

REFERENCES

References

- Ahuja, P. S., Pental, D. and Cocking, E. C. (1982) Z. Pflanzenzuchtg. 89 : 139 - 178.
- Albach, R. F. and Redman, G. H. (1969) Composition and inheritance of flavanones in citrus fruit. Phytochemistry 8: 127 - 143.
- Alskieff, J. Riedel, M., (1978) Les Phenomenes d'organogenesis induits in vitro chez les agrumes: Citrang Troyer. Cr Acad Sci Paris 287 : 2249 - 2522.
- Altman, A. and Goren, R. (1974). Interrelationship of abscisic acid and gibberellic acid in the promotion of callus formation in the abscission zone of citrus bud culture. Physiol. Plant. 32 : 35 - 61.
- Altman, A. and Goren, R. (1978) Development of citrus bud explants in culture. J. Am. Soc. Hortic. Sci. 103: 120 - 123.
- Ammirato, P. V., D. A. Evans, W. R. Sharp and Y. Yasuyuki. (1984) Hand book of plant cell culture, vol. 3. Macmillan, New York, pp. 355 - 372.
- Anonymous, (1986) Citrus species and *P. trifoliata* (citrus crops and trifoliata orange). In: Genetic Resources of Tropical and Subtropical Fruits and Nuts. International Board for Plant GeneticResources. Rome. pp. 105 - 115.
- Bajaj, Y. P. S. (1985) Cryopreservation of embryos. In: Kartha K. K. (Ed) Cryopreservation of Plants, Cells and Organs pp. 227- 242. CRC press, Boca Raton, Florida.
- Bajaj, Y. P. S. (ed). (1986) Biotechnology in agriculture and forestry. Vol. 1: Trees I. Springer-Verlag, Berlin Heidelberg.
- Baker, E. A. (1974) The influence of environment on leaf wax development in *Brassica oleracea* var. *germifera*. New Phytol. 73 : 955 - 966.
- Barlass, M. and Skene, K. G. M. (1982) In vitro plantlet formation from Citrus species and hybrids. Scientia Hortic. 17 : 333 - 341.
- Barret, H. C., Rhodes, A. M. (1976) A numerical taxonomic study of affinity relationships in cultivated *Citrus* and its close relatives. Syst Bot 1 : 105 - 136.
- Barrett, H. C. (1977) Intergeneric hybridization of Citrus and other genera in Citrus variety improvement. Proc Int Soc Citric 2 : 586 - 589.

- Bhansali, R. and Arya, H. C. (1979) Organogenesis in *Citrus limettoides* (sweet lime) callus culture. *Phytomorphology*, 29 : 79 - 100.
- Bhat, S. R., Chitralekha, P. and Chandel, K. P. S. (1991) Regeneration of plants from long-term root culture of lime *Citrus aurantifolia* (Christm.) Swing. *Plant Cell, Tissue and Organ Culture* 29 : 19 - 25.
- ~~Bhat, S. R., Chitralekha, P. and Chandel, K. P. S. (1992) Regeneration of plants from long-term root culture of lime, *Citrus aurantifolia* (Christm) Swing. Plant Cell Tissue and Organ Culture. 29 : 19 - 25.~~
- Bitters, W. P., Murashige, T., Rangan, T. S. and Nauer, E. (1970) Investigations on established virus-free *Citrus* plants through tissue culture. *Calif. Citrus Nurserymen's Soc.* 9 : 27 - 30.
- Bitters, W. P., Mc Carty, C. D. and Cole, D. A. (1973) Evaluation of trifoliata orange. *I. Congreso Mundial de Citricultura. Muracia Valencia Spain*, Vol. 2 pp. 557 - 563.
- Bonnett, H. and Torrey, J. G. (1965) Chemical control of organ formation in root segments of *convolvulus* cultured in vitro. *Plant Physiol.* 40: 1228 - 1236.
- Bonnett, H. T. and Torrey, J. G. (1966) Comparative anatomy of endogeneous bud and lateral root formation in *convolvulus arvensis* roots culture in vitro. *Am. J. Bot.* 53 : 496-507.
- Boulay, M. (1979) Propagation in vitro du doglas (*Pseudotsuga menziesii* Mirb.) par micropropagation de germination aseptique et culture de bourgeons dormants. *Micropropagation d'Arbres Forestier Annales AFOCEL* 12 : 67 - 75.
- Bouzid, S. (1975) Quelques traits du comportement de boutures de *Citrus* en culture *in-vitro*. *C. R. Acad. Sci. (Paris)* 280 : 1689 - 1692.
- Brainerd, K. E., L. H. Fuchigami, S. Kwiatkowski, and C. S. Clark. (1981) Leaf anatomy and water stress of aseptically cultured 'Pixy' Plum grown under different environments. *HortScience* 16 : 173 - 175.
- Brand, M. H. and Lineberger, R. D. (1988) In vitro adventitious shoot formation on mature-phase leaves and petioles of *Liquidambar styraciflua* L. *Plant Sci.* 57 : 173 - 179.
- ~~Broadbent, P., Gellnow, B. I. (1993) Australian, Journal of Experimental Agriculture. 33 : 775 - 780.~~

