

# Chapter - 7

## BIBLIOGRAPHY

- Adarsh B, Anand V B and Nanda K K (1969) : Seasonal changes in the rooting of stem cutting of *Dalbergia sissoo*, and their relationship with biochemical changes . *Ind. J. Pl. Physiol* **12** : 152-163.
- Ahuja M R and Doerings G R (1967) : Effect of gibberellic acid on genetically tumour formation and vascularization in tomato, **216** : 800-801
- Anderson A S (1975) : Ethylene and root initiation of cutting *Proc. 2nd Int. Symp. Plant Growth Regulators Sofia* pp. 524-530.
- Arteca R (1990) : " Hormonal stimulation of Ethylene biosynthesis". In *Polyamines and Ethylene, Biochemistry, Physiology and Interaction*, (eds). H E Flores, R. N. Arteca and J. C. Shannon. American Society of Plant Physiologists, Rockvillia MD, pp. 216-223.
- Bachelord E P and Stowe B B (1963) : Rooting of cuttings of *Accr rubrum* and *Eucalyptus camaldulensis* Dehn. *Austr. J. Biol. Sci.*, **16** : 751-767.
- Batten, D J and Goodwin, P B (1978) : *Phytohormones and the induction of adventitious roots. In Phytohormones and Related compounds : a comprehensive Treatise. Vol. II* (eds) D S Letham, P B Goodwin and T J V Higgins Elsevier North-Holland Biochemical Press, Amsterdam, pp. 137-173.
- Bardley M V and Crane J C (1957) : Gibberellin stimulated activity in stems of apricot spur shoots, *Science*, **126** : 972-973.
- Bellamine J Pencl C Greppin II. and Gaspar T (1998) : Confirmation of the role of auxin and calcium in the late phases of adventitious root formation *Plant Growth Regul*, **26** : 191-194.
- Bewly J D and Black M (1982) : *Physiology and biochemistry of seed in relation to germination*, Vol. I. Springer-Verlag, Burlin.
- Bewly J D and Black M (1982) : *Physiology and biochemistry of seed in relation to growth* Vol II. *Viability, dormancy and environmental control*. Springer Verlag, Burlin.
- Bhattacharya S, Bhattacharya N C and Nanda K K (1974) L Effect of purine and pyrimidine bases in the differentiation of roots on hypocotyl cuttings of *impatiens balsamina* in relation to photosynthates. *Int. Symp. Photosynthetic system and Productivity*, Calcutta.

- Bhattacharjee S K and Bhaduri P N (1959) : Floral biology and cytogenetics of diploid and autopolyploid *R. Bull. Bot. Soc. Beng.* **13** : 86-92.
- Bhattacharjee S K and Bhaduri P N (1960) : Propagation of diploid and tetraploid *Rauvolfia serpentina* by cuttings. *R. Bull. Bot. Soc. Beng.* **14** : 76-79.
- Bhombota J R (1959) : Use hormones to induce growth for fruit plant cuttings. *Curr. Sci.* **28** : 126-127.
- Blazich F A (1989) : Mineral nutrition and adventitious rooting. *In Adventitious root formation in cutting*, (eds) T.D. Davis, BE Haissing and N Sankhla. Dioscarides Press, Portland, OR, pp. 61-69.
- Blakesley D and Chaldecott M A (1993) : The role of endogenous auxin in root initiation. Sensivity and evidence from studies on transgenic plant tissues *Plant Growth Reg.* **13** : 77-84.
- Blakally L M, Rodaway S J, Hallen L B and Croker S G (1972) : Control and Kinetics of branch root formation in cultured root-segments of *Haplopappus ravenii*, *Plant Physiol* **50** : 35-42.
- Bower M R, Hawarth J and Langman K A (1975) : Effect of auxins and other factors on the rooting of *Pinus contarta* cutting. *Ann. Bot.* **39** : 647-656.
- Bostrack J M and Struckmeyer B E (1967) : Effect of gibberillic acid on the growth and anatomy of *Coleus blumei*, *Antirrhinum majus* and *Salvia spendids*, *New Physiol*, **66** : 536-544.
- Breen P J and Mraoka T (1973) : Effect of IBA on distribution of <sup>14</sup>C Photosynthate in soft wood cutting Mariana 2624 Plum. *J. Am. soc. Hort. Sci.* **98**(5) : 436-439.
- Brian, P W and Hemming H G (1955) : The effect of GA<sub>3</sub> on shoot growth of pea seedlings, *Physiol, Plant* **8** : 669-81.
- Brian P W, Hemming H G, and Lowe D (1960) : Inhibition of rooting of cutting by gibberillic acid. *Ann. Bot.(NS)*, **29**, 407-419.
- Burstrom H (1960) : Influence of iron and GA<sub>3</sub> on the light sensitivity of roots. *Physiol. Plant.* **13** : 597-615.
- Butcher D N and Street H E (1960) : The effects of gibberellins on the growth of excised tomato roots. *J. Exp. Bot.* **11** : 206-216.

