

เอกสารอ้างอิง

- เกตุนี้ ระมิงค์วงศ์ 2528. การจำแนกไม้ผล. ภาควิชาพืชสวน คณะเกษตรศาสตร์ มหาวิทยาลัย
เชียงใหม่. 289 หน้า.
- คณินนิตย์ เจริญวรารกร. 2527. โรคส้มโอและการผลิตพันธุ์ส้มโอให้ปราศจากโรค. วิทยานิพนธ์
มหาบัณฑิต ภาควิชาโรคพืช คณะเกษตร มหาวิทยาลัยเกษตรศาสตร์. 62 หน้า
- ประดิษฐ์ พงศ์ทองคำ, เติม รัตสุนทร, เสาวนีย์ สุนทรธาดา และสุนน มาสุนน. 2531.
การเกิดยอดหลายยอดโดยการเพาะเลี้ยงเนื้อเยื่อในส้มโอ. วิทยาศาสตร์การเกษตร
21(5):367-374.
- ประสิทธิ์ ศรีจันงค์ และอรดี สหวัชรินทร์. 2520. การขยายพันธุ์ส้มโอโดยวิธีการเลี้ยงเนื้อ
เยื่อ. วิทยานิพนธ์มหาบัณฑิตแผนกวิชาพฤกษศาสตร์ คณะวิทยาศาสตร์ จุฬาลงกรณ์
มหาวิทยาลัย. 67 หน้า
- วิจิตร วังไณ. 2527. พันธุ์ทางพืชสวนของส้ม. ข่าวสารศัตรูพืช. ฉบับส้ม ปีที่ 1 : 19.
- Altman, A. and R. Goren. 1971. Promotion of callus formation by
abscissic acid in citrus bud cultures. Plant Physiol. 47 :
844-846.
- _____ and _____. 1974a. Interrelationship of abscissic acid
and gibberellic acid in the promotion of callus formation in
the abscission zone of citrus bud cultures. Physiol. Plant.
32(1) : 55-61.
- _____ and _____. 1974b. Growth and dormancy cycles in Citrus
bud cultures and their hormonal control. Physiol. Plant.
30(3) : 240-245.

- _____ and _____. 1978. Development of citrus bud explants in culture. *J. Amer. Soc. Hort. Sci.* 103(1) : 120-123.
- Barlass, M. And K.G.M. Skene. 1982. *In vitro* plantlet formation from Citrus species and hybrids. *Scientia Hort.* 17 : 333-341.
- Bhansali, R.R. and H.C. Arya. 1978. Shoot formation in stem and root callus of Citrus aurantifolia Christian. Swingle grown in cultures. *Curr. Sci.* 47(20) : 775-776.
- _____ and _____. 1979. Differentiation in explant of Citrus paradisi Macf. (grapefruit) grown in culture. *Hort. Anstr.* 49(1) : 63.
- _____ and _____. 1981. Tissue culture propagation of citrus trees. *Hort. Abstr.* 51(4) : 251.
- Bouزيد, S. 1976. Some behaviour traits of citrus cutting cultured *in vitro*. *Hort. Abstr.* 46(3) : 226.
- Brunet, G. and R.K. Ibrahim. 1974. Tissue culture of Citrus peel and its potential for flavanoid synthesis. *Hort. Abstr.* 44(10):716.
- Burg, S.P. 1962. The physiology of ethylene formation. *Ann. Rev. Plant Physiol.* 13 : 265-302.
- Burger, D.W. and W.P. Hackett. 1986. Gradients of adventitious bud formation on excised epicotyl and root sections of citrus. *Hort. Abstr.* 56 (7) :609.
- Button, J. 1979. The effects of some carbohydrates on the growth and organization of Citrus ovular callus. *Hort. Abstr.* 49(1):63.

