LITERATURE CITED

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Abbas, W.A. (1999): Effect of some additives onto tolerance of olive plants to salinity. M. Sc. thesis, Faculty of Agric., Cairo University.

Abd El-Gawad, N.M.A. (2001): Studies on Acclimatization of tissue culture communis pear rootstock. M. Sc. Thesis faculty of Agric. Moshtohor, Zagazig University.

Abd El-Ghani, N.A. (1990): Studies on propagation of grape rootstocks and their tolerance to salinity. the effect of salinity on mango seedling. Ph.D. Thesis, Fac. Agric., Cairo Univ., Egypt.

Abd El-Karim, N.Y. (1991): Studies on the effect of salinity on mango seedling. Ph.D. Thesis, Fac. Agric., Ain Shams Univ., Egypt.

Abd El-Rahman, A.S. (1992): Salt tolerance of some grapevine rootstocks. Ph.D. Thesis Faculty of Agric., Cairo University.

Abo El-Khashab, A.M. (1997): Amelioration of salt stress in peach and olive seedlings by means of paclobutrazol. Ph.D. thesis, Faculty of Agric., Kafr El-Sheikh, Tanta University.

Abo El-Soaud, A.A. (1999): Studies on date palm propagation through tissue culture. M. Sc. Thesis, Department of Pomology, Faculty of Agriculture, Cairo University, Egypt, pp. 62.

Ahmed, F.F. and G.M. El-Dawwey (1992): What type of saline water could Red Roomy grapevine seedlings tolerate and at which concentration? I-Growth and leaf chemical composition. Minia J. of Agric. Res. Dev., 14: 65-81.

Ahmed, R.M. (2000): Salt tolerance responses and enhancement of some banana genotypes *in vitro*. M.Sc. Department of Pomology, Faculty of Agric., Cairo University.

Aier, N.B. and S.D. Sharma (1990): Micropropagation in some plum cultivars. Fruit Science Reports, 17(2):57-63.

Ainsely, P.J.; G.G. Collins and M. Sedgley (2001): *In vitro* rooting of almond (*Prunus dulcis Mill.*). *In Vitro* Cellular and Developmental Biology Plant, 37(6): 778-785.

Aktinson, C.J.; A.D. Welter; M. Policarpo and A. Kuden (1997): Drought sensitivity of apple rootstocks. J. Acta Horticulturea, No. 451, 171 –178.

Ali, H.M. (2000): Trials to improve propagation of some citrus root stocks by using Embryo culture techniques. M. Sc. Thesis Department of Horticulture Faculty of Agriculture, Moshtohor Zagazig University, Benha Branch.

Al-Traif, A.; A. Rabouma and M. Al-Marakishi (1998): Identification of some Tunisian date plam cultivars through (RAPD). Scientifical symposium on date plam researches, Morocco, 16-18 Feb. 1998 pp.198-208. Edited by: Date plam Research and development Network. The Arab Center for the Studies of Arid Zones and Drylands. Damascus, Syria.

Ambrozic-Turk, B.; J. Smole and A. Sifter (1992): Micropropagation of plum ecotype (*Prunus domestical*) as rootstock for apricots. Acta Hort. No.300, 111-114.

Anderson, N.; H. Byrne; J. Sinclair and A.M. Burrell (2002): Cooler temperature during germination improves the survival of embryo cultured Peach seed. HortScience, 37(2): 402–403.

AOAC (1985): Official Methods of Analysis 14th ed. Association of Official Agric. Chemists Washington. DC, USA.

Atia, Sh.A. (2002): Studies on growth of olive plants under salt stress. Ph.D. Thesis. Faculty of Agric., Cairo University.

Autio, W.R., J.R. Schupp; D.C. Ferree; R. Glavin and D. Mulcahy (1998): Application of RAPD to DNA extracted from apple rootstocks. HortScience, 33(2):333-335.

Banuls, J.; F. Legaz and E. Primo-Millo (1990): Effect of salinity on uptake and distribution of chloride and sodium in some citrus scion-rootstock combination. J. Hort., Sci., 65 (6): 715-724.

Baraldi, R.; G. Bertazza; A.M. Bregoli; S. Predieri; J.P. Slovin and J.D. Cohen (1995): Auxin and polyamines in relation to differential *In vitro* root induction on microcuttings of two pear cultivars. J. Plant Growth Regulators, 14: 49-59.

Bassi, D. (1984): In vitro propagation of the European plum Prune d'Agen, clone 707. Rivista di Frutticolturae di Ortoflorıcltura, 46 (2):31-34 (Hort. Abst., 56, 6850).

Bates, L.S.; R.P. Waldern and I.D. Teare (1973): Rapid determination of free proline for water stress studies. Plant Soil, 939: 205-207.

Baubault, C.; V. Lonoy; F. Baudier and Ducommun (1991): *In vitro* preservation of Rododendron during multiplication and rhizogensis stages. Acta Hort., 298: 355-358.

Bayomy, M.K. (1998): Studies on micropropagation of pomes. M. Sc. Thesis, Fac. Agric. Moshtohor, Zagazig University.

Bayoumy, M.K. (2004): Biotechnological and pathological studies on some pear rootstocks. Ph.D. (Hort.), Faculty of Agric. Moshtohor, Zagazig University.

Belin, J. and M. Duron (1999): A new Cultivar of Caryopteris from mutagenesis. PHM Revue Horticulture, 407: 31-35.

Bell, R.L.; R. Scorza; K. Webb and C. Srinivasan (1999): Transformation of "Beurre BoSc" pear with the ro1C gene. Journal of the American Society for Horticultural Science, 124(6): 570-574.