- Burger, D. W. and Hackett, W. P. (1981) Protoplast culture of several *Citrus* tissues. Hort. Science 16 : 417 - 421.
- Burger, D. W. and Hakett, W. P. (1982) The isolation, culture and division of protoplasts from Citrus cotyledons. Physiol. Plant. 56 : 324 - 328.
- Burger, D. W. and Hackett, W. P. (1986) Gradients of adventitious bud formation on excised epicotyl and root sections of Citrus. Plant Scie. 43 : 229 - 232.
- Bush, S. R., Earle, E. D. and Langhans, R. W. (1976) Plantlets frpm petal segments, petal epidermis, and shoot tips of the periclinal chemera Chrysanthemum morifolium "indianapolis". Am. J. Bot. 63 : 729 - 737.
- Button, J. and Bornman, C. H. (1971). Development of nucellar from unpollinated and unfertilized ovules of the Washington Navel Orange *in-vitro*. J. S. Afri. Bot. 37 : 127 - 134.
- Button, J. and Botha, C. E. (1975) Enzymic maceration of Citrus callus and the regeneration of plants from single cells. J. Ep. Bot. 26 : 723 - 729.
- Button, J. and Kochba, J. (1977) Tissue culture in *Citrus* industry. In: Applied and Fundamental Aspects of Plant Cell, Tissue and Organ Culture. Reinert, J. and Bajaj, Y. P. (eds) Springer-Verlag. Berlin. pp. 70 - 92.
- Button, J. (1978) The effect of some carbohydrates on the growth and organization of citrus ovular callus. Z. Pflanzenphysiol . 88; 61 - 98.
- Cassels, A. C., Barlass, M. (1978) A method of the isolation for the isolation of stable mesophyll protoplast from tomato leaves throughout the year under standard conditions. Physiol Plant 42 : 236 - 242.
- Castle, W. s., Wutscher, H. K., Youtsey, C. O. and Pelosi, R. R. (1988) Citrumelos as rootstocks for Florida citrus. Proceedings of the Florida State Horticultural Society. 101 : 28 - 33.
- Chaturvedi, H. C. and Mitra, G. C. (1974) Clonal propagation of *Citrus* from somatic callus cultures. HortScience. 9 : 118 - 120.
- Chaturvedi, H. C. and Mitra, G. C. (1975) A shift in morphogenetic patteren in *Citrus* callus tissue during prolonged culturues. Ann. Bot. 39 : 683 - 687.
- Chaturvedi, H. C. and Sharma, A. K. (1985) Androgenesis in Citrus aurantifolia (Christm.) Swingle. Planta 165: 142 - 144.
- Cameron, J.W. and Frost, H.B. (1968). Genetics, breeding and nucellar embryony. In : The Citrus Industry, vol. II. Reuther, W., Batchelor, L.D. and Webber, H.J. (eds). University of California, Riverside, p325-370.

- Chen, Z., Wong, M. and Liao, H. (1980) The induction of citrus pollen plants in artificial media. *Acta Genet. Sin.* 7 : 189 - 191.
- Clare, M. V. and Collin, H. A. (1974) Meristem culture of brussels sprouts. *Hort. Res.* 13 : 111 - 118.
- Coombs, J., Hall, D. O. , Long, S. P. and Scurlock, J. M. O. (1985) Techniques in Bioproductivity and Photosynthesis Pergamon Press.
- Cooper, C., Chapot, H., (1977) Fruit production with special emphasis on fruit for processing. vol II. In : Nagy S, Show PE, Veldhis MK (eds) citrus science and technology.. AVI Publ. Westport, p: 27.
- David, W. B., and Wesley, P. H. (1982) The isolation, culture and division of protoplasts from citrus cotyledons. *Physiol. Plant.* 56: 324 - 328.
- Dixon, R.A. (1985). *Plant Cell Culture : A practical approach.* Oxford, England. IRL Press
- Duran-Vila, N., V. Ortega, and L. Navarro. (1989) Morphogenesis and tissue culture of three citrus species. *Plant Cell Tissue Organ Culture* 16 : 123 - 133.
- Edriss, M. H. and Burger, D. W. (1984) In vitro propagation of Troyer Citrange from epicotyl segments. *Sci. Hortic.* 23 : 159 - 162.
- Eliezer S. Louzada, Jude W. Grosser, Frederick G. Gmitter, J., Beatriz Nielsen, and J. L. Chandler. (1992) Eight New Somatic Hybrid Citrus Rootstocks With Potential for Improved Disease Resistance. *HorScience* 27 (9) : 1033 - 1036.
- Epstein, E., Kochba, J. and Hanna, N.(1977) Metabolism of indoleacetic acid by embryogenic and non embryogenic callus lines of 'Shamouti' orange (*Citrus sinensis* Osb.). *Z. Pflanzenphysiol.* 85 : 263 - 268.
- Esau, K. (1965) *Plant anatomy.* 2ed edition. pp. 422 - 480. John Wiley, New York.
- Esen, E. and Soost, R. K. (1972) Tetraploid progenies from 2X and 4X crosses of Citrus and their origin. *J. Am. Soc. Hortic. Sci.* 97: 410 - 414.
- Esen, E. (1972) Uexpected triploids in Citrus: their origin, identification and possible use. *J. Hered.* 62: 329 - 333.
- Frost, H. B. and Soost, R. K. (1968) Seed production: development of gametes and embryos. In citrus Industry Vol. II. Reyther, W., Batchelor, L. D., Webber, H. J. (eds.) Riverside, Univ. California. pp. 290 - 324.
- Frearson,E. M., Power, J. B. and Cocking, E. C. (1973) Develop. Biol., 33-130.

