BIBLIOGRAPHY

BIBLIOGRAPHY

Afridi, M.M.R.K. and Hewitt, E.J. (1962). Induction and Stability of nitrate reductase in tissues of higher plants. Life Sci. 1: 287.

Afridi, M.M.R.K. and Hewitt, E.J. (1964). The inducible formation and stability of nitrate reductase in higher plants. I. J. Exptl. Bot. 15:251-271.

Arya, H.C. (1965). Effect of naphthaleneacetic acid on the nitrogen and nucleic acid contents of phylloxera gall and normal grape stem single cell clones in tissue culture. In "Tissue culture" (C.V.Ramakrishnan ed.)- Dr. W. Junk Publishers, Hague.

Arya, H.C., Hilderbrandt, A.C. and Riker, A.J. (1962). Clonal variation of grape stem and Phylloxera gall callus growing in vitro in different concentrations of sugars. Amer. J. Bot. 49: 368-372.

Audus, L.J. (1963). Plant growth substances. Leonard Hill (Books) Ltd., London.

Babcock, P.A. and Carew, D.P. (1962). Tissue culture of Apocyanaceae-I. Culture requirements and alkaloid analysis. Lloydia, 25:209-213.

Bajaj, Y.P.S. (1970). Effect of Gamma-irradiation on growth, RNA, protein and nitrogen contents of Bean Callus cultures. Ann. Bot. 34: 1089-1896 (1970).

Beevers, L., Schrader, L.E., Flesher, D. and Hageman, R.H. (1965). Role of light and nitrate in the induction of nitrate reductase in radish cotyledons and maize seedlings. Plant. Physiol. 40:691-698.

Berezovsky, M.V. and Kurochkina, V.F. (1957). Effect of 2,4-Dichlorophenoxyacetic acid on transformation of phosphrus compounds in plants. Dokkhady. Akad. Nauk. S.S.S.R. 113:458-461.

Bonner, J. and Bandursky, R.S. (1952). Studies on the physiology. Pharmacology and biochemistry of auxins. Ann. Rev. Pl. Physiol. 3: 59-86.

*Brakke, M.K. and Nickell, L.G. (1955). Secretion of an enzyme form intact cells of a higher plant tumor. Année biol. 31: 215-224.

Burkholder, P.R. Nickell, L.G. (1949). A typical growth of plants. I. Cultivation of virus tumors of Rumex on nutrient agar. Bot. Gaz. 110:426-437.

Butcher, D.N. and Street, H.E. (1964). Excised root culture. Bot. Rev. 30:513.

Butenko, P.G. (1968). Plant tissue culture and plant morphogenesis (M.Kh.Chailakhyan ed.). Israel programme for scientific translations, Jerusalem.

Campbell, G., Chan, E.C.S. and Barker, W.G. (1965). Growth of lettuce and cauliflower tissues in vitro and their production of antimicrobial metabolites. Can. J. Microbiol. 11:785-788.

Candella, M.I., Fisher, E.G. and Hewitt, E.J. (1957). Molybdenum as a plant nutrient. X. Some factors affecting the activity of nitrate reductase in cauliflower plants grown with different nitrogen sources and molybdenum levels in sand cultures. 32: 208-288.

Cocking, E.C. and Yemm, E.W. (1961). Synthesis of amino acids and proteins in barley seedlings. 60:103-116.

*Cove, D.J. (1966). Biochem. Biophys. Acta. 113:51.

David, S.B. (1954). Studies on the nutrition of excised roots of Medicago sativa, L. Ph.D. Thesis. University of Manchester.

Delwiche, C.C. (1951). The assimilation of ammonia and nitrate by tobacco plants. J. Biol. Chem. 189: 167-175.

Dormer, K.J. and Street, H.E. (1949). The carbohydrate nutrition of tomato roots. Ann. Bot. 13:199.

*Eriksson, T.S. (1965). The effects of UV-irradiation on cultures of Haplopappus gracilis. IV. Int. Plant tissue culture conf., Penn. State University.

Evans, H.J. and Nason, A. (1953). Pyridine nucleotide nitrate reductase from extracts of higher plants. Plant Physiol. 28:233-254.