Benega, R.; L. Viciedo; J. Martinez; E. Castillo; A. Cisneros; M. Romero; M. Isidron; Z.J. Fernande and E. Arias (1996): Effect of gamma irradiations on pineapple pollen germination and tube growth. Fruits Paris, 51 (6): 425–428.

Biasi. L.A.; C.M. Falco; M.P.A. Rodringguez; J.B.M. Mendes (2000): Organogenesis from inter nodal segments of yellow passion fruit. Acta Hort., 57(4): 661–665.

Biricolli, S. and S. Pucci (1995): Effect of increasing NaCl rates on " red haven "Peach" and "GF 677" rootstock cultured *in vitro*. Advances in Hort. Sci., 9 (2):75-78.

Bondok, A.; H. Tawfic; A. Shaltout and N. Abd El-Hamid (1995): Effect of salt stress on growth and chemical constituents of three peach root stocks. Assiut J. of Agric. Sci, 26(1): 173-194.

Bondok, A.Z.; S.Z. El-Agamy and A.H. Gomaa (1989): *In vitro* propagation of Marianna 2624 plum rootstock. Egyptian Journal of Horticulture, 16(1):9–16.

Bondok, M.; N. Abd El-Hamid and H. El-Wakeel (1996): Bud break, Fruit maturity and Yield of Peach salt stress on proline. Annals Agric. Sci., Ain-Shams Univ., 40(1): 343-358.

Botta, R.; A. Akkak; G. Me; L. Radicati; V. Casavecchia; S. Scammerini; A. Baker; Char Lwood; C. Damiano, C. Franz and S. Giamninizzi (1998): Identification of pear cultivars by molecular markers. Acta Hort., 457: 63-70.

Brandifeld, E.G. and D. Spincer (1965): Determination of manganese, Zinc, iron and copper by atomic absorption spectroscopy. J. Sci. Food Agric., 16: 33-38.

Caboni, E. (1994): Peroxidase activity and *in vitro* rooting in an almond (*Prunus dulcis* Mill) genotype. Acta Horticulture, 373, 201-205.

Caboni, E.; S. Speranza and C. Damiano (1994): Effect of gibberellic acid on in vitro rooting of almond. Advances in Horticultural Science, 8(1): 53-55.

Campton, M.E. and D.J. Gray (1996): Effect of sucrose and melhylgyoxal bis (guany horazone) on controlling grape somatic embryogenesis. Vitis, 35 (1): 1-6.

Chandel, J.S. and J.S. Chouyhan (1991): Accumulation of Proline, ABA and carbohydrate contents in starking Delicious apple on clonal rootstocks and their correlation with drought resistance. J. Progressive Horticulture, 23(1-4):5-11.

Channuntapipat, C.; M. Sedgley; G. Collins and Channuntapipat-Chockpisit (2003): Micropropagtion of almond cultivars Nonpareil and Ne plus Ultra and the hybrid rootstock Titan X Nemaguard. Scientia Horticulturea, 98(4):473–484.

Channuntapipat, G.; G. Collins; T. Bertozzi and M. Sedgley (2000): Cryopreservation of *in vitro* almond shoot tips by vertification. Journal of Horticultural science and Biotechnology. 75(2): 228-232.

Charbaji, T. and I. Nabulsi (1999): Effect of low doses of gamma irradiation on *in vitro* growth of grapevine. Plant cell, Tissue and Organ Culture, 57 :129-132.

Cools, H.J.; H. Ishii; J.A. Butters and D.W. Hollomon (2002): Cloning and sequence analysis of the eburicol 14 alpha demethylase encoding gene (CYP51) from the Japanese pear scab fungus *Venturia nashicola*. Journal of Phytopathology, 150(8-9): 444-450.

Dantas, A.C. de M.; A.N. Nesi; L.B. Machado; J. Haerter and L. Fortes de Fortes (2002): Establishment and multiplication of *Pyrus* spp. cultivars *in vitro*. Departmento de fitotecnia, FAEM /UFPEL, Brazil.

Darlewska, M. (1997): Variation in plant traits of rye (*Secale cereale* L.) induced by Sodium azide treatment. Plant Breeding Abst. 68:66-88.

Delos Rios, V.; A. Perdomo; H. Elosegui and P. Perez (1992) Measurements of intracellular pH in a salinity tolerant citrus hybrid. Revista Biologia (Habana), 6(2):140-143.

Dolcet-Sanjuan, R. and E. Claveria (1995): Improved shoot tip micropropation of *Pistacia vera* L. and the beneficial effects of methyl Jasmonate. J. Amer. Soc. Hort. Sci., 120:139-882.

Dorion, N.; M. Kadri and C. Bigot (1991): *In vitro* preservation at low temperature of rose plantlets usable for direct acclimatization. Acta Hort., 298 : 335 –343.

Dubois, M.; F. Smith; K.A. Gilles; J. Hamilton and P.A. Rebers (1966): Colorimetric method for determination of sugars and related substances. Annal. Chem., 28(3): 350-356.

Duncan, H.B. (1955): Multiple range and multiple F-test. Biometrics, 11: 1-42.

El-Azab, E.M.; E.M. El-Kobbia and H.M. El-Khayat (1998): Effect of three sodium salts on vegetative growth and mineral composition of stone fruit rootstock seedling. Alex. J. of Agric. Res., 43 (3): 219-229.

El-Hadidy, N.F. (2000): Micropropagation of citrus by using ovule culture techniques. M. Sc. (Hort.) Faculty of Agric. Moshtohor, Zagazig University.

El-Hammady, A.; A. Montasser; W. Wanas and N. Abd El-Karim (1993): Organic constituents of mango seedlings as affected by salinized irrigation water. Egypt. J. Apple. Sci., 8(4): 1-18.