- Fuchigami, L. H., T. Y. Cheng and A. Soeldner. (1981) Abaxial transpiration and water loss in aseptically cultured Plum. J. Amer. Soc. Hort. Sci. 106 : 519 -522.
- Gamborg, O. L., Miller, K. R. and. Ojma, A. (1968) Nutrient requirements of suspension cultures of soybean root cells. Exp. Cell. Res. 50: 151 - 158.
- Gamborg, O. L. and Shyluk, J. P. (1970) The culture of plant cells using amino salts as the sole nitrogen source. Plant Physiol. 50: 598 - 600.
- George, E. F. and Sherington, P. D. (1984) Plant propagation by tissue culture. Hand book and Directory of commercial laboratories Estren Press, Reading, Berks.
- Germana, M. A., Warg, Y. Y., Barbagallo, M. G., Lonnolino, G. and crescimanno, F. G. (1994) Recovery of haploid and diploid plantlets from anther culture of *Citrus clementina* Hort. ex Tan. and *Citrus reticulata* Blanco. J. Hortic. Sci. 69 (3) : 473-480.
- Gill, M. I. S., Singh, Z., Dhillon, B. S. and Gosal, S. S. (1994) Somatic embryogenesis and plantlet regeneration on calluses derived from seedling explants of 'Kinnow' mandarin (*Citrus deliciosa* Tenora).J. Hortic. Scie. 69 (2) : 231 - 236.
- Gmitter, F. G. and Moore, G. A. (1986) Plant regeneration from undeveloped ovules and embryogenic calli of *Citrus*: embryo production, germination, and plant survival. Plant Cell, Tissue Organ Culture. 6 : 139 -147.
- Goh, H. K. L., Rao, A. N. and Loh, C. S. (1988) *In vitro* plantlet formation in mangosteen (*Garcinia mangostana* L.) Ann. Bot. 87 - 93.
- Grinblat, V. (1972) Differentiation of *Citrus* stem in vitro. J. Am. Soc. Hortic. Sci. 97 : 599 - 603.
- Grosser, J. W., Gmitter, F. G. and Chandler, J. L. (1988 a). Intergeneric Somatic hybrid plants of *Citrus sinensis* cv. Hamlin and *Poncirus trifoliata* cv Flying Dragon. Plant Cell Rep. 7:5-8.
- Grosser, J. W., Gmitter, F. G. and Chandler, J. L. (1988 b) Intergeneric Somatic hybrid plants from sexually incompatible woody species; *Citrus sinensis* and *Severinia disticha*. Theor. Appl. Genet. 75 : 397 - 401.
- Goh, H. K. L., and Loh, C. S. (1988) In Vitro Plantlet Formation in Mangoseen (*Garcinia mangostana* L.). Annals of Botany 62: 87 - 93.
- Grosser, J. W., Gmitter, F. G., Tusa, N. and Chandler, J. L. (1990 a) Somatic hybrid plants from sexually incompatible woody speaces: *Citrus reticulata* and *Citropsis gilletiana*. Plant Cell Rep. 8 : 656 - 659.

- Grosser, J. W., Ferderick, G., and Gmitter, J. R. (1990 b) Somatic hybridization of *Citrus* with wild relatives for germplasm enhancement and cultivar development. HortScience, 25:147 - 151.
- Grosser, J. W. and F. G. Gmitter. (1990) Somatic hybridization of *Citrus* with wild relatives for germplasm enhancement and culture development. HortScience 25 : 147 - 151.
- Grout B. W. W. (1975) Wax development on leaf surfaces on *Brassica oleracea* var. Currawong regenerated from meristem culture. Plant Sci. Lett. 5 : 401 - 406.
- Grout, B. W. W. and Aston, M. J. (1977) Transplanting of Cauliflower plants regenerated from meristem culture I. Water loss and water transfer related to changes in leaf wax and to xylem regeneration. Hort. Res. 17 : 1 - 7.
- Grout, B. W. W. and Aston, M. J. (1978) Transplanting of couliflower plants regenerated from meristem culture. II. Carbon dioxide fixation and the development of photosynthetic ability. Horticultural Research 17: 65 - 71.
- Hadley, N. F. (1980) Surface waxes and integumentary permeability. Amer. Sci. 68 : 546 - 553.
- Hazel, Y. Wetzstein and Harry E. Sommer. (1982) Leaf anatomy of tissue-cultured *Liquidambar styraciflua* (*Hamamelidaceae*) during acclimatization, Amer. J. Bot. 69 (10) : 1579 - 1586.
- Hearn, C. J., Hutchinson, D. J., and Barrett, H. C. (1974) Breeding citrus rootstock. HortScience 9 : 357 358.
- Hidaka, T. Yamada, Y. and Shichijo, T. (1979) In vitro differentiation of haploid plants anther culture in *Poncirus trifoliata* (L.) Raf. Jap. J. Breed. 29 : 248 - 254.
- Hidaka, T., Yamada, Y. and Shichijo, T. (1982) Plantlet formation of *Citrus aurantium* L. Jpn. J. Breed 32 : 247 - 252.
- Hidaka, T. (1984) Induction of plantlets from anthers of 'Trovita' orange (*Citrus sinensis* Osb.). J. Jap. Soc. Hort. Sci. 53 : 1 - 5.
- Hidaka, T. and I. Kajiura. (1988) Plantlet differentiation from callus protoplast induced from *Citrus* embryo. Scientia Hort. 34 : 85 - 92.
- Hidaka, T., and M. Omura, (1989) Control of embryogenesis in Citrus cell culture: regeneration from protoplasts and attempts to callus bank. Bull. Fruit Tree Res. Stn. Jpn. B. 16 : 1 - 17.
- Hisato, K. , Kagani, H. and Mii, M. (1991). Somatic embryogenesis and plant regeneration from protoplasts of *Satsumas* mandarin. Scientia Horticulturae 47: 27-33.