- Butten D J and Mullins M G (1968) : Ethylene and adventitious root formation in hypocotyl segments of etiolated mung bean seedlings. *Planta* **138** : 193-197.
- Chandra V (1956) : Inducing rooting in stem cuttings of *Rauvolfia canescens* L. *Sci. Cult.* **22** : 101.
- Chauhan K S and Singh J (1971) : Effect of moisture stress and IBA on rooting of stem cuttings of *Pomegranate*. *Ind. J. Agril. Sci.* **41**(4).
- Chottopadhyay S K (1959) : Treatment of *Ipecae* cuttings with hormones and some minerals. *Sci and Cult.* **25** : 318.
- Chattopadhaya SK (1960) : A note on the vegetative propagation of some of the essential oil-yielding plants newly introduced at Mungpoo, Darjeeling. *Sci & Cult* **25** : 687-88.
- Cleland R E (1969) : The gibberellins. In : M. B. Wilkins (ed.) *The physiology of Plant growth and development*. Mc.Graw Hill. London, pp. 49-84.
- Cooke A R and Randall D I (1968) : 2-chloroethylene acid as ethylene releasing agents for the induction of flowering in pineapples. *Nature* : **218** : 974-975.
- Cucumis J N and Fiorino P (1969) : Pre-harvest defoliation of apple nursery stock using ethrel. *Hort. Sci* **78** : 47-54.
- Curtis P J and Cross B E (1954) : Gibberellic acid. A new metabolite from the culture filtrates of *Gibberella fujikuroi*. *Chemistry and Industry*, 1006-1068.
- Das K C (1993) : Effect of certain biophysical and biochemical factors on the formation of adventitious roots on stem cuttings. Ph.D. Thesis, Gauhati University.
- Davis T D and Hassig B E (1994) : *Biology of Adventitious root formation* Plenum Press. New York.
- Dhaliwal G : Bhattacharya N C and Nanda K K (1974) : Promotion of rooting by cycloheximide on hypocotyl cuttings of *Impatiens balsamina* and associated changes in the pattern of isoperoxidase. *Ind. J. Plant Physiol* **7** : 73-81.
- Dikshit N N (1956) : Regeneration of stem cuttings of plum (*Prunus salicina* Lindl.) as influenced by GA<sub>3</sub>-IBA *Ind. J. Hort.* **13** : 81-88.
- Dikshit N N (1957) : Propagation of some commercial varieties of plum (*Prunus sp.*) by stem cuttings with-IBA. *Sci. and Cult.* **22** : 291.