Fadia, V.P. (1971). Tissue culture studies in Cucurbits. Ph.D. Thesis, M.S. University of Baroda, Baroda.

Ferguson,J.D., Street, H.E. and David, S.B. (1958). The carbohydrate nutrition of tomato roots. VI. The inhibition of excised root growth by galatose and mannose and its reversal by dextrose and xylose. Ann. Bot. 22:525.

*
Filner, P. (1966). Regulation of nitrate reductase in cultured tobacco cells. Biochem. Biophys. Acta. 118:299-310.

Fiske, C.A. and Subbarow, V. (1925). The colourimetric determination of phosphorous. J. Biol. Chem. 66:375-400.

Gautheret, R.J. (1941). Action der saccharose sur la croissance des tissus de carotte. C.R. Soc. Biol., Paris, 135:875-878.

Gautheret, R.J. (1942). Sur la culture des tissus de carotte et de Topinmbour même à l'état de lames réduites a uni assise de cellules. C.R. Acad. Sci. Paris, 214:805-807.

Gautheret, R.J. (1939). Sur, la possibilité de réaliser la culture indéfinie des tissus de tubercules de carotte. C.R. Acad. Sci. Paris, 208:118-120.

Gautheret, R.J. (1945). Une voie nouvelle en biologie Végetalé. La culture des tissues. Gallimard. Paris.

Gautheret, R.J. (1959). "La culture des tissus Végétaux, techniques et realisations" Masson, Paris.

Gautheret, R.J. (1959). "La culture des tissus végétaux, techniques et realizations" Masson, Paris.

*Giri, K.V., Radhakrishnan, A.N. and Vidyanadhan, C.S. (1953). J. Indian Inst. Sci. 35:145.

Givan, C.V. and Collin, H.A. (1967). Studies on the growth in culture of plant cells. II. Changes in respiration rate and nitrogen associated with, the growth of Acer pseudoplatanus L. cells in suspension culture. J. Exptl. Bot. 18:321-331.

* Filner, P. (1965). Studies on exponential cultures of plant cells. Ph.D Thesis. California Institute of Technology.

Godgil, V.N. and Roy, S.K. (1961). Studies on Crown gall tumour. IV. Influence of hydrogen ion concentration and accessory growth factors on the growth of Hollyhock (Althaea-rosea) crown gall tumour tissue and utilization of different carbon and nitrogen sources by the tissue. Trans. Bose-Res. Inst. 24: 163-173.

Hageman, R.H., Cresswell, C.F. and Hewitt, E.J. (1962). Reduction of nitrate, nitrite and hydroxylamine to ammonia by enzymes extracted from higher plants. Nature 193:247.

Hannay, J.W. Fletcher, B.H. and Street, H.E. (1959). Studies on the growth of excised roots. IX. The effects of other nutrient ions upon the growth of excised tomato roots supplied with various nitrogen sources. New. Phytol. 58:142-154.

Harris, G.P. (1956). Amino acids as sources of nitrogen for the growth of isolated oat embryos. New. Phytol. 58:330.

Heller, R. (1953). Recherches sur la nutrition minerales des tissus végétaux cultivés in vitro. Ann. Sci. Nat. Bot. Biol. Veg. 14:1-223.

Heller, R. (1954). Les besoins mineraux des tissus en culture. Année biol. 30: 261-281.

Henshaw, G.G., Jha, K.K., Mehta, A.R., Joan Shakeshaft, D. and Street, H.E. (1966). Studies on the growth in culture of plant cells. I. Growth patterns in batch propagated suspension cultures. J. Exptl. Bot. 17:362-377.

Henderson, J.H.M., Durrell, M.E. and Bonner, J. (1952). The culture of normal sunflower callus. Amer. J. Bot. 39:467-473.

*Henderson, J.H.M. (1954). The changing nutritional pattern from normal to habituated sunflower callus tissue in vitro. Année biol. 30:329-348.

Huberlandt, G. (1902). Kulturversuche nut isolierten Pflanzenzellen. Sitz-Ber Akda. Wiss. Wien, Math. Naturw. Ke. Abt. III:69:92.

Hageman, R.H. and Flesher, D. (1960). Nitrate reductase activity in corn seedlings as affected by light and nitrate content of nutrient media. Plant Physiol. 35 :700-708.