- Iwamasa, M. (1966) Studies on the sterility in the genus *Citrus* With special reference to the seedlessness. Bull Hortic Res Stn Jpn (Ser B) 6: 1 - 77.
- Iwasaki, T., Nishura, M., and Okudai, N. (1966) New citrus varieties Okitsu-Wase and Miho-Wase. Bull. Hortic. Res. Sta. Jap. (Ser. B) 6 : 83 - 93.
- Jarrel, D. C. Roose, M. L., Traugh, S. N., and Kupper, R. S. (1992) A genetic map of Citrus based on the segregation of isozymes and RFLPs in an intergeneric cross Theor. Appl. Genet. 84 : 49 - 56.
- Keller, W. A. and G. Melchers. (1973) The effect of high pH and Calcium on tobacco leaf protoplast fusion. Z. Naturforschung 28 : 737 - 741 (Cited in Sim, 1989)
- Kitto, S. L. and Young, M. J. (1981) *In-vitro* propagation of carizo citrange. HortScience. 16 : 305 - 306.
- Ko, W. W. (1992) Citrus varieties and rootstocks of Cameron Highlands, Malaysia Agricultural Research and Development Institute (MARDI). Report No. 145 (1992).
- Kobayashi, J. and Button, J. (1972) The stimulation of embryogenesis and embryoids development in habituated callus from the ' Shamouti ' orange (*Citrus sinensis*) as affected by tissue age and sucrose concentration. Z. Pflanzphysiol. 73 : 415 - 421.
- Kobayashi, S., Uchimiya, H. and Ikeda, I. (1983) Plant regeneration from "Trovita" orange protoplasts, Japan. J. Breed. 33 : 119 - 122.
- Kobayashi, S., Ikeda, I. and Nakatani, M. (1984) Induction of nucellar callus from orange (*Citrus sinensis* Osb.) ovules and uniformity of regenerated plants. Fruit Tree Res. St. Ser. E 5: 43 - 54.
- Kobayashi, S., Ikeda, I. and Uchimiya, H. (1985) Conditions for high frequency embryogenesis from orange (*C. sinensis* Osb.) protoplasts. Plant Cell, Tissue Organ Culture. 4 : 249 - 259.
- Kobayashi, S. (1987) Uniformity of plant regenerated from orange (*Citrus sinensis* Osb.) protoplasts. Theor. Appl. Genet. 74 : 10 - 14.
- Kobayashi, S., Ohgawara, J., Ohgawara, E., Oiyama, I. and Ishii, S. (1988) A somatic hybrid plant obtained by protoplast fusion between orange (*C. sinensis*) and satsuma mandarin (*Citrus unshiu*). Plant cell, Tissue Organ. Cult. 14 : 63 - 69.
- Kobayashi, S., T. Ohgawara, K. Fujiwara and I. Oiyama. (1991) Analysis of cytoplasmic genomes in somatic hybrids between navel orange (*Citrus sinensis* Osbec.) and "Murcott" tangor. 28 : 6 -10.