- Dore J (1965) : Physiology of regeneration in cormophytes. *Encyl. Pl. Physiol.* **15**(2) : 1-90.
- Draber W (1977) : Naturlicle and synthetiscle, Pflanzenwaclutum saegulatoren. In. R. Weglu (ed.) *Chemic der pflanzensclutzund Schadlling sbekam fungsmittel. Brand-4* Sptinger Verlag. Berlin, Heidelberg, New York.
- Erickson E N and Mohammad S (1974) : Root formation in pea cuttings. 11. The influence of IAA at different developmental stages. *Physiol. Pl.* **30** : 166-170.
- Erickson E N (1973) : Root formation in pea cuttings. I. Effects of decapilation and disbudding at different development stages. *Physiol. Plant.* **26** : 503-506.
- Erickson E N (1973) : Root formation in pea cuttings. III. The influence of cytokinin at different development stages". *Physiol Plant* **30** : 163-167.
- Friedman R, Altman A and Bacharch U, (1982) : Polyamines and root formation in mungbean hypocotyl cuttings. I. Effects of exogenous compounds and changes in endogeneous polyamine content. *Plant Physiol.* **70** : 844-848.
- Fullenberg G (1969) : Influence of gibberellic acid and Kinetin upon the auxin-induced root initiation and neucleoprotein of pea epicalyst *Pffflanzenphysiol.* **60** : 457-466.
- Gaspar T, and Hoffinger M (1989) : Auxin metablism during rooting. In : Adventitious Root formation in cuttings. Advances in plant sciences series. Vol.II (Davis T D, Hassig BE and Sankhala N eds.) *Diascorides Press, Portland, oregon* pp. 177-131.
- Gautheret R J (1969) : Investigation on the root formation the tissue of *Helianthus tuberosus* cultured *in vitro*. *Am. J. Bot.* **56**(7) 207-217.
- Gergale DD, Kulkarni DD and Narasinham R (1971) : Effect of auxins and gibberellic acid on growth and differentiation of *Morus alba* and *Populus nigra* tissues *in vitro*, *Ind. J. Exp. Biol* **9** : 981-984.
- Ghosh, D. Bandopadhyay A and Sen S K (1988) : Effect of NAA and IBA on adventitious root formation in stem cuttings of Pomegranate under intermittent mist. *Ind. Agric.* **32**(4).
- Ginzburg, C (1967) : Organization of the adventitious root apex in *Tamarix aphylla* *Amer. J. Bot.* **54** : 4-8.

- Greenwood MS and Berlyn GP (1973) : Sucrose : IAA interaction on root regeneration of *Pyrus jambertian* embryo cuttings. *Am. J. Bot.* **60** : 42-47.
- Gregory, FG and Samantarai B (1950) : Factors concerned in the rooting response of isolated leaves *J. Exp. Bot.* **1** : 159-192.
- Haissig, BE (1970) : Influence of IAA on adventitious root primordia of brittle willow. *Planta.* **95** : 27-35.
- Haissig BE (1970b) Preformed adventitious root initiation in brittle willow grown in a controlled environment *Can. J. Bot.*, **48** : 7309.
- Haissig BE (1972) : Meristematic activity during adventitious root primordium development *Plant Physiol*, **49** : 886-892.
- Halder BC, Rahman MS, Khan MA, Amin MR, Kabir MA (2002) : Performance of different ornamental plants for stem cutting with IBA. *Pakistan Journal of Biological Science* **5** (4) : 388-389, 2002.
- Hartmann HT (1976) : *Plant propagation Principle and Practices*. Prentices Hall of India Rt. Ltd.; New Delhi.
- Hansen, J (1987) : Stock Plant lighting and adventitious root formation *Hort. Science* **22** : 746-749.
- Heide, OM (1965) : Photoperiodic effects on the regeneration ability of Begonia leaf cuttings. *Physio, Plant* **18** : 185-190.
- Howard BH (1968) : The influence of IBA and basal temperature on rooting of apple root stock hard wood cuttings *J. Hort. Sci.* **43** : 23-21.
- Hurov HR (1967) : The polythene bag method of rooting on cuttings. *Pl. Propagator* **13** : 30-31.
- Jauhari OS (1960) : Some observation on vegetative propagation of *Zizyphus Promegranate* cuttings with the aid of growth regulators. *Curr. Sci.* **29** : 30-31.
- Jauhari OS and Kohli VP (1960) : Studies on the propagation of peach by stem cuttings with the aid of growth regulators. *Curr. Sci.* **29** : 282-283.
- Julliard B (1964) : Interaction de' auxine et de la gibberellic sur la rhizogenes des boutures de vigna (*Vitis vinifera* L) *Compt. Rend.* **258** : 5716-5719.
- Jansen, H (1967) : Die wirkiug von Gibberellinsaure und idolylessigsaure auf der wurzelbildung von Tomaten strecklingen, *Planta.* **74** : 371-378.