El-Hammady, A.M.; W.H. Wanas; M.T. El-Saidi and M.F.M. Shahin (1999): Impact of proline Application on the growth

of grape explants under salt stress *in vitro*. Arab Univ. J. Agric. Sci., Ain-Shams Univ., Cairo, 7(1) 191-202.

El-Hawary, A.H. (1987): Studies on propagation of grape rootstocks and their tolerance to salinity. Ph.D. Thesis Fac. of Agric. Cairo University.

El-Motaium, R., H. Hu and P.H. Brown (1994): The relative tolerance of six prunus root stocks to boron and salinity. J. of the American. Society for Hort. Science, 119(6): 1169-1175.

El-Said, M.E.; H.E. Emtithal, A. Hamoda and S.A. Sari Eldin (1995): Studies on the susceptibility of some olive cultivars to salinity. Zagazig J. Agric. Res., 22: 2314-2328.

El-Shazly, S.A. (1993): Effect of salinity, Sodium adsorption ratio of irrigation water and benzyl adenine spray on growth and chemical constituents of Thompson seedless grape transplant. Egypt. J. Apple. Sci., 8(9)532-553.

El-Siddig, K. and P. Ludders (1995): N-nutrition and salinity tolerance in apple trees. J. Angewan de Botanik Berichte, No (5) 184-188.

El-Tarras, A.; Y.A. Hossni and A.A. El-Banna (2000): Application of RAPD analysis for identification and genetic analysis of somaclonal variation in *Anauas comosus* variegatum. Egyptian Journal of Horticulture, 26: 197–108.

El-Tomi, A.L.; A.S. Montasser; Z. Behairy; M.A. Salama and R. Bedair (1988): Effect of irrigation on growth, mineral status and anatomy of Hindi banana suckers. Proc. Conf. Agric. Develop. Res., Ain Shams University.

Emtithal, H.E.; M.E. El-Said; A.H. El-Sherif and S.A. Sari Eldin (1995): Chemical studies on salt tolerance of some olive cultivars. Zagazig J. Agric. Res., 22: 2425-2439.

Endo, M.; Kim-Jungshim and I. Inada (1997): Production and characteristics of chromosome doubled plants of small flowered garden chrysanthemum, Dendran ihema X gradiflorum (Ramat.) Kitam. cv. Ys by colchicine treatment of cultured shoot tips. J. of Japanese Soc. For Hort. Sci., 56: 825–833.

Eremin, G.V. and V.N. Podorozhnyi (1992): Production of healthy planting material of cherry plum and stone fruit crop rootstocks. Sadovodstvo i Vinogradarstvo, No. 8; 11–12.

Farid, S.A. (1997): Studies on the vegetative propagation of some nut trees. M. Sc. Thesis, Hort., Fac. Agric. Moshtohor, Zagazig Univ., Egypt.

Fathi, M. and B. Catlin (1994): Screening of some prunus root stocks for relative salt tolerance. J. Agric. Sci. Mansoura Univ., 19(3): 1125-1135.

Feng, S.; Y. Wang and J. Lou (1998): Effect of NaCl and Na_2CO_3 stress on contents of P, Na and proline in *Malus zumi* plants. Crop Science, 30: 781-785.

Fernadez, R.T.; R.L. Perry and J.A. Flore (1997): Drought response of young apple trees on three rootstocks: growth and development. J. Amer. Soc. Hort. Sci., 122(1):14-19.

Ferreira, G; F.J. Tavora and F.F. Fernandez (2001): Dry matter partitioning and chemical composition of roots, stems and leaves of guavas subjected to salt stress, Revista Brasileira de Fruticultura, 36(1): 79-88. (Hort. ABst., 71:5878).

Fitchet, M. (1990): Clonal Propagation of Queen and Smooth Caynna pineapple. Acta Horticulturae. No 275: 261–266.

Fortes, G.R. de L.; J.E.S. Pereira and G.R. de L. Fortes (2001): *In vitro* establishment of plum cv. America. Revista Brasileira de Fruticultura, 23(1):183-185.

Fouad, M.M.; A.H. Gomaa and M.H.A. El-Zaher (1995): Factors influencing *in vitro* establishment and multiplication stages of peach. Acta Horticulture, 409: 191–196.

Franc, P. (1998): The effect of different carbon sources and cultivars on *in vitro* micropropagation of some rootstocks of the genus *Prunus* L. Zahradnictvi, 25(3):93-100.

Gamage, N.; T. Nakanishi; L.H.W. Plasvan and G.J. de Klerk (2000): *In vitro* shoot regeneration from leaf tissue of apple cultivar. Proceedings of the International Horticultural Congress, Part 10 Application of Biotechnology and Molecular Biology and Breeding, *In Vitro* Culture. Acta Horticulturea, 520: 291–299.

Gamborg, O.L.; R.A. Miller; K. Ojima (1968): Nutrient requirements of suspension culture of soybean root cells. Exp., Cell Res., 50: 151-158.

Gardi, T.; M. Micheli; E. Piccioni; G. Sisani and A. Standardi (2001): Cold storage of micropropagated shoots of some fruit species. Italus Hortus, 8(4): 32–40.

Gaser, A.S. (1992): Salt tolerance of some grapevine rootstock. Thesis, Ph.D. Faculty of Agric. Cairo University.

Geeta, R.; Debpalm Quist and Craig A. Ledbetter (1995): *In vitro* screening procedure for osmotic tolerance in *Prunus*. Plant Cell Tissue and Organ Culture; 47:159-164.

Gunidy, F.L. (1990): Production of some fruit root stocks through tissue culture technique. Ph.D. Fac. Agric., Ain Shams. Univ., Cairo, Egypt.