- Kochba, J., Spiegel-Roy, P. and Satran, H. (1972) Adventive plants from ovules and nucelli in *Citrus*. *Planta* 106 : 237 - 245.
- Kochba, J. and Spiegel-Roy, P. (1973) Effect of culture media on embryoid formation from ovarian callus of 'Shamouti' orange (*Citrus sinensis*) Z. *Pflanzenzucht*. 69 : 156 - 162.
- Kochba, J., Botton, J., Spiegel-Roy, P., Bornman, C. H. and Kochba, M. (1974) Stimulation of rooting of *Citrus* embryoides by gibberellic acid and adenine sulphate. *Ann. Bot.* 38 : 795 - 802.
- Kochba, J. and Spiegel-Roy, P. (1977) The effect of auxins, cytokinins and inhibitors on embryogenesis in habituated ovarian callus of the 'Shamouti' orange (*Citrus sinensis*). *Z. Pflanzenphysiol.* 81 : 283 - 288.
- Kochba, J., Spiegel-Roy, P., Neuman, H. and Saad, S. (1982) Effect of carbohydrates on somatic embryogenesis in subcultured nucellar callus of *Citrus* cultivars. *Z.Pflanzenphysiol.* 105 : 359 - 368.
- Kordaan, H. A. (1959) Proliferation of excised juice vesicles of lemon *in-vitro*. *Science* 129: 779 - 780.
- Larkin, P. J. (1976) Purification and viability determination of plant protoplasts. *Planta* 128 : 213 - 216.
- Lima, H. Iglesias, L. and Simon, J. P. (1974) Isoenzyme identification of zygotic and nucellar seedlings in *Citrus*. *The Jurnal of Heredity* 65: 81 - 84.
- Lindsey, K. (1991) Plant Tissue Culture Manual. Kluwer Academic Publishers pp.1-23.
- Ling, J. T., N. Nito and M. Iwamasa. (1989) Plant regeneration from protoplasts of Calamondin (*Citrus madurensis* Lour.). *Scientia Hort.* 40 : 325 - 333.
- Ling, J. T., Nito, N., Iwamasa, M. and Hitsu, K. (1990) Plant regeneration from protoplast isolated from embryogenic callus of Satsuma. *HortScience* 25 (8): 970 - 972.
- Linsmaier, E. M. and Skoog, F. (1965) Organic growth factor requirements of tobacco tissues. *Physiol. Plant* 18 : 100 - 127.
- Lundergan, C. A. and Janick, J. (1980) Regulation of apple shoot proliferation and growth *in-vitro*. *Hortic. Res.* 20 : 19 - 24.

- Marin, M. L. and Duran-Vila, N. (1991) Conservation of Citrus germplasm *in vitro*. J. Amer. Soc. Hort. Sci. 116 : 740 - 746.
- Masashi Hirai, and Ichiro Kajiura. (1987) Genetic analysis of leaf isozyme in Citrus. Japan J. Breed. 37 : 377 - 388.
- Masashi Hirai, Shuichi Mitsue, Keiji Kita and Ichiro Kajiura. (1990) A survey and isozyme analysis of wild mandarin, Tachibana (Citrus tachibana (Mak.) Tanaka) growing in Japan. J.Japan Soc. Hort. Sci. 59 (1) : 1 - 7.
- Masheswari, P. and Rangaswamy, N. S. (1958) Polyembryony and *in vitro* culture of embryos of *Citrus* and *Magnifera*. Indian J. Hortic. 15 : 275 - 282.
- Matsumoto, K. and Yamaguchi, H. (1983) Induction of adventitious buds and globular embryoids on seedling of Trifoliolate Orange (*Poncirus trifoliata*). Jap. J. Breed. 33 : 123 - 129.
- Mhatre, M., Bapat, V. A. and Rao. P. S. (1985) Regeneration of plants from culture of leaves and axillary buds in mulberry (*Morus Indica L.*). Plant Cell Rep. 4 : 78 - 80.
- Mitra, G. C., Chaturvedi., H. C. (1972) Embryoids and complete plants from unpollinated ovaries and from ovules of *in-vitro* grown emasculated flower buds of Citrus spp. Bull. Torrey Bot. Club 99 : 184 - 189.
- Moore, G. A. (1985) Factors affecting *in vitro* embryogenesis from undeveloped ovules of mature *Citrus* fruit. J. Am. Soc. Hort. Sci. 110 : 66 - 70.
- Murashige, T. and Skoog, F. (1962) A revised medium for rapid growth and bioassays with tobacco tissue cultures. Physiol. Plant. 15 : 473 - 497.
- Murashige, T. and Tucker. D. P. H. (1969) Growth factor requirements of Citrus tissue culture. In : Proceeding of the First International Citrus symposium. University of California, Riverside 3 : 1155 - 1161.
- Naima, B. (1991) Plant regeneration from callus culture of three *Citrus* rootstock. Plant cell, Tissue and Organ Culture 24 : 29 - 34.
- Natalie, P. and Margareta, W. (1994) Adventitious shoot regeneration from leaf segments of *in vitro* cultured shoots of the apple rootstock Jork 9. J. Hortic. Scie. 69 : (4) 687-696.
- Navarro, L., Roitcher, C. N. and Murashige, T. (1975) Improvement of shoot tip grafting for virus-free Citrus clones J. Am. Soc. Hortic. Sci. 100 : 471 - 479.

