

VI. LITERATURE CITED

- Abd Al-Hamed, M.F., A.A. Swedan, H. Edriss and Yusre, A. (1993): Propagation of clymax plum by cutting using different substances for stimulatig rooting. Egypt J. Hort. 20 (1):57-69.
- Abd-El-Shakour, M., (1994). Physiological studies on the propagation of guava. M.Sc. Thesis Fac. of Agric., Moshtohor, Zagazig Univ., Egypt.
- Abou-Amara, N.M. (1976): Physiological studies on the rooting ability of guava cuttings. M.Sc. Thesis, Fac. of Agric. Ain Shams Univ. Egypt.
- Abou Rawash, M.A.B. (1973): Further studies on rooting of some deciduous fruit trees. Ph. D. Thesis Fac. Agric. Ain Shams Univ., Cairo, Egypt.
- Abou Rawash, M.; A.M. El-Hamady; H.F.El-Wakeel; L.H. Osman and Abdel Hamid, A.A (1993): Trials on the vegetative propagation of guava trees by leafy softwood cuttings. Minia First Conf. for Hort. Crops (19-21 Oct. 1993) pp. 409-430.
- Anon., (1961): Rooting in Guava. Indian Hort. 5(4): II.
- Ashiru, G.A., (1968): Physiological studies of rooting of MM.106 and EM.11 apple. Diss. Abst. Seck. B. 28: 3550 : (Hort. Abst. 39 : 186).
- Ashiru, G.A. and Carlson, R.F. (1968): Some endogenous rooting factors associated with rooting of East Malling II and Malling Merton 106 apple clones. Proc. Amer. Soc. Hort. Sci. 92:106-12.
- Ashmawy, M.F. (1973): Studies on pecan propagation by cuttings M.Sc. Thesis, Fac. of Agric., Al-Azhar Univ., Egypt.
- Avanzato, D. and Cappellini, P. (1988): Anatomical investigation on walnut shoot after IBA application. Acta. Aorticulture 227: 155-159.
- Azzous, S., (1967): Propagation of mango by air-layering. The Egyption Society of Horticulture in fifty years (1915 - 1965). The Golden Anniversary (March 19-22, 1965) No. 139 July : 119 - 131.
- Bartolini, G.; Bellini, L.; and Messeri, C. (1979): The effect of sampling time on the rooting of peach cuttings from cultivars with differing cold requirements. Rivista della ortofloro frutticoltura Itali,ana 63, 343-355 (Hort. Abstr., 50:5028).
- , and Lanni, G. (1992): Kiwi propagation tests with herbaceous and hardwood cuttings. Acta Horticulturae 282, 239-241 ISBN 90-6605-324-0 [En, 4 ref. International Symposium on Kiwi fruit, Padua, Italy, 14-17 Oct., 1987] Instituto Propagazione Specie Legnose, 50018 Scandicci, Florence, Italy. (Hort. Abst. 62:9843).

- Bhandary, K.P. and Mukherjee, S.K. (1969): Relation between invigoration and rooting of guava stem cuttings. *Curr. Sci.* 38:197-198. (Hort. Abst. 39-2440).
- Bhujabal, B.G. (1973): Effective concentration of IBA in the layering of guava. *Research Journal of Mahatma Phule Agric. Univ.* 3 (1) 53-56 (En, 11 ref.) College of Agric. Poona, India (Hort. Abst. 43:8160).
- Blommaert, K.L.J. (1954): Growth and inhibiting substances in relation to the rest period of the potato tuber. *Nature*, 774:970-2.
- (1958): Stem cutting can be obtained more easily with new method. *Fmg. S. Afr.*, 34 (9):10-11. (Hort. Abstr., 29:1979)
- Challenger, S. (1960). *Horticulture in canterbury Plant propagation studies N. 2-Gdnr.* 17:25-6 (Hort. Abst., 31:3008).
- Chandler, W.H. (1958): *Deciduous orchards.* Lea and Febiger. publ. Co. Phil. Penn. pp. 535.
- Chauhan, K.S. and Maheshwani, L.D. (1970): Effect of certain plant growth regulators, seasons and types of cuttings on root initiation and vegetative growth in stem cuttings of peach variety sharbati. *Rajasthan college of Agric., Udaipur. Ind. of Hort.*, 27(3/4). 136-40.