Gupta, I.C. (1979): Use of saline water in agriculture oxford Ibh. Publ. Co. P. 2-28.

Gurel, S. and Y. Gulsen (1998a): The effect of IAA and BAP on *in vitro* shoot production of almond (*Amygdalus communis* L.). Turkish Journal of Botany, 22(6):375–379.

Gurel, S. and Y. Gulsen (1998b): The effects of different sucrose, agar and pH levels on *in vitro* shoot production of almond (*Amygdalus communis* L.). Turkish Journal of Botany, 22(6): 363–373.

Haggay, L.F. (1997): Response of Myroblan, Marianna 2624 and Marianna plum rootstocks to salinity of irrigation water. Egypt. J. Hort., 24(1):67-70.

Harada, H and Y. Murai (1996a): Clonal propagation of *poncirus trifoliate* through culture of shoot primordial. Journal of Hort.Sci., 71: 887–892.

Haradă, H. and Y. Murai (1996b): Micropropagation of *Prunus mume*. Plant Cell, Tissue and Organ Culture, 46(3): 265-267.

Hassan, A.A. (1998): Physiological studies on micro- propagation and growth of *Magnolia grandiflora* and *Morus nigra*, trees. M.Sc. Hort. Dept., Fac.Agric. Moshtohor, Zagazig University.

Hassan, A.A. (2004): Propagation improvement of some apple root stock and passion fruits by using tissue culture techniques. Ph. D. Hort. Fac. Agric. Moshtohor. Zagzaig. Univ.

Hassan, M.; L. Abd El-Khalik and A. Abou El-Azayem (2001): Salt tolerance of Apricot trees. Egypt J. Hort., 28(1): 91-99.

Hassan, M.M. and A.I. Abou El-Azayem (1990): Differences in salt tolerance of some fruit species. Egypt. J. Hort. Sci., 17 (1): 1-8.

Hassan, M.M.; S.A. Seif and M.E. Morsi (2000): Salt tolerance of olive trees. Egypt. J. Hort., 27(1): 105-116.

Hassan, S.M. (2001): Physiological studies on banana under salt stress conditions. M.Sc. Thesis, Faculty of Agric., Cairo University.

Hurtado, M.A.; M.L. Badenes; G.L. Lacer and I. Karayjiannis (1999): Random amplified polymorphic DNA markers as a tool for apricot cultivar identification. Acta Horticulture, 488: 281-287.

Imed Dami and Hassison G. Hughes (1997): Effect of PEG-induced water stress on *in vitro* hardening of "Valiant" grapevine Department of Hort., Colorado State University Fort Collins, CO. 80523, USA.

Ismail, M.K.A. (1996): Studies on tolerance of some grapevine cultivars to stress. Ph.D. Horticulture Dept., Faculty of Agric., Cairo University.

Jackson, M.l. (1958): Soil Chemical Analysis. Constable & Co. Ltd. London pp. 498.

Janeiro, L.V.; A. Vieitez and M. Ballester (1995): Cold storage of *in vitro* culture of wild cherry, chestnut and Oak. Ann. Des Sci. Fors., 52 (3):287-293.

Jun, J.H.; K.H. Chung; S.B. Jeong; K.H. Hong and S.J. Kang (2001): Rapid multiplication of Mg apple rootstocks *in vitro*. Korean Journal of Horticultural Science and Technology, 19(1):34-38.

Kahane, R. and M. Ranciliac (1996): Carbohydrates in onions cultured *in vitro*. Acta Bot. Garlic. 143 (213): 117–123.

Kaneko, Y.; I. Nagaho; S.W. Bang and Y. Matsuzawa (2000): Classification of flowering quince cultivars (genus *Cloenoneles*) using random amplified polymorphic DNA marker. Breeding Science, 50 (2): 139-142.

Karakas, B.; R.L. Bianco and M. Rieger (2000): Association of marginal leaf scorch with sodium accumulation in salt-stressed peach. HortScience, 35(1): 83-84.

Kaufmann, M.R. (1981): Development of water stress in plants. Hort. Science, 16 (1): 12-14.

Kaynas, N.; K. Kaynas and M. Burak (1997): Drought resistance of Granny smith and Amasya apple cultivars grafted on different rootstocks. Acta Horticulturae. No. 441, 225-229.

Kilden, A.N. (1997): Water stress factors and apple rootstock performance. Journal of Compact Fruit Trees, 27: 37-40.

Klerk, G.J. De; G.J. de Klerk; A.C. Cassells, ed; B.M. Doyl and R.F. Curry (2000): Rooting treatment and the *ex vitro* performance of micropagated plants. Acta Horticulturea, 53: 277-288

Kuhne, U.; S. Gennererich; B. Hnnig and V. Hanke (1988): Possibilities of improving *in vitro* rooting in pome and stone fruits. Gartenbau; 35(6): 180–182.

Lahav, E. and D.W. Turner (1989): Banana Nutrition, I.P.I. Bulletin No. 7, 56.

Lam, T.W.; R. Ernst; J. Arditti and S. Ichihasi (1991): The effect of complex additives and 2-iP (gamma, dimethylallyamino purine) on the proliferation of *Phalaenopsis protocorms*. Dept. of Development & Cell Biology, Univ of Calif., Inrvin., CA 92717, USA. Lindleyana 6 (1):24-26.

Lan, Y.P.; Z. Jun; C. Hui; X.F. Xu and Z.H. Han (2001): Effect of Jasmonic acid on the leaf stomata movement and drought resistance of young apple trees. Journal of Fruit Science, 18(3): 133-135.

Larsen, P.; A. Harbo; S. Klungsan and T.C. Asheim (1962): On the biogensis of some indole compounds in *Acetobacter xylinum*. Phy. Soil Plantarum, 15:552-565.