- Nel, M. (1987) In vitro culture of Citrus meristems. Info. Bul. Citrus and subtropical fruit. Inst. South Africa. 175 : 9 - 12.
- Nito, N. and Akihama, T. (1990) In : Proc. of the 4th International Asia Pacific Conference on *Citrus* Rehabilitation.
- Nobel, P. S. (1983) Biophysical Plant Physiology and Ecology. W. H. Freeman, San Francisco.
- ^a
Nobumasa, N. and Masao, I. (1990) In vitro plantlet formation from juice callus of satsuma (*Citrus unshiu* Marc.) Plant Cell, Tissue and Organ Culture 20 : 137 - 140.
- ^b
Nobumasa N. and Tomoya Akihama. (1990) Prospects of Citrus and related genera for virus disease resistant rootstock. Proceeding of the 4th International Asia Pacific Conference on Citrus Rehabilitation Chiang Mai, Thailand, 4 - 10th Feb. 1990.
- Norlaila, A. H. (1994) Kesan Cahaya Ke Atas Beberapa parameter fisiologi yang berkaitan dengan pertumbuhan enam spesies legum. Msc. Tesis. Jabatan Botani, Universiti Malaya, Kuala Lumpur. Malaysia.
- Norrizah, J. S. (1993) Keamatan cahaya dan produktiviti dalam lima spesies Ulam Terpilih. Msc. Tesis. Jabatan Botani, Universiti Malaya, Kuala Lumpur, Malaysia.
- Ochatt, S. J., Patat-Ochatt, E.M., Rech, E. L., Davey, M. R., and Power, J. B. (1989) Theor Appl Genet 78 : 35 - 41.
- Ohgawara, S. Kobayashi, S. Ishii, E. Ohgawara, H. Uchimiya and Ishii. (1985) Somatic hybrid plants obtained by protoplast fusion between *Citrus sinensis* and *Poncirus trifoliata*. Theor Appl Genet 71 : 1 - 4.
- Ohgawara, S. Kobayashi, S. Ishii, K. Yoshinaga and I. Oiyama. (1989) Somatic hybridization in Citrus: navel orange (*Citrus sinensis* Osb.) and grape fruit (*C. paradisi* Macf.). Theor Appl Genet 78 : 908 - 912.
- Ohgawara, S. Kobayashi, S. Ishii, K. Yoshinaga and I. Oiyama. (1991) Fertile fruit trees obtained by somatic hybridization: navel orange (*Citrus sinensis* × *Poncirus trifoliata*). Theor Appl Genet 81 : 141 - 143.
- Oka, S. and Ohyama, K. (1981) In vitro initiation of adventitious buds and its modification by high concentration of benzyladenine in leaf tissues of mulberry (*Morus alba*). Can. J. Bot., 59 : 68 - 74.
- Oka, S. and Ohyama, K. (1985) Plant regeneration from leaf mesophyll protoplasts of *Broussonetia kazinoki* Sieb. J. Plant Physiol., 119 : 455 - 460.

- Okamura, M., Hayashi, T., Miyazaki, S. (1984) Inhibiting effect of ammonium ion in protoplast culture of some Asteraceae plants, *Plant Cell Physiol.* 25 : 281 - 286.
- Patena, L. F., Barba, R. C. and Estrella, J. B. (1978) Tissue culture of (*Citrus mitis Blanco*) and Pummelo (*Citrus grandis Osbeck*). *Philipp. J. Crop Sci.* 3 (32) : 135 - 156.
- Peterson, R. L. (1975) The initiation and development of root buds, in: J. G. Torrey and D. T. Clarkson (Eds.), *The Development and function on exercised epicotyl and root sections of Citrus*. *Plant Sci.*, 43 : 229 - 232.
- Pospisilova, J. Catsky, Jarmila Solarova and Ingrid Ticra. (1987) Photosynthesis of Plant Regenerants. Specificity of in vitro conditions and Plantlet Response. 29 (6) : 415 - 421.
- Power , J. B., and E. C. Cocjing. (1970) Isolation of leaf protoplasts : Macromolecule uptake and growth substance response. *J. Exp. Bot.* 21 : 64 - 70.
- Prainerd, K. E. and Fuchigamai, L. H. (1981) Acclimatization of aseptically cultured Apple plants to low relative humidity. *J. Amer. Soc. Hort. Sci.* 106 : 515 - 518.
- Primo Millo, E. and Harada, H. (1976) Control hormonal de la information de cals, bourgeons et racines sur des entrenoeuds de Citrange Troyer (hbride de *Citrus sinensis* var. Washington navel \times *Poncirus trifoliata* in vitro. *Ann. Inst. Nac. Invest. Agar. Ser. Prod. Veg. (Spain)* 6 : 9 - 26.
- Purseglove, J. W. (1984) Tropical Crops. Dicotyledons 2. Longmans pp. 493 - 522.
- Raj Bhansali, R. and Arya, H. C. (1978a) Shoot formation in stem and root callus of *Citrus aurantifolia* (Christm) Swingle grown in culture. *Curr. Sci.* 47 : 775 - 776.
- Raj Bhansali, R. and Arya, H. C. (1978b) Tissue culture of Citrus trees. *Proc. Int. Soc. Citric.* 1978. pp. 135 - 140.
- Raj Bahansali, R. and Arya H. C. (1979) Organogenesis in *Citrus limettoides* (sweet lime) callus culture. *Phytomorphology* 29: 97 - 100.
- Rangan, T. S., Murashige, T. and Bitters, W. P. (1968) *In vitro* initiation of nucellar embryos in monoembryonic *Citrus*. *HortScience* 3: 226 - 227.
- Rangan, T. S., Murashige, T., Bitters, W. P. (1969) *In vitro* studies of zygotic and nucellar embryogenesis in Citrus. *Proceedings First International Citrus Symposium*. Vol. 1. pp. 225 - 229.