- and Pundir J.S. (1972): Effect of growth regulators and mist on rooting stem cuttings of peach (*Prunus persica* Batsh). *Rajasthan College of Agriculture Udaipur. Ind. J. of Agric. Sci.* 42 (9): 769-71.
- Chong, C., (1982): Influence of high IBA concentration on rooting. *Inter. Plant. Prop. Soc.* 1982; 31: 453-463. (C.F. plant growth regulator, Alytr., 9:1960).
- Cimpl. C. and Gellini, R. (1958): Anatomical study of the relationship between structure and rooting capacity in dive cuttings. *Nuovo Co. Got. Itatal.*, 50: 417-424.
- Couvillon, G.A. and Erez, A. (1980): Rooting, survival and development of several peach cultivars propagated from semihardwood cuttings. *Hort. Sci.* 15(1):41-3.
- Cummins, J.N. (1967): Some physiological and anatomical aspects of rhizogenesis in stem tissues of the apple. *Diss. Abst. Sect. B.* 27, 3415. (Hort. Abst. 38:246).
- Deidde, P. (1970): Observation of the origin of adventitious root in almond cuttings. *Studi. Sassar. Sez.* 11:495-500 (Hort. Abst. 40:2850).

- Dhua, R.S.; S.K. Mitra; S.K. Sen. and Bose T.K. (1984): Effect of ethephon and IBA on rooting of guava. Science and culture 48(12) 444-445, [En, 6 ref, 1 pl.] Bidhan Chandra Krishi Viswavidyalaya, Kalyani, Nadia, India. (Hort. Abst. 54:378).
- Doud, S.L., Carlson, R.F. (1972): Propagation methods of fruit tree cultivars from Hardwood cuttings. Fruit varieties and Horticultural digest, 26:80-83 (Hort. Abstr., 43:4178).
- Edriss, A. and Burger, D.W. (1993): Influence of rooting promoting substances on root initiation from hardwood cutting of "Nemagurd" peach rootstock. Egypt. J. Hort. 20(1):35-41. A.
- Edriss, M.H.; M.F. Abd Alhamed; A.A. Swedan and Yusre, A. (1993): Effect of IBA and some growth regulators on rooting ability of Golden Japanese plum cuttings. Egypt J. Hort. 20(1):71-85.
- Eid, M.M. (1980): Some studies on guava propagation. M.Sc. Thesis, Fac. of Agric. Ain Shams Univ. Cairo, Egypt.
- El-Agamy, S.Z.; R.H. Biggs and Campbell C.W. (1983): Rooting of soft-and semihard-wood guava cuttings grown under mist and treated hare's powder. J. Agric. Res. Tanta Univ. 9 (3).
- El-Fakharani, E.M. (1986): Anatomical and physiological studies on vegetative propagation of some deciduous fruit trees. Ph.D. Thesis, Zagazig Univ., Moshtohor, Egypt.
- El-Said, M.EL., (1981): Studies on propagation of some olive varieties, M.Sc. Thesis, Fac. of Agric. El-Azhar. Univ. Egypt.
- El-Tomi, A.L.; I. Shawky, and Abou-Rawash, A. (1974): Preliminary studies on the propagation of Balady apple by stem cuttings. Annals of Agric. Sci., Fac. of Agric. Ain Shams Univ. Cairo XIX:197-203.
- Erez, A. and Yabowitz, Z. (1981): Rooting of peach hardwood cuttings for meadow orchard. Agricultural Research Organization, Volcani Center, Bet Dagan, Israel. Scientia Horticulturae, 15(2):137-44.
- Eseau, K. (1961): Anatomy of seed plants. John Wiley and Sons., Inc. 376 pages.
- Fahin, A. (1969): Plant Anatomy 2nd ed. Pergman Pres. London.
- Fayek, M.A. (1972): Physiological and biochemical studies on the internal factors affecting rooting of the cuttings in some deciduous fruit trees. Ph.D. Thesis, Cairo Univ. Fac. Agric.
- and Sweidan, A.M., (1981 a): Propagation of Meet Ghamr peach by hardwood cuttings. Res. Bull. No. --337, Zagazig Univ.
- and Sweidan, A.M., (1981 b): Some aspects on propagation of six plum cultivars by hardwood cuttings. Res. Bull. No. 572, Zagazig Univ.