- Jarvis BC, Shannon P R M, and Yasmin S (1983) : Involvement polymines with adventitious root development in stem cutting of mungbean. *Plant cell Physiol* 24 : 677-683.
- Jasmine J, Rathnavalli AP, Swarnpiria R (2003) : Effect of growth regulators on cuttings of Marunthukoorkan (*Coleus Forskohlii*). *Abstract* 2nd International Congress of Plant Physiology, Jan 8-12, 2003, New Delhi, India. pp-534
- Jones, RL and MacMillan J (1984) : Gibberellins. In M B Wilkins (ed.) *Advanced Plant Physiol.* pp. 21-52 ELBS/Longman, England.
- Kender WJ, Hall IV, Aldus LE and Forsyth FR (1969) : Stimulation of rhizome and shoot growth of the low brush blueberry by 2-Chloroethylene phosphonic acid. *Can. J. Pl. Sci.* 49 : 95-96.
- Krishnamoorthy HN (1981) : Gibberellin and plant growth. Haryana Agricultural University. Willy Estern Limited, New Delhi.
- Kurosawa E (1926) : Experimental studies on the secretion of *Fusarium heterospermum* on rice plants. *Trans. nat. Hist. Soc. Formosa*, 16 : 213-227.
- Larsen K (1982) : Manipulation of crop growth by ethylene and some implications of the mode of generation. In J. S. (ed.). Chemical manipulation of crop growth and development. 1982. Butterworth Scientific London.
- Larson PR (1962) Auxin gradiants in regulations of cambial activity. In *Tree growth*. T.T. Kozlowski (ed.). The Ronald Press Company, N.Y. pp. 97-117.
- Leopold, AC (1955) : *Auxin and Plant Growth* Univ. California Press, Barkley USA. 202.
- Leroux R (1968) : Action de J acid gibberellique sur la rhizogenese de Pragments de tiges de Pais (*Pisum sativum* L) cultivars in vitro en Presence d' auxin fl'doscurite ou f La Lumiere, *Compt. Rend.* 266(D) : 106-18.
- Lingaraj DS and Chandrasekhariah SR (1961) : Growth regulators and rooting of cuttings in *Antirrhinum majus*. *Curr. Sci.* 30 : 392-393.
- Lovell PH and White J (1986) : Anatomical changes during adventitious root formation. In *New root formation in Plant and cuttings*, (ed.) MB Jackson, Inartinus Nishaff Publishers, Dordrecht, the Netherlands.

- Malik CP (1999) : *Advances in Plant Hormones Research* : Indian Scenario Agro. Botanical Publishers, Jodhpur.
- Malik CP and Shrivastava AK (1982) : *Text book of Plant Physiology*, Kalayani Publisher, New Delhi.
- MacMillan J (1974) : Metabolic processes related to gibberellin biosynthesis in mutant *Gibberella fujikuroi*. *Planta* (Bert.) **74** : 33-49.
- Mahlstede JP and Harber ES (1957) : *Propagation of Horticultural Plants*. John Wiley and Sons. New York Ltd.
- Maurel C Barbier H, Brevet J, Spena A, Tempe J and Guern J (1991) : *Agrobacterium rhizogenes* T-DNA genes and sensitivity of plant protoplast to auxin in advance in molecular genetics.
- Moe R and Anderson A S (1989) : "Stock plant environment and subsequent adventitious rooting". In *Adventitious Root Formation in cutting*, eds., T.D. Davis, B.E. Haissig and N. Sankhla. Dioscorides Press, Portland, OR, pp-214-234.
- Monsour AH (1968) : Studies on the suitability of some Mediterranean fruit trees for propagation from cuttings. *Promol. Franch* **10** : 243-250.
- Morey PR and Cronshaw J (1968) : Developmental changes in the secondary xylem of *Accr rubrum* induced by various auxins and 2,3,5-trichlorobenzoic acid, *Protoplasm*, **65** : 287-313.
- Murashige T (1964) : Analysis of the inhibition of organ formation in tobacco tissue culture by gibberellin *Physiol. Plant.* **17** : 636-643.
- Mudge KW (1989) : *Effect of Ethylene on rooting. In adventitious root formation in cuttings.* (eds.) T D Danis, BE Maissing, and N Sankhla, Dioscorides Press, Portland, OR, pp. 150-161.
- Muhammad, Amin N, Nahar K, Ahmed F and Ahmed (2002) : Micropopagation of *Annona squamosa* Linn. Using Explants (Shoot Tip and Node) of Field Grown Mature Plants. *Pakistan Journal of Biological Science* **5** (4) : 394-397, 2002.
- Nag S, Saha K and Choudhuri MA (2000) : Effect of different plant growth regulators on rooting performance of cuttings of Mungbean. *Indian J. Plant. Physiol.* Vol-5, No.4, (N.S.) pp. 349-353.



