo, H. (2007). Rhizome transition to storage organ is under phytochrome control in lotus (*Nelumbo nucifera*). *Planta* 226:909-915.

McDonald and Wolverton (1976). Don't waste waterweeds. *New Scientist*, **71**, 318–320.

Mellor, F.C. and Stace-Smith, R., (1969). Development of excised potato buds in nutrient medium. *Can. H. Bot.* **47**, 1617-1621.

Melo, M.J. (2009). History of natural dyes in the ancient Mediterranean world. In: Bechtold, T. and Mussak, R. (Ed.). *Handbook of natural colorants*. John Wiley & Sons Ltd, United Kingdom. Pp. 3-17.

Meng, J., Han, J. and Zu, E.P. (2007). Advances in tissue culture of *Paeonia suffruticosa*. *Northern Hort.* **(1)**:153-154.

Meyer, W.C. (1930). Dormancy and growth studies of the American lotus, *Nelumbo lutea*. *Plant Physiol.* **5**:225-234.

Miller, C.O. and Skoog, F. (1953). Chemical control of bud formation in tobacco stem segments. *Am. J. Bot.* **40**: 768-773.

Mohammed, G.H. and Vidaver, W.E. (1990). The influence of acclimatization treatment and plantlet morphology on early green house performance of tissue-

cultured Douglas fir (*Pseudotsuga menziesii* (Mirb.) Franco. *Plant Cell Tiss. Org. Cult.* **21**. 111-117.

Morris, W.L., Ducreux, L., Griffiths, D.W., Stewart, D., Davies, H.V. and Taylor, M.A. (2004). Carotenogenesis during tuber development and storage in potato. *Journal of Experimental Botany* **55**: 975–982.

Mukherjee, P.K., Saha, K., Das, J., Pal, M. and Saha, B.P. (1997). Studies on the antiinflammatory activity of rhizomes of *Nelumbo nucifera*. *Planta Med.* **63**: 367–369.

Mukherjee, P.K., Saha, K. and Saha, B.P. (1997). Effect of *Nelumbo nucifera* rhizome extract on blood sugar level in rats. *Journal of Ethnopharmacology*.**58**:207-213.

Murashige, T. (1974a). Plant propagation through tissue cultures. *Ann. Rev. Plant Physiol.* **25**: 135-166.

Murashige, T. and Skoog, F. (1962). A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiol. Plant.* **15**:473-497.

Nagashima, T. (2001). On the flowering of Tuusonji-Lotus (*Nelumbo nucifera*) preserved over 800 years. *Res. Bull. Keisin College Hort.* **32**: 1-17.

Nguyen, Q.V. (2001). Lotus for export to Asia- an agronomic and physiological study. RIRDC Publ., Barton, Australia.

Nhut, D.T., An, T.T.T., Houng, D.T., Don, T.N., Hai, T.N., Thien, Q.N. and Vu, H.N. (2007). Effect of genotype, explants size, position and culture medium on shoot generation of *Gerbera jamesonii* by receptacle transverse thin cell layer culture. *Sci. Hort.* **111**: 146-151.

Nielsen, D. L., Brock, M. A., Rees, G. N. and Baldwin, D.S. (2003). Effects of increasing salinity on freshwater ecosystems in Australia. *Aust. J. Bot.* **51**: 655–665.

Nirmal Kumar, J.I., H. Soni, and R.N. Kumar. (2008). Evaluation of biomonitoring approach to study lake contamination by accumulation of trace elements in selected aquatic macrophytes: a case study of kanewal community reserve, Gujarat, India. *Appl. Ecol. Environ. Res.* **6**:65-67.

Nohara, S. and Kimura, M. (1997). Growth Characteristics of *Nelumbo nucifera* Gaertn. in response to water depth and flooding. *Ecological Research* **12**:11-20.

Nohara, S. and Tsuchiya, T. (1990). Effects of water level fluctuation on the growth of *Nelumbo nucifera* Gaertn. in Lake Kasumigaura, Japan. *Ecological Research* **5**:237-252.

Nohara, S. and Kimura, M. (1997). Growth characteristics of *Nelumbo nucifera* Gaertn. in response to water depth and flooding. *Ecol. Res.* **12**:11-20.