- Fiorino, P. and Mattii, G.B. (1992): The role of prunasin in collapse of rooting peach cuttings. Advances in Horticulture science 6(1):11-14.

- Fontanazza, G., (1973): Preliminary observations on the rooting of Hasel by air-layering. *Rivista della ortoflorofruitticoltura italiana* 57(1): 38-47 (Hort. Abst. 44 : 142).
- Fouad, M.M. (1965): Studies on vegetative propagation by cuttings for hard-to-root deciduous fruits the "Le Conte" pear. Ph.D. Thesis Fac. Agric. Cairo Univ.
- Gamal, M.H. and Kotb, M.A. (1988): Rooting of apricot by hard and softwood cuttings. International Conference of Horticulture, 27-30 March, 1988 Aman, Jordan.
- Gemma, H.; K. Kojima; S. Suzue, and Sobajima, Y. (1982): Fundamental studies on peach propagation by stem cuttings v. Influence of a natural rooting factor, preparation of the base of cutting and medium used on rooting. Scientific reports of the Kyoto Prefectural Univ. Agri. 34:11-20. Kyoto Prefectural Univ., Kyoto, Japan. (Hort. Abst. 53(6):3946).
- Gorecki, R.S. (1979 a): The effect of an auxin (IBA), Fungicide (Captan) and the wounding on the rooting of softwood apple (*Malus Mill*) cuttings. *Acta agrobotanica* 32:223-32. (Hort. Abst., 49:5983).
- (1979 b): Physiological changes in M. 26 and M. 106 softwood apple (*Malus sp. Mill*) cutting during their rooting. *Acta Agrotanica*, 33:109-119 (Hort. Abstr., 51:5259).
- Gueriero, R. and Loreti, F. (1968): Studies on the Propagation by cuttings of clonal apple rootstocks with bottom heat. *Riv. ortoflorofruittic. Ital*, 52:757-78 (Hort. Abstr. 39:4174).
- and ———— (1976): Relationships between bud dormancy and rooting ability in peach hardwood cuttings. *Acta horticulturae* No. 54, 51-58 (Hort. Abst., 46:9067).
- Gur, A.; Zerem, A. and Lederman, E. (1982): Propagation of apple rootstock. *Die Vermehrung von Apfeluntarlagen Erwerlropskan* 24: 29-30. (C.F. Hort. Abst., 52; 4503).
- Hanger, F.B.W., (1955): Propagation of hardwood plants by air-layering. From summary pap. 14 the Int. Hort. Congr. (Hort. Abst. 25 : 944).
- Hanger, F.B.W. and Ravenscroft, A. (1954): Air-layering experiment at Wisley. *J. Roy. Hort. Soc.*, 79: 111-116, illus (Hort. Abst. 24: 1794).
- Hanson, C.K. (1978): The effect of indole butyric acid on rooting of Lovell and Nemaguard peach cuttings. *Hort. Sci.* 13(3):374.
- Harrison - Murray, R.S.; Howard, B.H. and Mackenzie, K.A.D. (1981): Environmental influence on seasonal variation in rooting. *Rep. E. Malling Res. Stn.*, pp. 60.
- Hartmann, H.T. (1969): Some physiological factors involved in propagation by hardwood cuttings. *Proc. Inter. Pl. Prop. Soc.* 19:106-114.
- Hartmann, H.T. and Griggs, W.H., and Hansen C.J. (1960): Old Home pear rootstock propagated by hardwood cuttings. *Calif. Agric.*, 14:9-10.
- (1963): Propagation of own-rooted old Home and Bartlett pear decline. *Proc. Amer. Soc. Hort. Sci.*, (82) 92-102
- and Hansen, C.J. (1958): Effect of season of collecting, indole butyric acid and pre planting storage treatment on rooting of Marianna plum, peach and quince hardwood cuttings. *Proc. Amer. Soc. Hort. Sci.* 71:57-66.

- Hartmann and Kester, D.E. (1968):** Plant propagation principles and practices. Eglewood cliffs, N.J. Prentice-Hall, INC.
- , ——— and **Kester, D.E. (1972):** Plant propagation, principles and practices, pp. 123, 127, 304, 305, 596. Prentice-Hall, INC.