Hansen, A.J. and Hilderbrandt, A.C. (1966). The distribution of tobacco mosaic virus in plant callus cultures. Virology, 28:15-21.

Hewitt, E.J. and Afridi, M.M.R.K. (1959). Adaptive synthesis of nitrate reductase in higher plants. Nature. 183:57-58.

Hilderbrandt, A.C. and Riker, A.J. (1949). The influence of various carbon compounds on the growth of marogold, Paris-daisy, Periwinkle, sunflower and tobacco tissue in vitro. Amer. J. Bot. 36: 74-85.

Hilderbrandt, A.C. and Riker, A.J. (1953). Influence of concentrations of sugars and polysaccharides on callus tissue growth in vitro. Amer. J. Bot. 40:66-76.

Hilderbrandt, A.C. (1963). Growth of single cell clones of diseased and normal tissue origins. In " Plant tissue culture and morphogenesis" (J.C.O. Kelley ed.). Scholar Library, New York.

Holsten, R.D., Sugii, M. and Steward, F.C. (1965). Direct and indirect effects of radiation on plant cells: Their relation to growth and growth induction. Nature, 208:850-856;

Jablonski, J.R. and Skoog, F. (1954). Cell enlargement and cell division in excised tobacco pith tissue. Physiol. Plantarum. 7:16-24.

Johansen, D.A. (1940). Plant microtechnique. McGraw-Hill Book Co. Inc., New York.

*Karmon, A., Wroblewski, F., and Ladue, J.S. (1955). J. Clin. Invest. 34:126.

Kaul, B. and Staba, E.J. (1965). Vippagin: Biosynthesis and Isolation from Ammi visnga suspension cultures. Science, 150:1731-1732.

Khanna, P. and Staba, E.J. (1970). In vitro physiology and morphogenesis of Cheiranthus cheiri var. Clott of gold and C. cheiri var. goliath. Bot. Gaz. 131:1-15.

Klein, R.M. (1967). Influence of ultra violet radiation on auxin controlled plant growth. Amer. J. Bot. 54:904-914.

Lalchandani, I.G. (1970). Studies on the growth in culture of plant cells. Ph.D. Thesis, M.S. University of Baroda, Baroda.

Lamport, D.T.A. (1964). Cell suspension cultures of higher plants. Isolation and growth Energetics, Exp. Cell. Res. 33:195-206.

*La Motte, C.E. and Skoog, F. (1960). Plant Physiol. 35 XIX.

Loustalot, A.J., Morris, M.P., Garcia, J. and Pagan, C. (1953). 2,4-D affects phosphrous metabolism. Science, 118:627-628.

Lowry, D.H., Rose-brought, N.J., Farr, A.I. and Randall, R.J. (1951). Protein measurement with Folin Phenol Reagent. J. Biol. Chem. 193:265-275.

Mathes, M.C. (1963). Antimicrobial substances from Aspen tissue grown in vitro. Science, 140: 1101-1102.

Mazia, D. (1961). Mitosis and Physiology of cell division. In "The Cell"(J. Brachet and A.E. Mirsky eds.). Academic Press, New York.

Mehta, A.R. and Staba, E.J. (1970). Presence of Diosgenin in Tissue cultures of Dioscorea composita Hemsl. and related species. J. Pharm. Sci. 59:864-865.

Mehta, A.R., Henshaw, G.G. and Street, H.E. (1967). Aspects of growth in suspension cultures of Phaseolus vulgaris L. and Linum usitatissimum L. Ind. J. Plant. Physiol. 10:44-53.

Mehta, A.R. (1966a). In vitro initiation and growth of root callus of Phaseolus vulgaris L. Indian J. Exp. Biol. 4:187-188.

Mendel, J.L. and Visser, D.W. (1951). Studies on nitrate reduction in higher plants. Arch. Biochem. Biophys. 32:158-169.

Miller, C.O. (1961). Kinetin and related compounds in plant growth. Ann. Rev. Plant Physiol. 12:395-408.

Morgan, D.R. and Street, H.E. (1959). The carbohydrate nutrition of tomato roots. VII. Sugars, sugar phosphates and sugar alcohols as respiratory substrates for excised roots. Ann. Bot. 23:89.