Ledbetter, C.; S. Peterson and D. Palmquist (1996): *In vitro* osmotic tolerance of six clonally propagated *Prunus accessions*. Journal of Genetics Breeding, 50(1): 1-6.

Lernes, M. (1928): Heredity, Evaluation and Society. 193-203 Sudan Sericultural Sci., 28: 9-14.

Lew, and T.V. Owskli (1991): Rooting and acclimatization of micropropagated *Vitis labrusca* "Delaware". HortScience, 26: 856–859.

Machnik, B. and A. Lisek (1995): Propagation *in vitro* of polish dwarf apple root stock in Materially agonopol skiej kanferencji –xxv-lecia wydziahi ogrodniczego Akadmir Rolnicezej wlub. Lunlin Poland wydzial orgrodniczy Akademia Rolnicza wlubinie 77-80. (Hort. Abst., 66:8259).

Maniatis, T.E.; F. Fritsch and J. Sambrook (1982): Molecular Cloning. A Laboratory Manual Cold Spring Harbor Laboratory Publisher, New York, USA.

Mansour, A.E.; F.F. Ahamed; A.H. Ragab and O.H. Darwish (1998): Effect of some organic and amino acids on alleviating the adverse effects of salinity on El-Hamawy apricot seedlings. Egypt J. Hort., 25(3): 359-369.

Mante, S.; R. Scorza and J.M. Cordts (1989): Plant regeneration from cotyledons of *Prunus persica*, *Prunus domestica* and *Prunus cerasus*. Plant cell, Tissue and Organ Culture, 19(1): 1-11.

Marino, G. (1983): The *in vitro* Propagation of the Japenes plum cultivar Santa Rosa; the effects of different mineral and hormonal components on multiplication and rooting. Rivista

della Ortoflora Frutticoltura Italiana, 67(5):349–361.(c.f. Hort. Abst., 144).

Masuda, T. and T. Yoshioka (1997): *In vitro* selection of a mutant resistant to *Alternaria* blotch disease in "In do "apple". Technical News Institute of Radiation Breeding, No. 56, 2pp.

Masuda, T.; H. Bessho; S. Komori and S. Tsuchiya (1994): Effect of thidiazuron and casamino acid on adventitious shoot formation from roots of apple (*Malus prunifolia Borkh*) plantlets cultured *in vitro*. J. of the Japanese Soc. For Hort. Sci., 63(1):39-43.

Mishra, M.K.; A.S. Ram; N.S. Prakah; D.P. Tyothi and M.S. Sreennivasan (1996): Polyploidy and chlorophyll content in coffea L. Amphidipliods between Cylamen persicum Millrestry. Indian J., 19:271-243.

Mohamed, N.E. (1997): Response of almond transplant to some stress treatment, M. Sc. Thesis, Fac. Agric., Ain-Shams Univ., Egypt.

Moncketon, D.G. and A.J. Jeffreys (1993): DNA prolifing Curr. Opin. Biotechnol., 4: 660-664.

Monte-Corvo, L.; L. Carbrita; C. Oliveira and J. Leidtao (2000): Assessment of genetic relationships among *Pyrus* species and cultivars using AF/P and RAPD markers. Genetic Resources and Group Evolution, 47 (3): 257-265.

Moriguchi, T.; I. Kozaki; S- Yamaki and T. Sanada (1990): Low temperature storage of pear shoots *in vitro*. Bull. Fru. Tree Res. Sta., 17: 11-18.

Morini, S., P. Fortuna; R. Sciutti and R. Muleo (1990): Effect of different light-dark cycles on growth of fruit tree shoots cultured *in vitro*. Advances in Hort. Sci., 4(3):163-166.

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

Murphy, J. and J.P. Riley (1962): A modified single solution method for the determination of phosphate in natural waters. Annal. Chem. Acta, 27: 31-36.

Nandanwar, R.S. and A.N. Patil (2000): Meiotic chromosomal aberrations, spectrum and frequency of chlorophyll and macromutations induced by Gamma rays, EMS and hydroxylamine in *Vigna radiata* L. Wilczek. India Bhabha Atomic Res. Centre, 378:156-165.

Nitsch, J.P. and G. Nitsch (1969): Haploid plants from pollen grains. Science, 163: 85-87.

Novy, R.G. and N. Vorsa (1996): Identification of genotypic heterogeneity in "McFarlin" Cranberry : a randomly amplified polymorphic DNA (RAPD) and phenotypic analysis. J. Amer. Soc. Hoti. Sci., 121 (2): 210-215.

Nunes, J.C.O.; A. Barpp; F.C. Silva; E.L. Pedrotti (1999): Micropropagation of rootstock "Marubakaido" (*Malus prunifolia*) through meristem culture. Revista Brasileira Frucicultura, 21 (2): 191-195.

Oka, S. and T. Niino (1997): Long term storage of pear shoot cultures *in vitro* by minimal growth method. J. Japan Agric. Res. Quality, 31(1): 1-7.

Omura, M. and T. Hidaka (1992): Shoot tip culture of citrus; 2-longevity of cultured shoots. Bull. Fruit tree Res. Sta. (Japan) 22 :37-48.

Otahola, V. (2000): Plant regeneration of Passion Fruit, through leaf disc *in vitro* culture. J. Bioagro, 12(3):71–74.

Otoni, W.C. and S.L. Teixeria (1991): *In vitro* clonal propagation of *Citrus sinensis* L. obs cv. Pera using young nodal segments. I-Influence of cytokinins. Revista Ceres, 215 (38): 17–24.