- (1978): Plant propagation. Principles and practices (third edition). Prentice Hall of India, New Delhi, PP. 211-70.
- (1983): Plant propagation, principles and practices. 4th ed. Prentice Hall, IWC. England, New Jersey, 07632.
- and **Loret E. (1965):** Seasonal variation in the rooting of olive cuttings. Proc. Amer. Soc. Hort. Sci. 87:194-8.
- Hassan, M.M.; A.A. Moustafa; M.A. Salama and Ibrahim Z.A. (1993):** Influence of IBA application on rooting ability of apricot stem cuttings. I. Responses of rooting criteria and endogenous regulators. Egyptian Journal of Horticulture 18 (1) 95-103 [En, ar, 28 ref., fig.] Fac. of Agric. Cairo Univ., Fayoum, Egypt. (Hort. Abst. 64:2581).
- Hess, C.E. (1964):** Naturally occurring substances which stimulate root initiation. In J. P. Nitsch (Ed.). Regulateurs de la Croissance Vegetale (C.N.R.S. Paris) PP. 517 - 27.
- Holwah, A.Y.H.A. (1989):** Studies on propagation of plum stem cuttings. M.Sc. Thesis Al-Azhar Univ., Egypt.
- Hosny, F.A. (1974):** Effect of some growth regulators on globe artichoke, M.Sc. Thesis Fac. of Agric., Al-Azhar Univ., Egypt.
- Howard, B.H. (1965 a):** Increase during winter in capacity for root regeneration in detached shoots of fruit tree rootstocks. Nature. 208:912-913.
- Howard, B.H. (1966):** Effects of bud removal and wounding on rooting in hardwood cuttings, Nature 220:262-264.
- Howard, B.H. (1968):** The influence of 4 (indolyl-3) butyric acid and basal temperature on the rooting of apple rootstock hardwood cuttings. J. Hort. Sci. 48: 23-31.
- Howard, B.H. (1973):** Apple hardwood cuttings establishment. Rep. E. Malling Res-Stn., p. 41.
- Howard, B.H. (1973):** Factors affecting the rooting response of plant to growth regulator application. Acta Hort. 34: 93-106.
- Howard, B.H. (1974):** Nursery experiment report; the response of cuttings to basal wounding in relation to time of auxin treatment. Rep. E. Malling Res-Stn., p. 210.
- Howard, B.H. (1978):** Field establishment of apple rootstock hardwood cuttings as influenced by condition during a prior stage in heated bins. J. Hort. Sci. 53: 31-37.
- and **Blasca A.B. (1979):** Variation of rooting ability within apple hardwood cutting hedges. Rep. E. Malling Res-Stn., P. 74.

- and Harrison-Murray (1982 a): Wounding winter cuttings. Substitution for the shoot base. Rep. E. Malling Res.-tn., P. 60.
- Howard and Harrison-Murray (1982 b): Cause of seasonal rooting of M.26 winter cuttings. Rep. E. Malling Res.- Stn., P. 61.
- , R.S., Harrison-Murray, and K.A.D. Mackenzie, (1979): Cutting response to wounding. Rep. E. Malling Res-stn for 1979 (1980) pp. 74-75.
- , ----- and Fenlon, C.A. (1983): Effective auxin treatment of leafless winter cutting. E. Malling Res. Stat. Maidstone. ME. 19, 5, Bjuk Pubi Wantage UK. 1983. 73 - 85.
- , R.S., Harrison-Murray, and K.A.D. Mackenzie, (1984): Factors affecting seasonal changes in rooting of winter cutting. Rep. E. Malling Res.-Stn., pp. 82-83.
- , R.S., Harrison-Murray, and K.A.D. Mackenzie, (1986): Seasonal rooting trend in M26 and MM111 leafless cuttings. Rep. E. Malling Res.-Stn., p. 42.
- Howard, B.H. and Nahlawi, N. (1969): A progress report on the propagation of some new plum rootstock from Hardwood cuttings. A.R.E. Malling. Res. Stat. A 52:71-3. (Hort. Abstr., 39:4185).
- and Pontikis C.A. (1977): Hardwood cuttings treatment for the propagation of colt, Quinees and M27. Rep. E. Malling Res.-Stn., P. 35.
- and ----- (1981): Wounding response in cuttings. Rep. E. Malling Res.-Stn., P. 62.