Ohga, I. (1923). On the longevity of seeds of *Nelumbo nucifera*. *Bot. Mag.* **37**:87-95.

Ong, H.C. (1996). *Nelumbo nucifera* Gaertner. In: Flach, M. and F. Rumawas (Eds.). Plant Resources of South-East Asia No.9: Plants yielding non-seed carbohydrates. Pudoc Sci. Publ.. Wageningen, The Netherlands. p.131-133.

Ornes, W. H. and Sutton, D.L. (1975). Removal of phosphorus from static sewage effluent by water hyacinth. *J. Aquat. Plant Manag.* **13**: 56-58.

Othman, R. (2009). Biochemistry and genetics of carotenoid composition in potato tubers. Ph.D. Dissertation. Lincoln University, New Zealand.

Palozza, P. and Krinsky, N.I. (1992). Antioxidant effects of carotenoids *in vivo* and *in vitro*: an overview. *Methods Enzymol.* **213**: 403-420.

Pâques, M. (1991). Vitrification and micropropagation: causes, remedies and prospects. *Acta Hort.* **289**:283-290.

Pâques, M. and Boxus, P. (1987). Vitrification: review of literature. *Acta Hort.* **212**: 155-166.

Paulet, P. (1965). Étude de la néoformation in vitro de bourgeons végétatifs et floraux. *Rev. Gén. Bot.* **72**: 697-792.

Pierik, R.L.M. (1987). *In Vitro Propagation of Higher Plants*. Martinus, Boston.  
*Potrykus, Science* **287** (2000) 303.

Preece, J.E. and Sutter, E.G. (1991). Acclimatization of micropropagated plant to the greenhouse or field. In Debergh, P.C. and Zimmerman, R.H. (eds), *Micropropagation, Technology and Application*. Kluwer Academic Publishers. pp 71-93.

Priestley D.A. (1986). Seed aging. Comstock Cornell University Press, Ithaca, New York, USA.

Priestley, D.A. and Posthumus, M.A (1982). Extreme longevity of lotus seeds from Pulantien. *Nature* **299**:148-149.

Prival, M.J., Davis, V.M., Peiperl, M.D. and Bell, S.J. (1988). Evaluation of azo food dyes for mutagenicity and inhibition of mutagenicity by methods using *Salmonella typhimurium*. *Mutat. Res.* **(206)**: 247–259.

Pszczola, D.E. (1998). Natural colours: Pigments of imagination. *Food Technol.* **52**(6): 70–76.

Qian, J.Q. (2002). Cardiovascular pharmacological effects of bisbenzylisoquinoline alkaloid derivatives. *Acta Pharmacol. Sin.* **23**: 1086-1092.

Rahman, W., Ilyas, M. and Khan, A.W. (1962). Flower pigments: Flavonoids from *nelumbo nucifera* Gaertn. *Naturwissenschaften*: 49: 327.

Rao, M.S. and Purohit, S.D. (2006). *In vitro* shoot but differentiation and plantlet regeneration in *Celastrus paniculatus* Willd. - *Biol. Plant.* **50**: 501-506.

Ridge I. (1987) Ethylene and growth control in amphibious plants. In:Plant Life in Aquatic and Amphibious Habitats.(ed. R.M.M Crawford) pp 53-76. Blackwell Science, Oxford.

Rodriguez-Amaya D.B. (2000). In: J.F. Francis (Ed.). Proceedings of the 4th International Symposium on Natural Colorants for Foods, Neutraceuticals, Beverages, Confectionery and Cosmetics. SIC Publishing,Hamden. p. 252.

Sadecka, J. and Polonsky, J. (2000). Review: electrophoretic methods in the analysis of beverages. *J. Chromatogr. A* **(880)**: 243-279.

Saengkhae, C., Arunnopparat, W. And Sunghajorn, P. (2008). Antioxidant activity of *Nelumbo nucifera* Gaertn. on oxidative stress-induced erythrocyte hemolysis in hypertensive and normotensive rats, *Journal of Physiological Sciences*. **20**:70-78.

Sayre, J. (2004). Propagation protocol for American Lotus (*Nelumbo lutea* Willd.). *The Native Plants Journal* **5(1)**: 14-17.