Pancaldi, M.; B. Vinatazer and S. Sansavini (2000): Use of molecular analysis to resolve synonymies in plum. Rivista di Frutticoltire edi Ortofolicottura, 62 (7-8): 67-22.

Paoli, G. de and G. De Paoli (1988): Micropropagation of peach. XVIII Convegno Peschicolo, Cesena, 3 May 1988, 225- 230.

Param-Preet, K.; J.K. Bhalla and P. Kaur (1998): Regeneration of haploid plants from microspore culture of pigeon pea (*Cajanus Cajan* L.). Indian Journal of Experimental Biology, 36 (7): 736-738

Paranichianakis, N.; A. Angelakis and K. Chartzoulakis (1999): Growth and mineral up take of *Sultanina gravines* irrigated with reclaimed water and the potential for using such water in Crete, Greece. In Third International Symposium on Irrigation of Horticultural, Acta Hort., 2000, (9537): 725:730.

Pereira; J.E.S., M. Dantas; A. Rossi; L.G. Fortes and C.L. Vahl (1998): Effect of different concentrations of alumination on *in vitro* multiplication and rooting of the apple cultivar "Marubakaido "UFPEI, Posta 1403 Pelotas (RS), Brazil.

Perez-Tornero, O.; F. Ortin-Parraga; J. Egea and L. Burgos (1999): Medium term storage of apricot shoot tips *in vitro* by minimal growth method. HortScience, 34(7): 1277-1278.

Pierik, R.L.M. (1987): *In vitro* culture of higher plants. Dept. of Hort. Agric., Univ. Wageningen. The Netherlands, Martinus Nighoffpub. Dordrecht, Boston, Lancaster, pp. 66-79.

Pietropaolo, P.A. and B.I. Reisch (1984): Micropropagation of "Stanley" plum. HortScience, 19(4):535–536.

Pinker, I.; H.H. Jesch and G. Democh (1993): Cold storage of Crying a shoot cultures *in vitro*. Gartenbau Wissenschaft, 1:11-14.

Potino, B.O. (1981): Methods in plant tissue culture. Dept. of Hort. Agric. College, Maryland Univ. College park, Maryland USA. pp. 8-29.

Predieri, S. and E. Gatti (2000): Effect of gamma radiation on microcuttings of plum (*Prunus salicina* Lindl.) "Shiro". Advances in Horticultural Science, 14(1): 7-11.

Predieri, S. and F.F.F. Malavasi (1989): High frequency shoot regeneration from leaves of the apple root stock M 26 (*Malus pumila* Mill). Plant Cell-Tissue and Organ Culture, 17(2): 133–142.

Predieri, S.; M. Govoni; J.B. Retomales; C.L. Moggia and M.P. Banados (1998): *In vitro* propagation of compact pear clones. Proceedings of the VIIth international Symposium on Pear Growing. Acta Horticulturae, 1998 , No. 475, 127-132.

Predieri, S.; M. Magli and R.H. Zimmerman (1997): Pear mutagenesis : *In vitro* treatment with gamma rays and field selection for vegetative from traits. Euphytica, 93(2): 227-237.

Predieri, S.; P. Rosati and B. Fornasini (1986): Mutagenesis in pear during micropropagation establishing a method. Rivista della Oortofloro Frutticoltura Italiana, 70(5): 369-379.

Pregl, F. (1945): Quantitative Organic Micro Analysis. 4th Ed. J. & A Churchill, Ltd., London.

Quan, Y.; Z. Chen; T. Guo; J. Zhang and S. Chen (1996): Citrus germplasm preservation *in vitro*. South China Fruits, 25(4): 3-5.

Reeves, D.W.; G.A. Couvillon and B.D. Horton (1985): Effect of gibberellic acid (GA_3) on elongation and rooting of Stjuliena rootstock *in vitro*. Plant physiol. Biochemistry, 26: 252–259.

Rodrigues, A.C.; J.C. Fachinello; E. Strelow and L. Fortes G.R. (1999): *In vitro* establishment of *Prunus* sp. Rootstocks. Revista Brasilerira defruiticultura, 21(2):229-231.

Rossi, V.G.; G. de Paol; P. dal Pozzo; G. De Paoli and P. Dal Pozzo (1992): Propagation of *Pyrus calleryana* Sel. D6 by *In vitro* culture. International Horticultural Congress Florence, Italy, 30 August 1990.

Saad El-Deen, I.A.; M.E. El-Said and A.S. Sari El-Deen (1992): Effect of salinity levels on growth of two olive seedlings cvs. Zagazig J. Agric. Res., 19: 2541-2553.

Samartin, A. (1989): A comparative study of effects of nutrient media of cultural conditions on shoot multiplication of in vitro cultures of Camellia japonia explant. J. Horti. Sci., 64: 73-79.

Santa-Catarina, C.; C. de S., Maciel; F. Denardi; E.L. Pedrotti and S. da C. Maciel (2001): Micropropagation of "Selecao 69" apple root stock tolerant of Tollar rot (*Phytophthora cactormum*). Mestrunda Ciencia Rural., 31 (5): 757-762.

Santos, J.F.R.-dos; H.R. Cheyi; J.H.R. Santos (1994): Effect of water salinity on composition of banana leaf and soil characteristics. Pesquisa. Agropecuaria-Barasileira, 29: 247-253.

Saric, M.R.K.; R. Curie; T.C. Cupina and I. Geric (1967): Univerzitef novon sodu. Ptaktikum Iz Frziologize-Biljaka Beograd, Haucua Anjig pp. 215.

Sasmita, M.; P.C. Deka; S. Bhattacharya and S. Mohanty (1998): Micropropagation of *Citrus sinensis* cultivar Musambi. Indian J. of Agric. Sciences, 68(2): 114 –116.