- Rao, A. N., Yeow, M. S., Kothagoda, N. and Hutchinson, J. F. (1981) Cotyledon tissue culture of some tropical fruits. In: Proc. COSTED Symp. on Tissue Culture of Economically Important Plants. Singapore.
- Rangaswamy, N. S. (1961) Experimental studies on female reproductive structure of *Citrus microcarpa* Bunge. Phytomorphology 11 : 109 - 127.
- Rangaswamy, N. S. (1975) Morphogenesis in explants of *Citrus microcarpa* Bunge grown *in vitro*. Indian J. Exp. Biol. 13 : 213 - 215.
- Recupero, G. R., and Russo, F. (1989) The Behaviour of various citrus rootstocks after the frosts of March 1987. Rivista-di-Frutticoltura-e-di-Ortofloricoltura. 51-52 : 33 - 36.
- Reitz, H. J. (1984) The World Citrus Crop.
- Reuther, W. Webber, H. J. and Batchelor, H. J. (1967) The Citrus Industry. Vol. 1: pp. 190 - 431. Revised edition, Uni. Calif. Div. of Agric. Sci. Press, Berkeley.
- Robinson, T. R. (1952) Grapefruit and pommelo. Econ. Bot. 6 : 228 - 245.
- Sabharwal, P. S. (1963) *In vitro* culture of ovules, nucelli and embryos of *Citrus reticulata* Blanco var. Nagpuri. In : Plant tissue and Organ Culture. A Symposium. Delhi Maheswari, P. and Rangaswamy, N. S. (eds.) Int. Soc. Plant Morphol. pp. 265 - 274.
- Samson, J. A. (1980) Citrus In Tropical Fruits Longman, London, New York. pp. 64 - 118.
- Samson, J. A. (1986) Citrus. In *Tropical fruits*. 2ed ed. Longman Inc. New York. pp. 74 - 138.
- Sauton, A. K. and Mouras, A. and Lutz, A. (1982) Plant regeneration from *Citrus* root meristems. J. Hortic. Sci. 57: 227 - 231.
- Schroeder, C. A. and Spector, C. (1957) Effect of gibberellic acid and indolacetic acid on growth of excised fruit tissue. Science. 126 : 701 - 702.
- Sim Gueek-Eng, Chiang Loh, and Chong-Jin Goh. (1988) Direct somatic embryogenesis from protoplast of *Citrus mitis* Blanco. Plant Cell Reports 7 : 418 - 420.

- Sim, G. E., Goh, C. J. and Loh, C. S. (1989) Micropropagation of *Citrus mitis* Blanco. multiplebud formation from shoot and root explant in the presence of 6-benzylaminopurine. Plant Sci. 59 : 203 - 210.
- Singh, V. P. (1963) Raising nucellar seedlings of some Rutaceae *In-vitro*. In: Plant Tissue and Organ Culture. A symposium Delhi, Maheshwari P. Rangaswamy, N. S. (eds) Intern. Soc. Plant Morphologists. pp. 275 - 276.
- Skoog, F. and Miller, C. O. (1957) Chemical regulators of growth and organ formation in plant tissue cultured in vitro. Symp. Soc. Exp. Biol. 11 : 118 - 131.
- Smith, M. M., Hartley, R. D. (1983) Occurrence and nature of ferulic acid substitution of cell-wall polysaccharides in graminaceous plants. Carbohydr Res. 118 : 65 - 80.
- Soost, P. K. (1964) Self incompatibility in *Citrus grandis* (Linn.) Osbeck. Am. Hortic. Sci. 48: 137 - 140.
- Soost, R. K., Cameron, J. W. (1975) Citrus. In: Janick, J., Moore, J. N. (eds) Advances in fruit breeding. Purdue Univ. Press, West Lafayette, Ind., pp. 504 - 540.
- Sundberg, E. and Glimelius, K. (1986) A method for production of interspecific hybrids within Brassiceae via somatic hybridization, using resynthesis of Brassica as a model. Plant Sci. 45 : 155 - 162.
- Starrantino, A. and Russo, F. (1980) Seedling from undeveloped ovules of ripe fruits of polyembryonic citrus cultivars. HortScience 15 : 296 - 297.
- Starrantino, A. and A. Caruso. (1988) The in vitro culture technique for the micropropagation of citranges and trifoliate orange cv. Flying Dragon. Instituto sperimentale per L'Agromicoltura. Italy . 17 - 18 : 259 - 271.
- Sutter, E., and R. W. Langhans. (1979) Epicuticular wax formation on Carnation plantlets regenerated from shoot tip culture. J. Am. Soc. Hort. Sci. 104 : 493 - 496.
- Swingle, W. T. (1943) The botany of *Citrus* and its wild relatives of the orange subfamily., In H. J. Webber and L. D. Batchelor (eds.), The citrus industry. Vol. 1. pp. 129-474. Univ. Calif. Press, Berkeley.
- Swingle, W. T. (Revised by Reece, P. C.) (1967) The botany of *Citrus* and its wild relatives of the orange subfamily. In : The Citrus Industry. I. Reuther, W., Batchelor, L. D. and Webber, H. J. (eds.). Univ. Calif. Press, Berkeley. pp. 190 - 430.
- Tanaka, T. (1954) Species problem in *Citrus* (Revisio Aurantia Cearum 1 x). Japanes Society Promotion Science, Ueno, Tokyo, pp. 152-160.