- Nanda KK (1970) : Investigation on the use of auxins in vegetative reproduction of forest plants. *Final report PI-480. Research Project A 7 S-11.*
- Nanda KK (1975) : Physiology of adventitious root formation, *Ind. J. Plu. Physiol.* **18** : 80-89.
- Nanda KK, Purohit AN, Adrash Bala and Anand VK (1968) : Seasonal rooting response of stem cutting of some forest tree species to auxins. *Ind. Forester*, **44** : 154-162.
- Nanda KK, Purohit AN, Tandon R and Adarsh Bala (1967) : Mechanism of auxin action in rootings of cuttings. *In S.M. Sicar (ed) International symposium on Plant growth substances.* pp : 201-209.
- Nanda KK, Purohit AN and Kochhar VK (1969) : Effect of auxins and light on rooting stem cuttings of *Populus nigra*, *Salix tetrasperma*, *Ipomoea fistulosa* and *Hibiscus notodus* in relation to polarity. *Physiol. Plant*, **22** : 635-636.
- Nanda, KK and Sethi, R (1979) : *Populus* as a tool in understanding the small Physiology of adventitious root formation. *Proc. Stmp. Silviculture Management and Utilization of Palars.* October 15-18, Srinagar pp 43-58.
- Nanda KK, Jain MK (1971) : Interaction effectsm of glucose and auxins in rooting eliolated stem segments of *Salix tetrasperma*. *New Physiol.* **70** : 943-945.
- Nanda KK, Jain MK and Bhattacharya NC (1973a) : Rooting response of etiolated stem segments of *Populus nigra* to antimetabolites in relation to auxin and nutrition. *Biol. Plant* **15** : 412-418.
- Nanda KK, Jain MK and Malhotra S (1971) : Effect of glucose and auxins in rooting etiolated stem segment in *Populus nigra*. *Physiol plant.* **24** : 387-391.
- Nanda, Jain MK, Bhattacharya NC (1973) : Electrophoretic separation of ribonucleic acid on polycrylamide gels in relation to rooting of etiolated stem segments of *Populus nigra* *Biochem. Physiol Pflanzen* **164** : 632-635.
- Nanda KK, Bhattacharya NC and Kaur NP (1973b) : Disc electrophoretic studies of oxidase and their relationship with rooting of etiolated stem segments of *Populus nigra*. *Physiol Plant* **29** : 442-444.

- Nanda KK, Bhattacharya NC and Kochhar VK (1973c) : Some studies on rooting of stem cuttings. *J. Andhrapradesh Acad. Sci.* **11** : 75-99.
- Nanda KK, Bhattacharya NC and Kochhar VK (1974) : Biochemical basis of adventitious root formation on stem cuttings. *Newzealand . J. For. Sci.* **4** : 347-358.
- Nanda KK and Jain MK (1972) : Mode of action on IAA and GA<sub>3</sub> on root and shoot growth of epiphyllous buds of *Bryophyllum tubiflorum* *J. Exp. Bot.* **23** : 980-986.
- Nanda KK, Anand VK and Kumar P (1970) : Some investigation on auxin effects on rooting of stem cuttings of forest plant *Indian Forester.* **96** : 171-187.
- Nell TA (1971) : The effect of several growth regulators on rooting of 3 Azalea cultivars. *Hort. Sci.* **6** : 275-76.
- Netien G (1975) : Action des gibberellines sur La culture des tissus vegetaux cultives *in vitro* *Compt. Rend.* **244** : 2732-2733.
- Okunda M (1959) : Response of *Pharbitis nil* to gibberellin with special reference to anatomical features. *Bot. Mag.* **72** : 443-499.
- Pandey D, Tripathi SP, Upadhyay SN and Tewari JP (1983) : Biochemical basis of Walnut rooting through shooting 11. Effects of carbohydrate nitrogen functions rooting cofactors, inhibitors, *Punjab Hort. J.* **23** : 203-208.
- Panncerselvam K, Bhavanisankar K, Jayapragasam M, Kumar A, Rathakrishnan P, Vijayaraghavan A, and Adalarasan R (2003) : Effect of growth regulators and planting media on rooting of cuttings in *Nothopadyes nimmoniana* mabberly. *Abstracts* : 2nd International Congress of Plant Physiology, Jan 8-12, 2003, New Delhi, India. pp. 492.
- Panse VG and Sukhatme PV (1985) : *Statistical Methods for Agricultural Workers* ICAR, New Delhi.
- Pecket RC (1960) : Effect of GA<sub>3</sub> on excised pea roots *Nature*, **185** : 114.
- Prasad A (1962) : A note on vegetative Propagation of medicinal Plants. *Curr. Sci.* **31** : 202-203.
- Pratt HK and Goeschl JD (1969) : *Physiological role of ethylene in plants.* *Ann. Rev. Pl. Physiol.* **20** : 541-584.
- Priestley J. H and Swingle CF (1929) : :Vegetative propagation from the standpoint of plant anatomy." *USDA Tech. Bull* 151.