Morris, I. and Syrett, P.J. (1964). The development of nitrate reductase in chlorella and its repression by ammonia. Arch. Microbil. 47:32-38.

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

*Nakashima, H. (1964). Pl. Cell. Physiol. 5:217-225.

Nason, A. and Evans, H.J. (1953). Triphosphopyridine nucleotide-nitrate reductase in Neurospora. J. Biol. Chem. 202:655.

Nason, A. and Evans, H.J. (1955). In "Methods in Enzymology" (S.P.Colowick and N.O.Kaplan, eds.) Academic Press, 2:411.

Nelson, J.M. (1954). A Photometric adaptation of the Somogyi method for the determination of glucose. J. Biol. Chem. 153:375-380.

Nickell, L.G. and Burkholder, P.R. (1950). A typical growth of Plants. II. Growth in vitro of virus tumors of Rumex in relation to temperature, pH and various sources of nitrogen, carbon and sulphur. Amer. J. Bot.37:538-547.

Nitsch, J.P. and Nitsch, C. (1957). Auxin dependent growth of excised Helianthus tuberosus tissues. II. Organic nitrogenous substances. Amer. J. Bot. 44:555-564.

Nobécourt, P. (1939). Sur les radicelles naissant des cultures de tissus du tubercule de carotte. C.R.Soc. Biol. Paris, 130:1270-1271.

Norstog, K. and Smith, J.E. (1963). Culture of small barley embryos on defined media. Science, 142:1655-1656.

*Oslen, K.E. (1960). The effect of 2,4-D on Phosphatase in primary roots of Zea mays and Vigna sinensis seedlings. Doct. Thesis. Univ. of California Davis. California.

Paris, D. and Duhamet, L. (1958). Sur un cas de sensibilité des tissus de Crown-gall de scorsonère à lácide indole-acétique. C.R. Acad. Sci. Paris, 246:2023-2026.

Raghawan, V. and Torrey, J.G. (1964). Inorganic nitrogen nutrition of the seedlings of the orchid, cattleya. Amer. J. Bot. 51:264-274.

Rao, N.M. and Mehta, A.R. (1968). In vitro growth and nutrition of Datura anther callus. Ind. J. Plant Physiol. 11:181-187.

Reinert, J. and White, P.R. (1956). The cultivation *in vitro* of tumor tissues and normal tissues of *Picea gluca*. Physiol. Plantarum, 9:177-189.

Rijven, A.H.G.C. (1958). Effect of some inorganic nitrogenous substances on growth and nitrogen assimilation of young plant embryos *in vitro*. Austral. J. Biol. Sci. 11:142.

Rijven, A.H.G.C. (1952). *In vitro* studies on the embryo of *Capsulla bursa-pastoris*. Acta. bot. ncerl. 1:157-200.

Riker, A.J. and Gutsche, A.E. (1948). The growth of sunflower tissue *in vitro* on synthetic media with various organic and inorganic sources of nitrogen. Amer. J. Bot. 35:229-238.

Sanderson, G.W. and Cocking, E.C. (1964). Enzymic assimilation of Nitrate in tomato plants. I. Reduction of nitrate to nitrite. Plant Physiol. 39:416-430.

Sanders, M.E. and Burkholder, P.R. (1948). Influence of amino acids on growth of *Datura* embryos in culture. Proc. Nat. Acad. Aci. 34 :516.

Shantz, E.M. and Steward, F.C. (1959). Investigations on growth and metabolism of plant cells. VII. Sources of nitrogen for tissue cultures under optimal conditions for their growth. Ann. Bot. 23:371-390.

Shantz, E.M. and Steward, F.C. (1959). Investigations on growth and metabolism of plant cells. VII. Sources of nitrogen for tissue cultures under optimal conditions for their growth. Ann. Bot. 23:371-390.

*Shigemura, Y. (1958). The nutritional and auxin requirements for the growth of Pea root callus tissue. Ph.D. Thesis, University of California, Berkeley.

Shinowara, G.Y., Jones, L.N. and Reinhart, H.L. (1942). Estimation of serum inorganic phosphate and acid and alkaline phosphatase activity. J. Biol. Chem. 142:921-933.