- _____ and C.H. Bornman. 1971. Development of nucellar plants from unpollinated and unfertilized ovules of the Washington Navel orange in vitro. Hort. Abstr. 41(4):1162-1163.
- _____ and C.E.J. Botha. 1975. Enzymic maceration of Citrus callus and the regeneration of plants from single cells. J. Exp. Bot. 26(94) : 723-729.
- Chaturvedi, H. C. and G.C. Mitra. 1974. Clonal propagation of citrus from somatic callus cultures. HortSci. 9(2):118-120.
- _____ and _____. 1975. A shift in morphogenesis pattern in Citrus callus tissue during prolonged culture. Ann. Bot. 39:683-687.
- _____ and A.K. Sharma. 1985. Production of androgenic plants of Citrus aurantifolia. Hort. Abstr. 55(10):836.
- _____ ; A.R. Chowdhury and G.C. Mitra. 1974a. Morphogenesis in stem-callus tissue of Citrus grandis in long-term cultures-a biochemical analysis. Curr. Sci. 43(5)139-142.
- _____ ; _____ and _____. 1974b. Shoot bud differentiation in stem-callus tissue of Citrus grandis and correlated changes in its free amino acid content. Curr. Sci. 43(17) : 536-537.
- Chen, Z.G. 1985. A study of induction of plants from Citrus pollen. Hort. Abstr. 55(12) : 1009.

- Dix, L. and J. Van Staden. 1982. Auxin and gibberellin-like substances in coconut milk and malt extract. *Plant Cell, Tiss. and Org. Cult.* 1(4) : 239-245.
- Duran-Vila, N. ; V. Ortega and L. Navarro. 1989. Morphogenesis and tissue cultures of three citrus species. *Plant Cell, Tiss. and Org. Cult.* 16 : 123-133.
- Edriss, M.H. and D.W. Burger. 1984. In vitro propagation of 'Troyer' citrange from epicotyl segments. *Scientia Hort.* 23 : 159-162.
- Einset, J.W. 1978. Citrus tissue culture stimulation of fruit explant cultures with orange juice. *Plant Physiol.* 62 : 885-888.
- _____. 1987. Citrus styelar abscission in tissue cultures. *Hort. Abstr.* 57(2) : 159.
- _____ ; J. L. Lyon and D.L. Sipes. 1981. Citrus tissue culture : auxin in relation to abscission in excised pistils. *Plant Physiol.* 67 : 1109-1112.
- Epstein, E. ; J. Kochba and H. Neumann. 1978. Metabolism of indoleacetic acid by embryogenic and non-embryogenic callus lines of "Shamouti" orange (*Citrus sinensis* Osb.) *Hort. Abstr.* 48(6):529.

- Even-Chen, Z. ; A.K. Mattoo and R. Goren. 1982. Inhibition of ethylene biosynthesis by aminoethoxyvinylglycine and by polyamines shunts label from 3,4- 14 C] methionine into sperimidine in aged orange peel discs. *Plant Physiol.* 69 : 385-388.
- Fellman, C.D. ; P.E. Read and M.A. Hosier. 1987. Effect of thidazuron and CPPU on meristem formation and shoot proliferation. *HortSci.* 22(6):1197-1200.
- Geraci, G. and N. Tusa. 1990. Calli and plants from Citrus limon Burn cv. "Femminello" ovules in vitro. *Hort. Abstr.* 60(2):168.
- Giladi, I. ; A. Altman and R. Goren. 1977. Differential effects of sucrose, abscissic acid (ABA) and benzyladenine (BA) on shoot-growth and on callus formation in abscission zone of excised citrus buds. *Plant Physiol.* 59:1161-1164.
- _____ ; _____ and _____. 1979. A method for aseptic culture of bud explants from citrus trees. *Scientia Hort.* 10 : 357-362.
- Gmitter, F.G. and G.A. Jr. More. 1986. Plant regeneration from undeveloped ovules and embryogenic calli of Citrus : embryo production, germination, and plant survival. *Plant Cell, Tiss.and Org. Cult.* 6 (2) : 139-147.