- Hu, X.B.; H.N., Deng and Shao, C. (1993): Study on propagation of fruit crops by cuttings with full illumination and intermittent misting. J. Fruit Sci. 10(2):92-94. (Hort. Abst. 64(10):1559.
- Hwang, K.S. (1988): Studies on factors affecting the rooting of peach cuttings. Journal of the Korean Society for Horticultural Science 28(2) 137-152 [Ko, en, 30 ref., 2 Pl] Shin-Gu Junior College, Korea Republic. (Hort. Abst. 58:5490).
- Ibrahim, I.M.; A.T. El-Wakeel, S.E. Bahlool, and Ashmawy, M. (1976): Propagation of *Pyrus communis* rootstock by hardwood cuttings. Agric. Res. Rev. 54:29-34.
- Issel, L.G. and Chalmers, D.J. (1979): The growth of cling stone peach trees (*Prunus persica* L. Batsch) propagated from hardwood cuttings in relation to time of propagation and planting. J. Hort. Sci. 54:33-8.
- Iwasaki, K. and Weaver J. (1977): Effect of chilling, calcium cyanamide and bud scale removal on bud break, rooting and inhibitor content of buds of "Zinfandel" grape (*Vitis vinifera* L.). J. Amer. Soc. Hort. Sci.
- Jauhari, O.S., and Nigam, V.N. (1959): "A note on air layering in *Morus alba*" J. Res. Sci. Agra. Univ., 8(1): 39-42, illus., from Siol. Abstr., Sect. 0-1960, 35. Abstr. 11, 941.

- Jawanda, J.S.; J.S. Josan and Singh, S.N. (1979): Propagation of *Prunus* species by cuttings. Effect of IBA and the type of peach cuttings on rooting. Punjab Agric. Univ., Ludhiana. Ind. J. Res., Ind. 16(4). 408-12.
- Johansen, D.A. (1940): "Plant Microtechnique", 5th ed. Mc. Graw-Hill Book Company, Inc. New York, pp. 523.
- Jovanovic, M. and Gigic, M. (1977): Effect of IBA on the rooting of M.9 and MM.106 apple cuttings. Jugoslovensko Vocarstvo (1977), 10: (39140): 443-448. (C.F. Hort. Abstr., 49; 2354).
- Kahlon, P.S., and Sukhdev, S. (1981): Effect of indolebutyric acid (IBA) on the Juvenile and adult cuttings of patharnakh (*Pyrus Pyrifolia* L.), Haryana, J. Hort. 10 (½) 36 - 41 Khalso College Ind. (Hort. Abst. 52 : 6567).
- Kaundal, G.S. and Bindra, A.S. (1984): Rhizogenesis in peach x almond hybrid as influenced by concentrated growth regulators. Punjab Agric. Univ., Ludhiana 141004, Ind. Sci. and Culture. 50(2):67-8.
- Kattab, M.M. and Stino, G.R. (1986 a): Comparative effects of soaking and rinsing in running water on rootability of two Malling Merton stocks. Assiut Journal of Agricultural Sciences, Vol. 17, 3, 159.
- and ----- (1986 b): Studies on the propagation of new dwarfing M.27 apple stock by cuttings. Assiut Journal of Agricultural Sciences, Vol. 17, 8, 149.
- Konarli, O. (1974): Propagation of apple rootstock by hardwood cuttings. Yalova Bahce Kullurlei Arastirmonve Egitim Markizi Dergisi (1974); 7 (1/2): 40-46 (C.F. Hort. Abstr., 46; 1845).
- Lanphear, F.O. and Meahl, R.P. (1963): Influence of endogenous rooting co-factors and environmental on the seasonal fluctuation in root initiation of selected evergreen cuttings. Proc. Amer. Soc. Hort. Sci., 83: 811-818.
- Lilian, L. Wu. and Overcach, J.P. (1971): Anatomical structure of Red Raspberry Hybrid cuttings root under Mist. J. Amer. Soc. Hort. Sci., 96:437-440.
- Lipecki, J. and Dennis, F.G. (1972): Growth inhibitors and rooting co-factors in relation to rooting response of softwood apple cuttings. Hort. Sc. 7:136-8.
- Mackenzie, K.A.D. (1978): Anatomy of rooting. Rep. E. Malling Res. Stn. P. 69.