Simpkins, I., Collin, H.A. and Street, H. (1970). The growth of Acer pseudoplatanus cells in a synthetic liquid medium: Response to the carbohydrate, Nitrogenous and Growth Hormone Constituents. Physiol. Plantarum, 23:385-396.

Skoog, F. and Miller, C.O.(1957). Chemical Regulation of Growth and Organ Formation in plant tissues cultured in vitro. Symposia of the Society for Expt. Biol. No.11.

Staba, E.J. (1962). Production of cardiac glycosides by plant tissue cultures. I. Nutritional requirements in tissue cultures of Digitalis lanata and Digitalis purpurea. J. Pharm. Sci. 51:249-254.

Staba, E.J. and Jindra, A. (1968). Datura tissue cultures: Production of minor alkaloids from Chlorophyllous and non-chlorophyllous strains. J. Pharm. Sci. 57:701-704.

*Staba, E.J. (1969). Plant tissue culture as a technique for the Phytochemist. In "Phytochemical Society of North America-1967 Symposium. Appleton-Century Crofts, New York.

Steinhart, C., Anderson, L. and Skoog, F. (1962). Growth promoting effect of cyclitols on spruce tissue cultures. Plant Physiol. 37: 60-66.

Stern, H. and Hotta, Y. (1963). Facts of intracellular regulation of meiosis and mitosis. In "Cell Growth and Cell Division" (J.R.C. Harris ed.) Academic Press, New York.

Steward, F.C. Bidwell, R.G.S. and Yemm, E.W. (1958). Nitrogen metabolism, respiraton and growth of cultured plant tissue. J. Exptl. Bot. 9: 11.

Steward, F.C. and Caplin, S.M. (1951). A tissue culture from potato tuber, the synergistic action of 2,4-D and coconut milk. Science. 113:518.

Steward, F.C. (1969). "Plant physiology" (F.C. Steward d.). Allied Press, N.Y.

Steward, F.C., Holsten, R.D. and Sugii, N. (1967). Direct and indirect effects of radiation; the radiolysis of sugar. Nature, 213:178.

Steward. F.C. and Caplin, S.M. (1954). The growth of carrot tissue explants and its relation to the growth factors present in coconut milk. I (A) The development of quantitative method and factors affecting the growth of carrot tissue explants. Ann. Biol. 30:386-394.

Steward, F.C. and Shantz, E.M. (1954). The growth of carrot tissue explants and its relation to the growth factors in the coconut milk II. Growth promoting properties of coconut milk for plant tissue cultures. Année biol. 30:399-415.

Steward, F.C. and Shantz, E.M. (1955). The Chemical induction of growth in plant tissue cultures. In "The Chemistry and Mode of Action of plant growth substances" (R.L. Wain and F. Wightman, eds.). Butterworth, London.

Steward, F.C., Bidwell, R.G.S. and Yemm, E.W. (1958). Nitrogen metabolism, respiration and growth of cultured plant tissue. J. Exptl. Bot. 9:11.

Steward, F.C. and Pollard, J.K. (1959). Protein synthesis in higher plants. Concepts derived from the study of growing cells in tissue cultures. Biochem. of morphogenesis. Pro. IX. International Biochem. Congr. 6:193-206.

Straus, J. and LaRue, C.D. (1954). Maize endosperm tissue grown in vitro. I. Culture requirements. Amer. J. Bot. 41:687-694.

Street, H.E. (1955). Metabolism of nitrogen in plants. Nature, 176:906-908.

Street, H.E. (1966). The nutrition and metabolism of plant tissue and organ cultures. In "Cells and tissues in Culture" (E.N. Willmer ed.) Academic Press, London.

Street, H.E., Carter, J.E., Scott, E.G. and Sutton, D. (1961). Studies of the growth in culture of excised wheat roots. I. The growth effects of an acid hydrolysed casein and of light. Physiol. Plantarum, 14:621-631.

Street, H.E. and Henshaw, G.G. (1963). Cell division and differentiation in suspension cultures of higher plant cells. Symp. Soc. Exptl. Biol. 17:234-256.