Goldschmidt, E.E. and B. Leshem. 1971. Style abscission in the citron (Citrus medica L.) and other citrus species : morphology, physiology, and chemical control with picloram. Amer. J. Bot. 58(1) : 14-23.

_____ and S.P. Monselise. 1968. Native growth inhibitors from citrus shoots, partition, bioassay and characterization. Plant Physiol. 43 : 113-116.

Goren, R. and M. Huberman. 1976. Effects of ethylene and 2,4-D on the activity of cellulase isoenzymes in abscission zones of the developing orange fruit. Physiol. Plant. 37:123-130.

_____ ; A. Altman and I. Giladi. 1979. Role of ethylene in abscissic acid-induced callus formation in citrus bud cultures. Plant Physiol. 63 : 280-282.

_____ ; G. Teitelbaum and A. Ratner. 1974. The role of cellulase in the abscission of citrus leaves and fruits in relation to exogenous treatments with growth regulators. Hort. Abstr. 44 (10):716.

_____ ; Y. Aron ; S.P. Monselise and M. Huberman. 1987.

Morphactin-induced inhibition of abscission in citrus leaves. Hort. Abstr. 57(2) : 159.

Grinblat, U. 1972. Differentiation of citrus stem in vitro. J.

Amer. Soc. Hort. Sci. 97(5) : 599-603.

- Grosser, J.W. and J.L. Chandler. 1986. In vitro multiplication of swingle citrumelo rootstock with coumarin. HortSci. 21(3) : 518-520.
- Guardiola, J.L.; C. Monerri and M. Agusti. 1982. The inhibitory effect of gibberellic acid on flowering in Citrus. Physiol. Plant. 55 : 136-143.
- Hidaka, T. 1985a. Effects of sucrose concentration, pH of media, and culture temperature on anther culture of citrus. Hort. Abstr. 55(6) : 488.
- _____. 1985b. Induction of plantlets from anthers of 'Trovita' orange (Citrus sinensis Osbeck). Hort. Abstr. 55(8):654-655.
- _____. and I. Kajiura. 1988. Plantlet differentiation from callus protoplasts induced from Citrus embryo. Hort. Abstr. 58(10):768-769.
- _____ and M. Omura. 1990. Control of embryogenesis in Citrus cell culture : regeneration from protoplasts and attempt to callus bank. Hort. Abstr. 60(8):773.
- Hosoi, T.; H. Machida ; A. Ooishi and T. Miura. 1980. Studies on shoot-tip grafting of citrus. Hort. Abstr. 50(11):702.
- Hsiung, T.C. and S. Iwahori. 1984. Prevention of abscission of ponkan, Citrus reticulata Blanco, leaves by various calcium salts. Hort. Abstr. 55(12) : 1011.

- Huang, C.Z. and J.H. Li. 1985. Culture of lateral buds of Fortunella margarita. Hort. Abstr. 55(1) : 65.
- Huberman, M. and R. Goren. 1979. Exo-and endo-cellular cellulase and polygalacturonase in abscission zones of developing orange fruits. Physiol. Plant. 45:189-196.
- _____ ; _____ and E. Zamski. 1983. Anatomical aspects of hormonal regulation of abscission in citrus:the shoot-peduncle abscission zone in the non-abscising stage. Physiol. Plant. 59:455-454.
- _____ ; E. Zamski and R. Goren. 1989. Anatomical changes induced by ethylene in the abscission zone of citrus leaf and fruit explants. Hort. Abstr. 59(8) : 801-802.
- Hyodo, H. and T. Nishino. 1981. Wound-induced ethylene formation in albedo tissue of citrus fruit. Plant Physiol. 67 : 421-423.
- Iwahori, S. 1989. Acceleration of abscission of citrus leaf explants by calmodulin antagonists. Sci. Hort. 37(4) 325-330.
- _____ and R.F.M. Van Steveninck. 1990. Localization of calcium within cells of the abscission layer of lemon leaf explants. Hort. Abstr. 60(2) : 170.
- Kamisoyama, S ; S. Iwahori and J.T. Oohata. 1982. Cotyledon induction from juice vesicles of Citrus hassaku cultured in vitro. Hort. Abstr. 53(5):312.