- Priestly GL, Davis WC, William Jr. and Newall C (1990) : Rooting and survival potential of hardwood cuttings of *Prunus*. *Hort. Sci.* **25** : 517-518.
- Reighard GL, David WC, William Jr. and Newall C (1990) : Rooting and Survival Potential of hardwood cuttings of 406 sp. cultivar and hybrid of prunus. *Hort. Sci.* **25** : 517-518.
- Reinert J and Besemer J (1967) : Gibberellinsäure, ein Inhibitor morphogenetischer Prozesse, wiss. Z. Univ. Rostock. Math. Nat. Reihe. **16** : 599-604.
- Read PE and Hoysler V (1969) : The effect of several growth regulating chemicals on the rooting of cuttings of ornamental species. *Hort. Sci.*, **4** : 171.
- Read PE and Hosler V (1971) : Improving rooting of carnations and poinsettias with succinic acid. 2,2-dimethyl hydroxide, *Hort. Sci.* **6** : 350-351.
- Reuveni O and Raviv M (1981) : "Importance of leaf relation to rooting avocado cuttings". *J. Amer. Soc. Hort. Sci.* **106** :127-130.
- Richardson SD (1957) : Radicle elongation of *Pseudotsuga menziesii* in relation to light and gibberellic acid *Nature*, **181** : 429.
- Roy NN, Bose RN, and Bose TK (1972) : Interaction of auxin with growth retarding, inhibiting, and ethylene production chemicals in rooting in cuttings *Plant Cell Physiol.* **13** : 1123-1127.
- Roberts LW and Fosket DE (1966) : Interaction of gibberellic acid and indoleacetic acid in the differentiation of wound vessel members. *New Phytol.* **65** : 5-8.
- Samantarai B and Kabi T (1954) : Rooting responses in isolated tropical leaves. *Proc. Ind. Sci. Congr.* **39(B)** : 243-248.
- Samantarai B and Sinha SK (1957) : Relation of certain hormonal and nutritional factors to the region of root emergence in isolated leaves *Ipomoea batatas* Lamk. *J. Ind. Bot. Soc.* **34** : 107-11
- Samantari B (1950) : A note on the induction of roots on the twigs of *Magnolia grandiflora* with the aid of synthetic hormones *Ind. J. Hort.* **12** : 32-33.
- Sarmah KC (1980) : Induction of root formation in cuttings by the application of plant hormones. *Ph.D. Thesis, Gauhati University*,
- Schreiber LR (1973) : Hydroponic rooting of cuttings of American elm (*Ulmus americana* L.) *J. Am. Soc. Hort Sci.* **98(4)** : 402-406.