Schreiner, M. and P. Ludders (1992): Effect of Na salts on the reproductive growth of Golden Delicious apple trees under different levels of K nutrition. J. Eewerbsobau, 34(8): 212–216.

Schum, A.; A. Willers and H. Schmidt (1999): *In vitro* mutagenesis in Malus x domestica induction of mildew resistance. Erwerbsobstbau, 41(3-4): 131-137.

Sedlak, J.; F. Paprstein; A. Bilavcik and J. Zamecink (2001): *In vitro* cultures of apple and pear and their cold hardening. J. Plant Physiol., No. 4, 323-326.

Selim H.H.; A.M. Fayek and A.M. Sweidon (1978): Reproduction of Bircher apple cultivar by lyering. Ann. Agric. Sci. Moshtohor, 9:157-166.

Shahin, B.A. (1989): Growth of some plum rootstocks as affected by saline water irrigation. Ph.D. Thesis, Fac. Agric., Cairo University.

Shahin, B.A.; S.A. El-Shall and A.L. Abou El-Azayem (1994): Influence of saline water on chemical composition of apricot and peach seedlings. J. Agric. Sci., Mansoura. Univ., 19(10): 3291-3297.

Sharifani, M.M.; J.F. Kackson; M. Geibel; M. Ficher and C. Ficer (2000): Characterization of pear species and cultivars using RAPD primers. Acta-Hort., 538 (2): 499-504.

Sharma, D.R.; P.S. Chauhar; R. Kaur and D.K. Srivastava (1992): micropropagation of colt. A semi-dwarf rootstock of cherry. Indian J. of Hort., 49(3) 209-212.

Shehata, M.M.; S. El-Hamshary and W. Khalil (1996): Young grapevine response to depth and salinity of water table. Alex. J. of Agric. Res., 41 (2): 331-336.

Shibli, R.A.; M.M. Ajlouni; A. Joradat; S. Aljanab and M. Shatnauri (1997): Micropropagation in wild pear (*Pyrus Syrica*). Scientia Horticulturae, 68 (114): 237 –242 .

Silveira, C.A.P.; I. Citadin and L. Fortes (2001): Multiplication *in vitro* of root stock *Malus* sp. under different concentrations of auxins. Departmento de fitotecnia, compus Universitario, Caixa, Brazil.

Siqueira, E.R.de.; M.T.De Jnoue, and E.R. Siqueria (1991): Controlling oxidation in the tissue culture of coconut. Resquis. Agropecaria, Brasileria, 26 (7): 949–953.

Sircelj, H.; F. Batic; F. Stampar; E.D. Vilhar; D. Grill and H. Guttenberger (1999): Effect of drought stress on pigment, ascorbic acid and free amino acids content in leaves of two apple tree cultivars. J. Phyton. Hort., 39(3): 97-100.

Sodkiewicz, T. (1997): Modification of the degree of somatic damage caused by N-methyl–N-nitro-Sourea (MNU) treatment soyabeans. PlantBreeding Abst. 68: 9381.

Son, S.H.; Y.W. Chun and R.B. Hall (1991): Cold storage of *in vitro* culture of hybrid popular shoots (*Populus alba* X *P. grandidentate* Mich.). Plant Cell, Tissue and Organ Culture, 27(2): 161-168.

Sourial, G.F.; M.A. Meligi; A.A. Tawfik and A.M. El-Demerdash (1982): Effect of saline irrigation on chemical constituents of one year old rooted vines, sugars and NPK content. Acta Horticulture, No.158.

Sourour, M.M. and M.N. Haggag (1992): Effect of salinity treatments on growth, leaf and root mineral composition in Nemaguard, Okinawa and Meet-Ghammr Peach rootstocks. Alex. J. Agric. Res., 37 (3): 157-170.

Spiegel, S.; Y. Tam; A. Rosner; M. Brison; B. Helliot; A. Pierronnet; J.P. Eyquard; M.T. Boucaud; A. Altman; M.Ziv-ed; S. Zhar (1999): *In vitro* elimination of *Prunus necrotic* ringspot virus in a plum cultivar. Current Plant Science and Biotechnology in Agriculture Vol. 36.

Sriskandarajah, S.; R.M. Skirvin; H. Abu-Qaoud and S.S. Korban (1990): Factors involved in shoot elongation and growth of adventitious roots and axillary shoots of three apple scion cultivars in *vitro*. J. Hort. Sci., 65 (2): 113-121.

Suksa, A.P.; I. Kataoka; X. Fujime and S. Subhadra-Bandhu (1997): Effect of temperature, growth retardants and osmotic potential on growth of papaya shoots conserved *in vitro*. Japanese Journal of Tropical Agriculture, 41 (1): 7-13.

Sweidan, A.M.; A.T. Salem and M.A. Fathi (1992): Growth and mineral content of apricot seedling as influenced by various levels of sodium chloride. Res., Bull. No. 544 Zagazig University, Faculty of Agriculture.

Tejavathi, D.H.; G. Lakshmi Sita and A.T. Sunita (2000): Somatic embryogenesis in flax. Cell Tissue and Organ Culture 63:155-159.

Telgen, H.J. Van; A. Mil Van; B. Kunneman; H.J. Van Telgen and Van A. Mill (1992): Effect of propagation and conditions on acclimatization of micropropagated plants. Acta Botanica Neelandica, 41(4): 453-459.

Tewary, P.K; Ardhana-Sharma; M.K. Reghunath and A. Sarkar (2000): *In vitro* response of promising mulberry (*Mours* sp.) genotypes for tolerance to salt and osmotic stresses. Plant Growth Regulation, 30(1): 17-21.