Schoefs, B. (2004). Determination of pigments in vegetables. *Journal of Chromatography A* **(1054)**: 217–226.

Scowcroft, W.R. (1985). In: Hohn and Dennis. *In Vitro of Higher Plants*. By: Pierik, R.L.M. (1989)(ed). Martinus Nijhoff Publishers, Dordrecht. Pp 217-245.

Sculthorpe C.D. (1967). *The Biology of Aquatic Vascular Plants*. Edward Arnold, London.

Searly, C.E. (1976). *Chemical Carcinogenesis* (ACS Monograph No. 173), American Chemical Society (Ed.), Washington, DC.

Seddon, J.M., Ajani, U.A., Speruto, R.D., Hiller, R., Blair, N., Burton, T.C., Farber, M.D., Gragaudas, E.S., Haller, J., Miller, D.T., Yannuzzi, L.A. and Willett, W. (1994). Dietary Carotenoids, vitamin A, vitamin C and vitamin E and advanced age-related macular degeneration. *J. Am. Med. Assoc.* **272**: 1413-1420.

Shen-Miller, J., Mudgett, M.B., Schopf, J.W., Clarke, S. and Berger., R. (1995). Exceptional seed longevity and robust growth Ancient sacred lotus from China. *Amer. J. Bot.* **82**:1367-1380.

Shen-Miller, J., Schopf, W., Harbottle, G., Cao, R.J., Ouyang, S., Zhou, K.S., Southon, J.R. and Liu, G.H. (2002). Long-living lotus: germination and soil  $\gamma$ -

irradiation of centuries-old fruits, and cultivation, growth, and phenotypic abnormalities of offspring. *Amer. J. Bot.* **89**:236-247.

Shou, S.Y., Miao, L.X., Zai, W.S., Huang, X.Z. and Guo, D.P. (2008). Factors influencing shoot multiplication of lotus (*Nelumbo nucifera*). *Biologia Plantarum* **52**(3): 529-532.

Sim, L.L., Chambers, J.M. and Davis, J.A. (2006). Ecological regime shifts in salinised wetland systems. I. Salinity thresholds for the loss of submerged macrophytes. *Hydrobiologia* **573**: 89–107.

Sinha, S., Mukherjee, P.K., Mukherjee, K., Pal, M., Mandal, S.C. and Saha, B.P. (2000). Evaluation of antipyretic potential of *Nelumbo nucifera* stalk extract. *Phytother. Res.* **14**: 272–274.

Skoog, F. and Miller, C.O. (1957). Chemical regulation of growth and organ in plant tissue cultures *in vitro*. *Symp. Soc. Exp. Biol.* **11**:118-130.

Skoog, F. and Tsui, C. (1948). Chemical control of growth and bud formation in Tobacco stem segments and callus cultured *in vitro*, *Am. J. Bot.* **30**: 782-787.

Smith, D.L. and Krikorlan, A.D. (1990). Somatic proembryo production from excised wounded zygotic carrot embryos on hormone-free medium. Evaluation of the effects of pH ethylene activated charcoal. *Plant Cell Rep.* **9**, 34-37.

Snow, J.R. (2000). Establishment and competitive ability of *Nelumbo lutea* in relation to *Myriophyllum spicatum*. Univ. North Texas, MS Thesis.

Solomons, N.W. and Bulux, J. (1997). Identification of local carotene-rich foods to combat vitamin A malnutrition. *Eur. J. Clin. Nutr.* **51**: S39-S45.

Sommer, A. and West, K. P. Jr. (1996). Vitamin A Deficiency: Health, Survival and Vision. Oxford University Press, New York.

Sou, S.Y. and Fujishige, N. (1995). Cultivation comparison of lotus (*Nelumbo nucifera*) between China and Japan. *J. Zhejiang Agr. Sci.* **4**:187-189.

Sridhar, K.R. and Bhat, R. (2007). Lotus a potential nutraceutical source. *J. Agric. Technol.* **3(1)**: 143-145.

Sun, K.L., Wang, M. and Gui, Y.H. (2000). Studies on the primary vascular system of the seedling of *Nelumbo nucifera*. *Acta Bot. Yunnanica* **21**: 286-290,317.