- Makarem, M.M.S. (1985): Physiological and histological studies on the propagation of *Pyrus communis* pear. Ph.D. Thesis. Fac. Agric. Ain Shams Univ.
- Mehlenbacher, S.A., (1986): Rooting of interspecific peach hybrids by semi-hardwood cuttings. Hort Science 21 (6):1374-1377.
- Metcoalf, C.R. and Chalk, C. (1950). Anatomy of dicotylendons, vol. 11, Oxford Univ., press, U.K.

- Micholas, J. Cheffins, (1975): Nursery practice in relation to the carbohydrate resources of leafless hardwood cutting. The Int. Plant Prop. Soc. Hort. Sci. 25: 190-193.
- Mitttemprgher, L. (1963): Studies on the effect of etiolation on the production of adventitious roots in some plum varieties Riv. Ortoflorofruttic. Ital, 47:85-107, (Hort. Abstr., 33:6723)
- Molnar, J.M. and Lcroix, L.J. (1972): Studies on the rooting of cuttings of *Hydrangea macrophylla*, DNA and protein changes. Canada J. Bot., 50, 387. (Hort. Abst. 42:6617).
- Munoz, H.I. and Villalobos, P.A. (1977): Rooting of grapevine cuttings. II. Flactuation of rooting co-factors and inhibitors in two Vitis species. Agricultura Tecnica, 37:117-121. (Hort. Abst., 48:6401)
- Nakano, M.; Yuda, E. and Nakagawa, S. (1980): Studies on the rooting of hardwood cuttings of the grapevine cv. Delarvare II Hormonal changes in the cuttings. Jornal of the Japanese society for Horticultural science 48:385-394 (Hort. Abstr., 50:8882).
- Nicholas, J. Cheffins., (1975): Nursery practice in relation to the carbohydrate resources of leafless hardwood cutting. The Int. Plant Prop. Soc. Hort. Sci. 25: 190 -193.
- Nicrotra, A. and Damiano, C. (1975): Rooting trial of several peach and plum varieties by hardwood cuttings. Instituto Sperimentale per la Frutticoltura, Rome, Italy, Acta Hort. 54:63-70.
- Odom, R.E. and Carpenter, W.L. (1965): The relationship between endogenous indole auxins and the rooting of herbaceous cuttings. Proc. Amer. Soc. Hort. Sci., 87:494-501.
- Orlov, P.N. and Faustav, V.V. (1985): Role of perivascular fibers in adventitious root formation on softwood cuttings of horticultural plants. Izvestiya Timiryazevskoi sel'skokozyaistvennoi Akademii No. 6, 102-115. Hort. Abst. 56(3):1556.
- Pandey, D. and Pathak, R.K. (1981): Effect of rootstocks, IBA and phenolic compounds on the rooting of apple cuttings. Hort. Exper. and Training Centre, Chaubattia. Ind. Progressive Hort. 13(3/4):105-10.
- Pilet, P.E. and Michel, H. (1959): Auxin-stimulate root formation in *Ficus elastica*. Rev. Hort. Suisse, 32: 50-51 (Hort. Abst., 29: 1752).
- Pontikis, C.A.; K.A.D., Mackenzie and Howard, B.H. (1979): Establishment of initially unrooted stool shoots of M-27 apple rootstock. J. Hort. Sci. 54(1) 79-85. (Hort. Abst. 49:5592).
- Prasad, J.; Rabbani, A. and Ram, R.A. (1991). Rotting of hardwood cuttings of guava (*Psidium guajava*, L.) through bottom heat. Progressive Horticulture 20 (1-2) 20-23 [En, 6 ref.] Hort., N.D. Univ. of Agric. and Technology, Faizabad 224-229, India, (Hort. Abst. 61:10536).
- Prizhmontas, T., (1991): Action of auxin on rooting of sour cherry softwood cuttings. Sadovodstvo I vinogradorstvo (No. 4): 18-20 (Hort. Abst. 61:(10):213).

- Qrunfleh, M.M.; M.M.S., Arafeh and Al-Eisawi, D.W. (1992): Nodal anatomy of two low-chill peach cultivars as related to adventitious root formation. *Advances in Horticultural science* (3):129-133.