- Sen PK (1941) : Effect of IBA and three other acid on rooting of *Litchi* cuttings. *Proc. Ind. Sci. Congr.* **228**(111) : 262.
- Sen P K and Bose T K (1959a) : Effect of growth regulating substances on rice *Ind. Agric.* **3** : 13-6.
- Sen P K and Bose T K (1959b) : Effect of growth substances on rooting of Jack fruit (*Artocarpus integrifolia* Linn. F.) layerings *Ind. Agric.* **3** : 43-7.
- Sen P K and Bose T K (1962) : Effect of growth substances on root formation in cuttings of some varieties of lemon (*Citrus limon*) and Lime (*C. aurantifolia*) *Ind. Agric.* **6** : 217-219.
- Sengupta JC and Chattopadhyay SK (1954) : Harmones and rootings in inact plants and cuttings. *Curr. Sci.* **23** : 291-295.
- Shanmugavelu KG (1960) : A note on the responses of rootings of cuttings of *Hibiscus rosa-sinensis* Linn. and *Allamanda catjartica* L. to the application of plant growth regulators. *Sci. Cult.* **26** : 136-137.
- Shanmugavelu KG (1961a) : A note on the effect of Plant growth regulators on rooting *Hibiscus rosa-sinensis* L. *Ind. J. Hort.* **18** : 169-170.
- Shanmugavelu KG (1961b) : Effect of Plant growth regulators on the hard wood cuttings of *Hibiscus rosa-sinensis* L. *Madras. Agric. J.* **48**(c) : 208-211.
- Shen WH, Petit A, Guern J and Teonpe J (1988) : Hairy roots are more sensitive to auxin than normal roots. *Proc. Natl. Acad. Sci. USA* **85** : 3417-342.
- Shininger TL (1970) : The regulation of cambial division and secondary xylem differentiation in *Xanthium* by auxins and gibberellin, *plant physiol*, **47** : 417-422.
- Shyr Y and Kao C (1985) : Polyamincs and root formation in Mungbean hypocotyl cuttings *Bot. Bull. Academia Sinica.* **26** : 179-184.
- Singh P (1956) : Vegetative propagation in some Begoniaceae. *Sci & Cult.* **21** : 737-738.
- Singh R.P. (1963) : Studies into the effect of source, plant regulator treatment and planting environment on citrus cuttings. III. The influence of source and concentration of IBA and the performance of sweet and Kagzi lime hard wood cuttings. *Sci & Cult.* **20** : 43-50.
- Singh J P (1957) : The effect of some new growth regulating substances on rootings of *Coleus* cuttings. *Ind. J. Hort.* **14** : 53-57.

- Singh R P (1962) : Studies into effect of source, plant regulators treatment and planting environment on Citrus cuttings. *Sci & Cult.* **19** : 25-31.
- Singh S N and Teotia S N (1951) : Effect of some hormones on the rootage of mango. *Sci & Cult.* **10** : 91-98.
- Singh S N, Brar S S and Gill S (1987) : Effect of IBA on rhizogenesis in sand pear. (*Prunus piriifolia*) *Ind. J. Hort.* **44** : 202-206.
- Singh S N and Sarma M K (1954) : Studies on the effect of some hormones on the rootage of *Eriobotrya Japonica* Lind. Var. Golden Yellow. *Sci. & Cult* **19** : 508-509.
- Singh S N and Bhatnagar G S (1955) : Introducing rooting in stem cuttings of *Jasminium granddiflorum*. *Sci & Cult.* **21** : 210-212.
- Singh S, Singh K, Chugh DV (1961) : Marcotting with some plant regulators in loquat (*Eriobotrya Japonica* (Linn)) *Sci. & Cult.* **18** : 123-29.
- Sinha RB, Mallik PC and Chhonker VS (1962) : Effect of plant regulators on rootage of guava (*Psidium guajava*) cuttings *Indian J. Hort.* **19** : 120-27.
- Skok J (1968) L Morphogenetic responses of debudded tobacco plants to GA<sub>3</sub> and IAA, *Plant Physiol.* **43** : 215-223.
- Spanjersberg G and Gautheret R J (1964) : Nouvelles recherches sur l'acid' gibberellique sur les tissus de Topinambour cultivés in vitro. *Compt Rend* **258** : 4121-4125.
- Stoutemeyer V T (1954) : Encouragement of roots of plant regulators. In HB Tukey (ed) "*Plant regulators in Agriculture*". John Willey and sons. Inc. New York : 44.
- Stowe BB and Yamaki T (1957) : The history and physiological action of the gibberellions. *Ann. Rev. Pl. Physiol.* **8** : 181-216.
- Stodola FH, Raper K B, Fennell HF, Conway VE, Sohns CT, Langford LT, Jackson RW (1955) : The microbiological production of gibberellions A and X. *Arch. Biochem and Biophys.* **54** : 240-245.
- Streay J R (1969) : Ethrel and an ethylene evolving plant growth regulators. *Med Rijks. Land. Gent.* **34** : 462-473.