Tosca, A.; R. Pandolfi; S. Citterio, A. Fasoli and S. Sgorbati (1995): Determination by flow cytometry of the chromo some doubling

capacity of colchicine and oryzalin ingynogenetic haploids of gerbera. Plant Cell Reports, 14 : 455–458.

Tulmann, A.; M. Cristofani; B.J. Mendes and A. Ando (1994): Use of *in vitro* mutagenesis in citrus breeding. I. Sensitivity to gamma rays of explants of the cultivar Pera. Bragantia, 53 (2): 167-176.

Turk, A.B.; J. Snole and A. Siftar (1992): Micropropagation of plum ectotype (*Prunus domestica* L.) as rootstock for apricot. Acta Hort., 300: 111-114.

Vainola, A. (2000): Polypolarization and early screening of Rhododendron hybrid. S. Euphytica, 112: 239-244.

Viana, A.P.; C.H. Bruckner; H.E.P. Martinez, C.A. Huaman and R.R. Mosquim (2001): Physiological characteristics of grapevine rootstocks in saline solution. Scientia Agricola, 58 (1): 139-143.

Viunterhalter, D.; Grubisic and B. Konjevic (1990): Light controlled root elongation *in vitro* cultures of *Dracaena frahrans* Kergawl. Plant Cell, Tissue and Organ Culture, 22: 1-6.

Volschenk, T. and J. Devilliers (2000): Optimization of the use of saline water for apricot trees. In Vth International Micro-irrigation Congress (micro 2000) Cape Town. South Africa, 22-27 October 2000.

Walker, R.R.; D. Blackmore,; P.R. Clingeleffer and F. Icano (1997): Effect of salinity and Rasmey rootstock in ion combination concentrations and carbon dioxide assimilation in leaves of drip-irrigated. Field grown grapevines (*Vitis vinifere* L. cv. Sultana). Australia J. of Grape and Wine Research, 3 (2): 66-74.

Wanas, W.H.; A.M. El-Hammady; H.T. El-Saidi and M.F.M. Shahin (1999): *In vitro* propagation and evaluation for salt

stress tolerance in some grape cultivars. Arab Univ. J. Agric. Sci., Ain- Shams Univ., Cairo, 7 (1) 179-190.

Wang, H.Y.; J.S. Sun; B.U. Ma; J.X. Lin and D.Y. Lin, (2000): Study on the Salt tolerance of apple root stock *in vitro* Subculture plantlet. Journal of Fruit Science. 17(3):164-169.

Wang, Q.C.; H.R. Tang; Q. Quan and G.R. Zhow (1994): Phenol induced browning and establishment of shoot-tip explant of "Fuji" apple and "Jinhua" Pear cultured *in vitro*. HortScince, 69(5): 833-839.

Welander, M. (1991): Micropropagation of apple rootstock M-26, Lanta ruksuniver Sitet. HortSci. 58: 22.

Welsh, J. and M.C. McClelland (1990): Genomic finger printing using arbitrary primed PCR and a matrix of pair wise combinations of primers. Nucleic Acids Res., 19:5275-5279.

William, H.; P. Chichlilo and H. Renolds (1965): Official Methods of Analysis of the Association of Official Agriculture Chemists. 10th ed.(Ass. of Agric. Chem.).

Williams, J.C.; A.R. Kubelik; J.A. Rafalaki and S.V. Tingey (1990): DNA polymorphism amplified by arbitrary primers are useful as genetic markers. Nucleic Acids Res., 18:6231-6235.

Wu, Y.J.; L.Z. Shang; L.Z. Lan and D.J. Wu (2003): Shoots regeneration from immature cotyledons of peach (*Prunus persica* L. Batsch). Journal of Zhejiang University. Agric. and Life Sciences, 29(1): 93–96.

Yancheva, S.D.; P. Druart; B. Watillon; V. Djouvinov; D. Dotcher (ed) and P. Gerchera (2002): *Agrobacterium* mediated transformation of plum (*Prunus domestica* L.). Acta Horticulturae, 577; 215-217.

Yonemitsu, H.; K. Nishi, S. Sagan; L. Iong and Y. Matsum (2003): *In vitro* propagation of mature Japanese apricot (*Prunus mume* Sieb.). Horticultural Research Japan, 212, 77-82 .

Yoshioka, T.; Y. Ito and T. Masuda (2000): Induction of mutant resistant to *Alternaria* blotch of apple by gamma-ray irradiation. Stress tolerance and mutation in plants. Proceedings of 39th Gamma field, Naka–Gun, Ibaraki-Ken Japan, 12-13 July 2000 No. 39, 69 –79.

Youssef. E.M.A.; T. El-Alfy and A.K Hassan (1998): Effect of various Gamma-irradiations and colchicine treatments on growth behaviour and pigments and volatile oil products of *Melaleuca armillaris* Smith explants *in vitro*. Egyptian J. of Hort., 25: 377–395.

Zaied, N.S. (1997): Studies on the vegetative propagation of stone fruit tress. Ph.D. Hort. Dept. Fac. of Agric. Moshtohor, Zagazig University.

Zekri, M. (1987): Effect of sodium chloride and polyethylene glycol on the water relations, growth and morphology of citrus rootstock seedlings. Ph.D. thesis, Faculty of Agric., Florida Univ.

Zhang, L.Y.; H. Zhao; X. Zhang and Lijia (2002): Effect of iron-salt doubling stress pigment and iron content in stock leaves of apple. Plant Physiology Communications, 38(1): 19-23.

Zotto, A. dal; D.M. Docampo and A. Dal-Zotto (1997): Micro-propagation of root stocks of plum cv. Marianna 2624 and Pixy of certified Sanitary status. Phyton Buenos Aires, 60(1-2):127-135.