- Kawase, K. ; I. Iwagaki ; K. Suzuki ; H. Komatsu ; K. Hirose and M. Shiraishi. 1989. Control of sprouting and shoot elongation in satsuma mandarin (Citrus unshiu Marc.) by plant growth regulator. Hort. Abstr. 59(2) : 179.
- Kitto, S.L. and M.J. Young. 1981. In vitro propagation of carrizo citrange. HortSci. 16(3) : 305-306.
- Kobayashi, S. ; I. Ikeda and M. Nakatani. 1985. Induction of nucellar callus from orange (Citrus sinensis Osb.) ovules, and uniformity of regenerated plants. Hort. Abstr. 55 (8) : 655.
- Koch, K.E. ; L.H. Allen ; P. Jones and W. Avigne. 1987. Growth of citrus rootstock (Carrizo citrange) seedlings during and after long-term CO₂ enrichment. J. Amer. Soc. Hort. Sci. 112 (1) : 77 - 82.
- _____ ; D.W. White ; P.H. Jones and L.H. Allen. 1985. CO₂ enrichment of Carrizo citrange and Swingle citrumelo rootstocks. Hort. Abstr. 55(10) : 836.
- Kochba, J. ; P. Spiegel-Roy and H. Safran. 1973. Adventive plants from ovules and nucelli in Citrus. Hort. Abstr. 43(9):610.
- _____ ; _____ ; H. Neumann and S. Saad. 1982. Effect of carbohydrates on somatic embryogenesis in subcultured nucellar callus of Citrus cultivars. Hort. Abstr. 52(7) : 488.

- _____ ; J. Button ; P. Spiegel-Roy ; C.H. Bornman and M. Kochba.
1974. Stimulation of rooting of Citrus embryoids by gibberellic acid and adenine sulphate. *Ann. Bot.* 38 : 795-802.
- Letham, D.S. 1974. Regulators of cell division in plant tissues xx. The cytokinins of coconut milk. *Physiol. Plant.* 32 : 66-70.
- Lewis, L.N. and J.C. Bakhshi. 1968a. Interactions of indoleacetic acid and gibberellic acid in leaf abscission control. *Plant Physiol.* 43 : 351-358.
- _____ and _____. 1968b. Protein synthesis in abscission : the distinctiveness of the abscission zone and its response to gibberellic acid and indoleacetic acid. *Plant Physiol.* 13 : 359-364.
- Liu, D. 1986. Organogenesis in different seedling parts of Citrus sinensis. *Hort. Abstr.* 56(5) : 388.
- Liu, G.B. 1985. A preliminary report on citrus shoot tip culture in vitro and induced mutation. *Hort. Abstr.* 55(4) : 301-302.
- Mok, M.C. ; D.W.S. Mok ; J.E. Turner and C.V. Mujer. 1987. Biological and biochemical effects of cytokinin-active phenylurea derivatives in tissue culture systems. *HortSci.* 22 (6) : 1194-1197.
- Moore, G.A. 1985. Factors affecting in vitro embryogenesis from undeveloped ovules of mature Citrus fruit. *J. Amer. Soc. Hort. Sci.* 110(1) : 66-70.

- _____. 1986. In vitro propagation of Citrus rootstocks. HortSci. 21(2) : 300-301.
- Murashige ,T. and F. Skoog. 1962. A revised medium for rapid growth and bio-assays with tobacco tissue cultures. Physio. Plant. 15 : 473-479.
- _____ and D.P.H. Tucker. 1969. Growth factor requirements of Citrus tissue culture. Proc. 1st Int. Citrus Symp. 3 : 1155-1161.
- Navarro, L. ; J. Juarez ; J.F. Ballester ; J.A. Pina and C. Ortega. 1981. Obtaining nucellar virus free plants of different citrus cultivars of the navel group by means of ovule culture in vitro. Hort. abstr. 51(1) : 70.
- _____ ; J.M. Ortiz and J. Juarez. 1985. Aberrant citrus plants obtained by somatic embryogenesis of nucelli cultured in vitro. HortSci. 20(2) : 214-215.
- _____ ; C.N. Roistacher and T. Murashige. 1975. Improvement of shoot-tip grafting in vitro for virus-free citrus. J. Amer. Soc. Hort. Sci. 100(5) : 471-479.
- Nel, M. 1988a. Embryogenic citrus callus cultures studied for greening disease tolerance. Hort. Abstr. 58(3) : 198.
- _____. 1988b. In vitro culture of citrus meristems. Hort. Abst. 58(4) : 274.