Sun, Z., Gantt, E. and Cunningham, F. X. Jr. (1996). Cloning and functional analysis of the  $\beta$ -carotene hydroxylase of *Arabidopsis thaliana*. *The Journal of Biological Chemistry* **271(40)**: 24349–24352.

Swindells, P. (1983). Waterlilies. Timber Press, Portland, Oregon.

Takagi, K., Harazono, Y., Noguchi, S.I. ,Miyata, A., Mano, M. and Komine, M. (2006). Evaluation of the transpiration rate of lotus using the stem heat-balance method. Kentaro Takagia. *Aquat. Bot.* **85**:129-136.

Tateo, F. and Bononi, M.J. (2004). Fast Determination of Sudan I by HPLC/APCI-MS in Hot Chilli, Spices, and Oven-Baked Foods. *J. Agric. Food Chem.* **52(4)**: 655-658.

Tevini, M., Iwanzik, W. and Schonecker, G. (1984). Analyse vorkommen und nerhalten von carotinoiden in kartoffeln und kartoffelprodukten. *Jahrbuch Forschungskreis Ernahrungsindustrie* **V 5**: 36-53.

Thullen, J.S. and Eberts, D.R. (1995). Effects of temperature, stratification, scarification, and seed origin on the germination of *Scirpus acutus* Muhl. seeds for use in constructed wetlands. *Wetlands* **15**: 298-304.

Tian, D.K., K.M. Tilt, F.M. Woods, J.L. Sibley and F. Dane. (2006). Summary of development, introduction and marketing strategy to share lotus in the Southeast United States. Proc. 13th Ann. Conf. Wakayama Jpn, Intl. *Plant Prop. Soci.* 151-154.

Tongtorsak, P., Chaicit, N. and Panyajirawut, J. (2004). Acute and chronic hypotensive effects of crude leaf extract of *Nelumbo nucifera* Gaertn., *TJPS*. **17**:68-69.

Unni K.S. (1976). Production of submerged aquatic communities of Doodhadhari Lake, Raipur (M.P. India). *Hydrobiologia* **48**:175-177.

Unni, K.S. (1971a). An ecological study of the macrophytic vegetation of the Doodhadhari Lake, Raipur, M.P., India. 1. Distribution and seasonal change in aquatic plants. *Hydrobiol.* **37**:139-155.

Unni, K.S. (1971b). An ecological study of the macrophytic vegetation of the Doodhadhari Lake, Raipur, M. P., India. 2. Physical factors. *Hydrobiol.* **38**(3-4):479-487.

Vajpayee, P., Sharma, S.C., Tripathi, R.D., Rai, U.N. and Yunus, M. (1999). Bioaccumulation of chromium and toxicity to photosynthetic pigments, nitrate reductase activity and protein content of *Nelumbo nucifera* Gaertn. *Chemosphere* **39**: 2159-2169.

Van den Berg, H., Faulks, R., Fernando Granado, H., Hirschberg, J., Olmedilla, B., Sandmann, G., Southon, S. and Stahl, W. (2000). Review: The potential for the improvement of carotenoid levels in foods and the likely systemic effects. *Journal of the Science of Food and Agriculture* **80**:880-912.

Van Vliet, T., van Schaik, F., Schreurs, W.H.P. and van den Berg, H. (1996). *In vitro* measurement of  $\beta$ -carotene cleavage activity: Methodological considerations and the effect of other carotenoids on  $\beta$ -carotene cleavage. *J. Vit. Nutr. Res.* **66**: 77-85.

Vennerloo, C., (1976). The formation of adventitious organs. III. A comparison of root and shootformation on Nautilocalyx explants. *Z. Pflanzen Physiol.* **80**, 310-322.

Vergara B.S. (1985). Growth and Development of the deep Water Rie Plant. *IRRI Research Paper Series* **103**:1-38.

Walker, G., Zhang, L., Ellis, T., Hatton, T. and Petheram, C. (2002). Estimating impacts of changed land use on recharge: review of modelling and other approaches appropriate for management of dryland salinity. *Hydrol. J.* **10**: 68–90.