- Rao, V.N.M. (1958): Studies on the vegetative propagation of Cashew (*Anacardium occidentale* L.): Air-layering by contouring and etiolating of shoots. *Indian. J. Agric. Sci.*, 28: 181-197.
- Rana, H.S. and Chadha, T.R. (1992): Studies on the clonal propagation of *Prunus* species and their relationship with some biochemical characters. *Progressive Horticulture*. 21(3-4):329-335.
- Reddy, Y.N. and Majumdar, P.K. (1979). Synergism of phenols and flavonoids with IBA in regeneration of mango and guava vatika 1(I) 37-44 [En, 13 ref. [PI] India. (Hort. Abst. 49:9001).
- Reddy, K.M. and R.N. Singh (1988). Propagation of mango by cuttings. (I). Effect of bottom heat, propagation duration and wounding treatment on rooting of hardwood cuttings of mango. *Journal of Research APPU* 15(1)24-30 [En, 13 ref. 1p1., 1 Fig.] *Agric. Res. Sta. Warnagal* 506007, India. (Hort. Abst. 58:9352)
- Reighard, G.L.; D.W., Cain and Newall, W.C. (1990): Rooting and survival potential of hardwood cuttings of 406 species, cultivars, and hybrids of *Prunus*. *Hort Science* 25(5):517-18.
- Roberts, A.N. and Fughigami, L.H. (1973): Seasonal changes in auxin effect on rooting of Douglasfir stem cuttings as related to bud activity. *Physiol. Plant.* 28:215-21.
- Robitaille, H.A. and Yu, K.S. (1979): Cutting propagation of peaches. *Purdue Univ., West Lafayette. Indian, U.S.A. Compact Fruit Tree*, 79(12):95-7.
- Salama, M.A. (1975): Physiological studies on pecan cuttings. M.Sc. Thesis, Fac. of Agric. Ain Shams Univ. Egypt.
- Salama, M.A.; A.A. Moustafa; M.M. Hassan and Ibrahim Z.A. (1994): Influence of IBA application on rooting ability of apricot stem cuttings. II. Anatomical features of root development. *Egyptian Journal of Horticulture*, 18 (1) 105-111 [En, ar, 17 ref., 5 PI] Fac. of Agric., Cairo Univ. Fayoum, Egypt. (Hort. Abst. 64:2582).
- Satoo, S. (1956): Anatomical studies on the rooting of cuttings in coniferous species. *Bull. Tokyo. Univ. Forests*, 51:111-57.
- Sen, S.M. and Gouvillon, G.A. (1983): Factors affecting survival of "in field", rooted hardwood peach cuttings. *Hort. Science* 18(3) 324-325 [En, 11 ref., 2PI] *Georgia Univ., Athens, GA* 30602, USA. (Hort. Abst. 53:6989).
- Shizard, B.M. and Miles, N.W. (1977): Season and IBA induce changes in endogenous growth substances related to rooting of K-14 apple (*Malus sylvestris* L. Mill) roostock. *Compact Fruit tree* (177), 10 June, 100. (c.f. Hort. Abstr., 48:1062).

- Singh, S.M., and Gaur, N.V.S. (1971). Propagation guava (*psidium guava*, L.) by rooting. Effect of planting environmental and indole -3-butyric acid on the performance of different types of stem cuttings. B.V.J. Agric. Sci., res. 8:6-11 [bibl, 9, issued]. (Hort., Abst. 41:2595).
- Sinha, M.M.; Awasthi, D.N.; Tripathi, S.P. and Misra, R.S. (1986): Vegetative propagation of apple cultivars on their own roots : Effect of I.B.A. concentrations on the Air-layering of three commercial cultivars., Bio-chemical studies. Indian Jour. Hort. 48(½): 94-94.
- Smith, A.L (1936). Adventitious roots in stem cuttings of *Begonia maculata* and *B. semperflorens*. Amer. Jour., 23:511:15.
- Snedecor, G.W. and Cochran, W.C. (1980): Statistical methods, 7th ed. The Iowa State Univ. Press, Amer., Iowa U.S.A. pp. 507.
- Speigel, P. (1955): Some internal factors affecting rooting of cuttings. Inter. Hort. Congress 14:239-46.
- Srivastava, R.P. (1961): Studies in the responses of plant growth regulators in air-layered shoots of Mango J. Sci. Res. Bananas Hindu. Univ. 11: 1 - 3.