- Pasqual, M. and A. Ando. 1990. Micropropagation of 'trifoliata' through axillary buds in in vitro culture. Hort. Abstr. 60(11):1066.
- _____ ; _____ and O.J. Crocomo. 1990. Effects of growth regulators on in vitro embryogenesis of nucelli in Citrus sinensis cv. Valencia. Hort. Abstr. 60(12) :1178.
- _____ ; O.J. Crocomo and A. Ando. 1985. Regeneration of citrus plants from nucelli in vitro. Hort. Abstr. 55(9) : 741.
- Patena, L.F.; R.C. Barba and J.B. Estrella. 1979. Tissue culture of calamansi (Citrus mitis Blanco) and pummelo (C.grandis Osb.) Hort. Abstr. 49(1) : 769.
- Plummer, J.A. ; M.G. Mullins ; J.H. Vine and R.P. Pharis. 1990. The role of endogenous hormones in shoot emergence and abscission in alternate bearing Valencia orange trees. Hort. Abstr. 60(2):171.
- Pontikis, C.A. and E. Sapoutzaki. 1985. Effect of phloroglucinol on successful propagation in vitro of Troyer citrange. Hort. Abstr. 55(8) : 654.
- Primo-Millo, E. 1977. A study of hormonal factors affecting cellular division and root formation in lemon tree tissues. Hort. Abstr. 47(11):905.

- _____ and H. Harada. 1978. Hormonal control of callus, bud and root formation on the internodes of Troyer citrange (hybrid of Citrus sinensis cv. Washington Navel x Poncirus trifoliata) cultured in vitro. Hort. Abstr. 48(6):529-530.
- Rangan, T.S. ; T. Murashige and W.P. Bitters. 1968. In Vitro initiation of nucellar embryos in monoembryonic Citrus. HortSci 3(4) : 226-227.
- Reynold, J.F. 1987. Chemical regulation in tissue culture : an overview. HortSci. 22(6):1192-1194.
- Riov, J. and R. Hausman. 1989. Regulation of water-stress induced ethylene in citrus leaves. Hort. Abstr. 59(8):800-801.
- _____ ; O. Sagee and R. Goren. 1987. Ethylene-induced changes in indole-3-acetic acid metabolism in citrus leaf tissues during abscission and senescence. Hort. Abstr. 57(2) : 159.
- _____ ; E. Dagan ; R. Goren and F.Y. Shang. 1990. Characterization of abscissic acid-induced ethylene production in citrus leaf and tomato fruit tissues. Hort. Abstr. 60(9):884-885.
- Sagee, O. ; R. Goren and J. Riov. 1980. Abscission of citrus leaf explants. Plant Physiol. 66 : 750-753.
- _____ ; J. Riov and R. Goren. 1990. Ethylene-enhanced catabolism of [¹⁴C] indole-3-acetic acid to indole-3-carboxylic acid in citrus leaf tissues. Hort. Abstr. 60(9):885.