Wang, J., Seliskar, D.M. and Gallagher, J.L. (2004). Plant regeneration via somatic embryogenesis in the brackish wetland monocot *Scirpus robustus*. *Aquatic Botany* **79**: 163–174.

Wang, Q.C. and Zhang, X.Y. (2005). Lotus flower cultivars in China. China Forestry Publishing House, Beijing.

Wang, Q.C. and Zhang, X.Y. (2004). Lotus flower cultivars in china. China Forestry Publ. House. Beijing.

Wang, X.L. (2007). Stock-saving technology for lotus cultivation. *Shandong Agr. Sci.* **(5)**:120-121.

**Wellburn, A.R.** (1994). The spectral determination of chlorophyll-*A* and chlorophyll-*B*, as well as total carotenoids using various solvents with spectrophotometers of different resolution. *J. Plant Physiol.* **144**: 301-313.

Wen, G.Y. (1987). Effect of discarding terminal buds on yield and traits of lotus rhizomes. *J. Zhejiang Agr. Sci.* **(4)**:193-195.

Wooten J.W. (1986). Variations in leaf characteristics of six species of *Sagittaria* (Alismataceae) caused by various water level. *Aquatic Botany* **23**:321-327.

Wojtaszek, P (1997). Oxidative burst: an early plant response to pathogen infection. *Biochemical Journal* **322**: 681-692.

Wu, Y.F. (2003). Research on browning mechanism and factors influencing the explant browning in preliminary culture in vitro of peony. Shandong Univ., MS Thesis.

Yamamoto, Y. and Matsumoto, O. (1986). Tissue culture of lotus (*Nelumbo nucifera* Gaertn.) from apical meristem. *Farm. Hort.* **61**:87-88.

Yamamoto, Y. and Matsumoto, O. (1988). Tissue culture of lotus (*Nelumbo nucifera* Gaertn.) I. Culture media for inducing plantlet from apical meristem. *Bull. Yamaguchi Agr. Expt. Sta.* **44**:44-48.

Yamamoto, Y. and Matsumoto, O. (1990). In vitro induction of tetraploid plants in lotus (*Nelumbo nucifera* Gaertn.) and their characteristics. *Bull. Yamaguchi Agr. Expt. Sta.* **42**:7-12.

Yang, H.C. and D.L. Pei. (2006). Study on embryo culture of peony (*Paeonia* L.) seed. *Agr. Sci. Guangxi.* **37**:108-110.

Yang, R.Z., Wei, X.L., Gao, F.F., Wang, L.S., Zhang, H.J., Xu, Y.J., Li, C.H., Ge, Y.X., Zhang, J.J. and Zhang, J. (2009). Simultaneous analysis of anthocyanins and flavonols in petals of lotus (*Nelumbo*) cultivars by high-performance liquid chromatography-photodiode array detection/electrospray ionization mass spectrometry. *Journal of Chromatography A* **(1216)**:106-112.

Yang, Z.M., Chen, P. and Luo, L.X. (2006). Antiseason lotus cultivation technology in winter in Zhuhai. *Guangdong Agr. Sci.* **(7)**:83-84.

Yapabandara, Y. M. H. B. and Ranasinghe, P. (2006). Tissue culture for mass production of aquatic plant species. [http://www.apctt.org/publication/pdf/tm\\_dec\\_tissue.pdf](http://www.apctt.org/publication/pdf/tm_dec_tissue.pdf). Cited 1st December 2007.

Yuan, J.L., Ding, Y., Kang, X. and Ai, Q.J. (2004). Effect of process conditions on quality of stored clean lotus rhizomes. *Storage Process.* **25**:128-131.

Zedler, J.B. and Kercher, S. (2005). Wetland resources: status, trends, ecosystems services, and restorability. *Annu. Rev. Environ. Resour.* **30**: 39–74.

Zhao, Y.W. (1999). Aquatic vegetables in China. China Agriculture Press, Beijing.

Ziv, M. and Halevy, A.H., (1983). Control of oxidative browning and in vitro propagation of *Strelitzia reginae*. *Hort. Sci.* **18 (4)**, 434-436.

Zou, X., Zhao, X. and Jin, X. (1997). Flowering Lotus of China. Jindun Publishing House, Beijing.