- Testolin, R.; D. Avanzato and Couvillon, G.A. (1989): Rooting peach by mallet cuttings. Acta Horticulturae 227, 224-229 [En, 6 ref., International Symposium on vegetative Propagation on woody Species, Pisa, Italy, 3-5 Sep. 1987] Dept. of Hort., Univ. of Georgia, Athens, GA 30602, USA (Hort. Abst. 59:4613).
- Tognoni, F.; Kawase, M. and Alpi, A. (1977): Seasonal changes in root ability and rooting substances of *Picea glauca* cuttings. J. Amer. Soc. Hort. Sci. 102:161:718.
- Turvoskaya, N.I. (1985): Effectiveness of treating cuttings with growth regulators. Sadovodstvo i Viodeile Moldewi N. 43, 30-35. (C.F. Plant Growth Reg. Abstr. 13 : 363).
- Velickovic, N. and Jovanovic, M. (1986): Effect of IBA on rhizogenic properties of M26 hardwood cuttings. Jugoslovenko Vocartsvo 20: (77/78 c3/4) 141-144. (C.F. Hort. Abstr., 56 : 9397).
- Verma, A.N.; Serivestova, D.C.; Ram, K. and Sharma, R.K. (1970): Effect of plant regulator on air-layering in Mango, Guava and Kogyeline. Allahabad fmr., 44: 139-151.
- Wally, Y.A.; El-Hammady, M.M.; Boulas, S.T. and Salama, M.A. (1980): Physiological ant. anatomical studies on secan hardwood cuttings Egypt., J. Hort. 8, No. 1, pp. 89-100.
- Wally, Y.A.; El-Hamady, M.M.; Boulas, S.T. and Abu-Amara, (1981): Rooting experiments on guava using hardwood stem cuttings. Egypt. Hour. Hort. 8(1): 77-86.
- Wareing, P.F. (1973): Hormones and propagation. The Int. Plant Prop. Soc. Hort. Sci. 33. 212-219.
- Wilcox, H. (1955): Regeneration of injured systems in noble. Fir. Bot. Gaz., 116:221-34.
- Wyman, D., (1952): Air-layering with polyethylene film, J. Roy. Hort. Soc. 77: 135-140.
- Yadawa, M.B.; C.B.S. Rajput and Singh, R.P. (1970): Origin of adventitious roots in citrus lemon, Burn, F. (Lemon) cutting. Indian J. Hort. 25:116-118 (Hort. Abstr., 40:4677).

- Yamashita, K. and Aishima, T. (1978):** Auxin and cytokinin like substances in the spring shoots of satsuma, a difficult-to-root species and of early to root species. Bulletin of the Faculty of Agriculture Miyazaki University 25(1):171-178. (Hort. Abstr., 50:574).
- Yousif, Y.H. and Abdullah, M.S. (1986):** Propagation of Mallington Merton 106 apple rootstock from hardwood cuttings. Iraq J. Agric. Sci. ZANCO 4(2): 3-19. (C.F. Hort. Abstr., 56: 6695).
- Youssef, N.F.; M.E. El-Said and Saad El-Din, I. (1991):** Effect of ethephon and IBA on rooting of Banaty guava cuttings. Zagazig Journal of Agricultural Research 18(1):123-133.
- Znajdek, Z.; J. Pienazek, and Crzyb, Z. (1978):** The effect of synthetic auxins on rooting of softwood and hardwood cuttings of caucasian pear. Prace Instytut Sadownictwa Skierniewiec, A 18:43-8., Poland. (Hort. Abst. 48:3236).
- Zewail, M.E.M. (1976):** Studies on the propagation of *Ficus decora* and *Cassia nodosa* by air-layering. M.Sc. Thesis, Fac. of Agric. Al-Azhar, Univ.
- Zora Singh; Sandhu, A.S. and Dhillon, B.S. (1984):** Callusing and rooting behavior of stem cuttings of peach (*Prunus persica*, Batsch) cv. Sharbati in response to indole butyric acid and cyclophosphamide. Proceedings of the national symposium on temperate fruits, 15, 18 March, 1984, Himachal Pradesh Agricultural University, Solan, India; Dr.Y.S.(Hort. Abst. 58 : 8537).