Street, H.E. and Henshaw, G.G. (1966). Introduction and methods employed in plant tissue culture. In "Cells and Tissues in Culture" (E.N.Willner, ed.). Academic Press, London, New York.

Street, H.E. and Henshaw, G.G. (1966). Introduction and Methods employed in plant tissue culture. In "Cells and Tissues in Culture" (E.N.Willmer, ed.). Academic Press, London, New York.

Switzer, C.M. (1957). Effects of herbicides and related Chemicals on Oxidation and phosphorylation by isolated soybean mitochondria. Plant Physiol. 32:42-44.

Syono, Kunihiko and Tsutomu Furuya (1968). Studies on plant tissue cultures. 1. Relationship between inocula sizes and growth of calluses in liquid culture. Plant cell Physiol. 9:103-114.

Tamaoki, T. and Ullstrup, A.J. (1958). Cultivation *in vitro* of excised endosperm and meristem tissue of corn. Bull. Torrey. Bot. Club, 85:260-272.

Tang, P. and Wu, H. (1957). Adaptive formation of nitrate reductase in rice seedlings. Nature. 179:1355-1356.

Thomas, E. and Street, H.E. (1970). Organogenesis in cell suspension cultures of *Atropa belladonna* L. and *Atropa belladonna* Cultivar lutea Doll. Ann. Bot. 34:657-669.

Tiwari, M.M. (1968). Studies on the epidemiology and host parasite relationship of *Selerospora graminicola* (Sacc) Schroct. On Bajra *Pennisetum typhoides* Stapf and Hubb. Ph.D. Thesis, University of Rajastan, Jaipur.

Tiwari, M.M. and Arya, H.C. (1967). Growth of normal and diseased Pennisetum typhoides tissues infected with Sclerospora graminicola in tissue culture. Indian Phytopath. 20:356-368.

Torrey, J.G., Reinert, J. and Merkel, N. (1962). Mitosis in suspension cultures of higher plant cells in a synthetic media. Amer. J. Bot. 49:420-424.

Torrey, J.G. and Shigemura, Y. (1957). Growth and controlled morphogenesis in pea root callus tissue grown in liquid media. Amer. J. Bot. 44: 334-344.

Turian, G. (1956). Stimulation by hetero-auxin of acid phosphatase activity of the extracts of potato and maize. Biochem. Biophys. Acta. 21:388-389.

Vajranabhaiah, S.N. (1969). The changes in nucleic acids in relation to auxin, kinetin and sugar during growth in cultures of Cucumis melo L. and Datura metel L. Ph. D. thesis, M.S.University, Baroda.

Van Overbeek, J. (1952). Agricultural application of growth regulators and their physiological basis. Ann. Rev. Pl. Physiol. 3:87-108.

Vasil, I.K. and Hildebrandt, A.C. (1966). Growth and Chlorophyll production in plant callus tissues grown in vitro. Planta. 68:69-82.

*Waris, H. (1959). Physiol. Plant. 12:753-766.

White, P.R. (1934). Potentially unlimited growth of excised tomato root tips and liquid medium. Plant Physiol. 9:585-600.

White, P.R. (1939). Potentially unlimited growth of excised plant callus in an artificial nutrient. Amer. J. Bot. 26:59-64.

White, P.R. (1943). Further evidence on the significance of glycine, pyridoxine and nicotinic acid in the nutrition of excised tomato roots. Amer. J. Bot. 30:33-36.

White, P.R. (1954). "The cultivation of Animal and Plant Cells". Thames and Hudson, London.

Witham, F.H. (1968). Effect of 2,4-dichlorophenoxyacetic acid on the cytokinine requirements of soybean cotyledon and tobacco stem pith callus tissue. Plant Physiol. 43;1455-1457.

Wu, J.H., Hildebrandt, A.C. and Riker, A.J. (1960). Virus-host relationship in Plant tissue culture. Phytopathology, 50:587-594.

Yemm, E.W. and Willis, A.J. (1956). The respiration of barley plants. IX. The metabolism of roots during the assimilation of nitrogen. New Phytologist, 55:229-252.

*Zieserl, J.F. and Hageman, R.H. (1962). Crop Sci. 2:512-515.

---

*Not referred to original.