- Sauton, A. ; A. Mouras and A. Lutz. 1982. Plant regeneration from citrus root meristems. *J. Hort. Sci.* 57(2) : 227-231.
- Schenk , R.U. and A.C. Hildebrandt. 1972. Medium and techniques for induction and growth of monocotyledonous and dicotyledonous plant cell cultures. *Can. J. Bot.* 50 : 199.
- Shengeliya, L.N. and R.G. Butenko. 1988. Clonal micropropagation of citrus crops using axillary buds. *Hort. Abstr.* 58(5) : 341.
- Sim, G.E. ; C.J. Goh and C.S. Loh. 1989. Micropropagation of *Citrus mitis* Blanco-multiple bud formation from shoot and root explants in the presence of 6-benzylaminopurine. *Hort. Abstr.* 59(5) : 488.
- Sipes, D.L. and J.W. Einset. 1982. Role of ethylene in stimulating styelar abscission in pistil explants of lemons. *Physiol. Plant.* 56 : 6-10.
- _____ and _____. 1985. Cytokinin stimulation of abscission in lemon pistil explants. *Hort. Abstr.* 55(7) : 580.
- Sisler, E.C. ; R. Goren and M. Huberman. 1985. Effect of 2,5-norboradenine on abscission and ethylene production in citrus leaf explants. *Physiol. Plant.* 63(1) : 114-120.
- Southwick, S.M. and T.L. Davenport. 1986. Changes in abscissic acid levels in leaves and buds during the flowering cycle of citrus. *Plant Physiol.* 80(4):95.

- Starrantino, A. and A. Caruso. 1989a. In vitro culture for citrus micropropagation. Hort. Abstr. 59(7) : 692.
- _____ and _____. 1989b. The in vitro culture technique for the micropropagation of citranges and trifoliate orange cv. Flying Dragon. Hort. Abstr. 59(12):1189.
- Taha, F.A. and G.R. Stino. 1982. Effect of thidiazuron on abscission of citrus leaf explants and on callus formation in vitro Hort. Abstr. 52(7) : 488.
- Towill, L.R. 1987. Effect of IAA and ethylene on folia abscission. Plant Physiol. 83(4):100.
- Van Staden, J. 1976. The identification of zeatin glucoside from coconut milk. Physiol. Plant. 36 : 123-126.
- _____ and S.E. Drews. 1975. Identification of zeatin and zeatinriboside in coconut milk. Physiol. Plant. 34 : 106-109.
- Wang, T.Y. and C.J. Chang. 1978. Triploid citrus plantlet from endosperm culture. Scientia Sinica 21(6) : 823-827.
- White, P.R. 1943. A Handbook of Plant Tissue Culture , The Jacques Catlell Press , Lancaster, Pa.
- Wurzburger, J. and R. Goren. 1978. Abscission of Citrus leaf explants : no correlation with naphthalene acetic acid conjugation in the abscission zone. Plant Physiol. 62 : 295-298.

Yu, Y.B. and S.F. Yang. 1980. Biosynthesis of wound ethylene. *Plant Physiol.* 66 : 281-285.

Zacarias, L. ; D. Tudela and E. Primo-Millo. 1990. Ethylene forming activity from ACC in citrus leaf discs : influence of light and darkness. *Hort. Abstr.* 60(7) : 549.

_____ ; _____ and _____. 1990. Stimulation of ACC-dependent ethylene production in citrus leaf discs by light. *Physiol. Plant.* 80:89-94.

Zdruikovskaya-Rikhter, A.I. 1987. Regeneration of pummelo endosperm in in vitro culture. *Hort. Abstr.* 57(12):1051.

Zhu, X.R. and K. Matsumoto. 1990. Absorbtion and translocation of 6-benzylamino purine in satsuma (Citrus unshiu Marc.) trees. *Hort. Abstr.* 60(1) : 76.

_____ ; _____ and M. Shiraishi. 1990a. Accelaration effect of 6-benzylamino purine (BA) spray on the sprouting of axillary buds in satsuma (Citrus unshiu Marc.) trees. *Hort. Abstr.* 60 (10) : 978.

_____ ; H. Inoue ; F. Mizutani and K. Matsumoto. 1990b. Cytokinin levels in satsuma trees as influenced by temperature treatments during the quiescent period. *Hort. Abstr.* 60(1) : 76.