- Tanimoto, S. and Harada, H. (1980) Hormonal control of morphogenesis in leaf explants of *Perilla Frutescens* Britton var. *Crispa* Decaisene F. *Viridi Crispa* Makino. Ann. Bot. 45 : 321 - 327.
- Tanimoto, S. and Harada, H. (1982) Physiological and hormonal factors influencing organogenesis in *Rudbeckia bicolor* explants cultured in vitro. plant Cell Physiol. 23 : 107 - 113.
- Tisserat, B., Esan, E. B., and Murashige, T. (1979) Somatic embryogenesis in Angiosperms. In: Horticultural reviews (J. Janick, ed.) vol. 1. 1 - 78, Purdue Univer. AVI Pub.
- Tisserat, B. and Galletta, P. D. (1987) *In vitro* culture of lemon juice vesicles. Plant Cell, Tissue Organ Cult. 11 : 81 - 95.
- Tusa, N., Grosser, J. W., and Gmitter, F. G. (1991) Plantregeneration of 'Valencia' sweet orange, 'Femmilleno' lemon, and the interspecific somatic hybrid following protoplast fusion. J. Amer. Soc. Hort. Sci. 115: 1043 - 146.
- Uchimiya, H. (1982) Somatic hybridization between Male-sterile. *Nicotiana tabacum* and *N. glutinosa* through protoplasts fusion.Ther Appl Genet. 61 : 69 - 72.
- Vardi, A., Spigel-Roy, P. and Galun, E. (1975) Citrus cell culture: Isolation of protoplasts, plating densities, effect of mutagens, and regeneration of embryos. Plant Sci. Lett. 4 : 231v- 236.
- Vardi, A . and Raveh, D. (1976) Gross-feeder experiments between tobacco and orange protoplasts. Z. Pflanzenphysiol. 78 : 350 - 359.
- Vardi, A. (1977) Isolation of protoplasts in *Citrus* Proc. Int. Soc. Citriculture, 2 : 575- 578.
- Vardi, A. and Spiegel-Roy, P. (1978) Citrus breeding, taxonomy and the species problem. Proc. Soc. Citriculture 51 - 57.
- Vardi, A. (1978) Studies on isolation and regeneration of orange protoplasts. In: Pro. Int. Sym. Plant Cell Culture. Alfermann, A. W. and Reinhard, E. (eds.). Munich; Gesell strahl. Umwelforsch. pp. 234 - 242.
- Vardi, A., Spiegel-Roy, P. and Galun, E. (1982) Plant regeneration from *Citrus* protoplasts: Variability in methodological requirments among cultivars and species. Theor. Appl. Gene. 62 : 171- 176.

- Vardi, A., Hutchison, D. J. and Galun, E. (1986) A protoplast-to-tree system in *Microcitrus* based on protoplasts derived from a sustained embryogenic callus. Plant Cell Rep. 5 : 412 - 414.
- Vardi, A. Breiman and E. Galun. (1987) *Citrus* cybrids production by donor-recipient protoplast-fusion and verification by mitochondrial-DNA restriction profiles. Theor Appl Genet 75 : 51 - 58.
- Vardi, A. Galun, E. (1988) Recent advances in protoplast culture of horticulural crops. Citrus. Sci. Hortic. 37: 217 - 230.
- Vardi, A., Arzee-Gonen, P., Frydman-Shani, A. Bleichman, S. and Galun, E. (1989) Protoplast-fusion-mediated transfer of organelles from *Microcitrus* into *Citrus* and regeneration of novel alloplasmic trees. Theor Appl Genet 78 : 741 - 747.
- Wardale, K., E. B. Doods, and K. C. Short. (1983) In vitro acclimatization of aseptically cultured plants to humidity. J. Amer. Soc. Hort. Sci. 108(3) : 386 - 389.
- Walkey, D. G. A. and Matthews K. A. (1979) Plant Sci. Lett. 14 : 287 - 290.
- Wang, T. Y. and Chang, C. J. (1978) Triploid citrus plantlet from endosperm culture. In : Proceeding of Symposium a plant Tissue Culture, Peking. Science Press, Peking. pp. 463 - 467.
- Wong, K. W. and Loh, C. S. (1988) In vitro regeneration of plantlets from root segments of *Brassica alboglabra* Bailey. Sci. Hortic. 35 : 7 - 14.
- Xu, Z. H., Davey, M. R. and Cocking, E. C. (1981) Isolation and sustained division of *Phaseolus aureus* (mung bean) root protoplasts. Z-Pflanzenphysiol. 104: 289 - 298.
- Zhong, G. Y., (1993) A numerical taxonomic study of citrus and its relatives. Acta Phototaxonomica Sinica, 31 : 252 - 260.