- Takahashi N, Phinmy BO and MacMillan J (1990) (ed) : *Gibberellins* PP 411-415 Springer Verlag NY Berlin Heidelberg.
- Thimann KV and Koepfli J B (1935) - Identity of growth promoting and root forming substances of Plants. *Nature* **135** : 101-102.
- Thimann K V and Behnke-Rogers J (1950) : The use of auxin in the rooting of woody cuttings. *Harvard Fort. Petersham. Pub. No.* **1344**.
- Thimann K V and West FW (1934) : On the chemical nature of the root forming hormone. *Proc. Kon. Ned. Akad. Wet.* **37** : 456-459.
- Thimann K V Poutasse EF (1941) Factors effecting root formation of *Phaseolus vulgaris*. *Plant Physiol.* **16** : 585-598.
- Torrey J G (1976) : Root hormones and plant growth. *Ann. Rev. Pl. Physiol.* **27** : 435-459.
- Torrey J G (1986) : Endogenous and exogenous influences on the regulation of lateral root formation. In : *New Root formation in Plant and Cuttings.* (Jackson M.B. ed.) *Martinus Nijhoff Pub. Dordrecht* pp. 32-66.
- Varner JE (1964) : Gibberellic acid controlled synthesis of  $\alpha$ -amylase in barley endosperm. *Plant Physiol.* **39** : 413-415.
- Van-Overbeek J, Gordon S A and Gregory L E (1946) : An analysis of the function of the leaf in the process of root formation in cuttings. *Am J. Bot.* **33** : 100-107.
- Von Sachs, J. (1982). "Stoff und form der Pflanzenorgane. I". *Arb. Bot. Int. Wiirzburg* **2** : 689-718.
- Wareing P F (1958) : Interaction between IAA and GA<sub>3</sub> in cambial activity. *Nature* **181** : 1744-1745.
- Wareing P F and Smith N G (1963) : Physiological studies on the rooting of cuttings. *Rep. Forest. Res. Lon. Forest. Comm.*
- Wareing PF (1951) *Physiol Plant* **4** : 546-562.
- Weaver R J (1972) : *Plant growth substances in Agriculture.* W.H. Freeman and Company. San Francisco.
- Went F (1929) : On a substance causing root formation. *Proc. Kon. Ned. Arad. Went.* **32** : 35-39.

- Went F W (1938) : Specific factors other than auxin affecting growth and root formation. *Plant physiol* **13** : 55-80.
- West C A and Phinney B O (1956) : Properties of gibberellin-like factors from extracts of higher Plants. *Plant Physiol.* **31** : Suppl. XX.
- Wort DJ (1962) : Physiology of cambial activity. In : *Tree growth T.T. Kozlowski.* The Ronald Press Company N. Y. pp. 89-95.
- Yabuta T (1935) : Biochemistry of the " bakanae" fungus of rice. *Japanese Agr. Hort.* **10** : (17-22)
- Zimmermann P W and Wilcoxon F (1935) : Several chemical growth substances which cause initiation of roots and other responses in plants. *Ibid.* **7** : 209-229
- Zimmerman P W and Hitchcock AE (1933) : Initiation and stimulation of adventitious roots caused by unsaturated hydrocarbon gases. *Contrib, Boyce. Thompson Inst.* **5** : 351-369.
- Zimmerman PW and Hitchcock AE (1933) : Initiation from exposure of plants to carbonmonoxide gas *Contr. Boyce Thompson. Inst.* **5** : 1-17.
- Zimmerman PW and Hitchcock A E 1939 : Effect of growth substances on the rooting responses of cuttings. *Contr.Boyce Thompson Inst. Pl. Res.* **8** : 63-79.

