

BIBLIOGRAPHY

- Aberg, B. (1958). Ascorbic acid. Encyclop. Pl. Physiol.; 6 : 479-95. Ed, : W. Ruhland Springer - Verlag, Berlin.
- Abdou, F.M.; Kobbia, El. H. and Nennah, M. El. (1975). Effect of seed pretreatment on phosphorus uptake by alfa-alfa. Plant and Soil; 40(2) : 243-248.
- Abraham, P.G., Dave, I.G., Pandya, R.B. and Saxena, O.P. (1968) A study of the rate of respiration and ascorbic acid metabolism during flowering and senescence of wheat. Proc. 37th Session Nat. Acad. Sci., pp. 48.
- Adams, P.A. (1969). Studies on Gibberellic Acid - Induced Growth in *Avena* Stem segments. Ph.D. Dissertation University of Michigan, Ann. Arbor.
- Aftab Hussain, I.S., Rama Rao, S. and Prasad, T.G. (1993). Influence of zinc on the ribonuclease activity in frech beans (*Phaseolus vulgaris*) Indian J. Plant Physiol., 36 : 71-72.
- Agakishiev, D. and Nikitina, Z.N. (1972). Chlorocholine chloride effect on cotton seed germination and other physiological processes in cotton. IZV. Akad. Nauk. Turkm. SSR Ser. Biol. Nauk., 5. 24-28.
- *Agarwala, S.C. and Kumar, A. (1962). J. Indian Botani Soc., 41, 77-92.

- Alexander, A.G. (1963). Sugarcane Physiology. Elsevier Scientific Publising Comp., Amsterdam. pp. 397-485.
- Alexander, A.G. (1965) Changes in leaf sugar content and enzyme activity of immature sugarcane following foliar application of indole-3-acetic acid, 2,4-dichlorophenoxyacetic acid and maleic hydrazide. J. Agri. Univ. P.R., 49(1). 1-34.
- Alexander, A.G. (1967). Evaluation of sugar enzyme relationship among twelve Puerto Rico sugarcane varieties. J. Agric. Univ. P.R. 51(1) : 29-38.
- Alexander, A.G. (1968-a). Interrelationship of gibberllic acid and nitrate in sugar production and enzyme activity of sugarcane, J. Agric. Univ. P.R., 52(1) : 19-28.
- Alexander, A.G. (1968-b). Growth, enzyme and super responses of immature sugarcane to foliar treatment with bozauracil and gibberllic acid. J. AGR UNIV. P.R., 52(4) : 295-310.
- Alexander, A.G. & Montalvo Zapata R. (1971). Chemical desiccation of sugarcane. Internatl. Sugar J., 73 : 261
- Appleby, A.P.; Kronstad, W.E. and Rohde, C.D. (1966). Influence of 2-chloroethyl ammonium chloride (CCC) on wheat (*Triticum aestivum* L.) when applied on a seed treatment. Agron J., 58 : 435-437.

- Arnon, D.I. (1949). Copper enzymes in isolated chloroplast
Polyphenol oxidase in *Beta Vulgaris*. Plant
Physiol., 24 : 1-15.
- Arnon, D.I.; Allen, M.B. and Whatley, F.R. (1956). Photosyn-
thesis by isolated chloroplasts IV. General
concept and comparison of three photochemical
reactions. Biochem. Biophys. Acta., 20 : 449-461.
- Arnon, D.I.; Whatley, F.R. and Allen, M.B. (1954). Photosyn-
thesis by isolated chloroplasts II. Photosynthetic
phosphorylation, the conversion of light into
phosphate bound energy. J. Am. Chem. Soc., 76 :
6324-6329.
- Arnon, D.I.; Whatley, F.R. and Allen, M.B. (1957). Triphospho-
pyridine nucleotide as a catalyst of photosynthe-
tic phosphorylation. Nature, 180 : 182-185.
- Arora, S.K. and Dhankhar, B.S. (1992). Effect of seed
soaking and foliar spray of cycocel in
germination, growth, flowering, fruit set and
yield of okra (*Abelmoschus esculentus* L. Moench.)
Veg. Sci., 19(1) : 79-85.
- Asada, K. (1992). Production and scavenging of active oxygen
in chloroplasts. In : Scandalics J.C. (ed.)
Molecular Biology of Free Radical Scavenging
Systems, p.173. Cold spring Harbar Laboratory
Press, New York.

- Ashkhababyan, S.A. (1968). C.F. Cobalt in Biology and Biochemistry by Young. Roland, S. pp.50-69. Academic Press, London. A subsidiary of Harcourt Brace Jovanovich, Publishers.
- Asmaeva, A.P. and Avundzhyan, E.S. (1973). Effect of watering with chlorochloine chloride solution on sugar content in wheat sprouts. DOKL. VSES (ORDENA LENINA) AKAD. S-KH NAUK IM VI LENINA., 11 : 15,16.
- *Asmus, F. (1961). Dt Landwirt No.2, 72-4; (1961). C.A. 55, 20288.
- Asthana, J.S. and Srivastava, H.S. (1977). Effect of presowing treatment of maize seeds with ascorbic acid and salicylic acid on seed germination, seedling growth and nitrate assimilation in the seedling. Indian J. Plant Physiol., 21 : 150-155.
- Austin, R.B.; Ford, M.A. and Blackwell, R.D. (1978). Relationship between nitrate reductase activity. Plant weight and nitrogen content in seedlings of *Triticum*, *Aegilops* and *Triticale*. Ann. Bot., 42 : 429-438.
- Ayres, A.S. (1936). Factors influencing the mineral composition of sugarcane. Repts. Assoc. Hawaiian Sugar Tech., 15 : 29-41.
- Ayres, A.S. (1937). Absorption of mineral nutrients by sugarcane at successive stages of growth. Hawaiian Planters Record, 41 : 335-351.

- Ayres, A.D. (1952). Seed germination as affected by soil moisture and salinity. Agron J., 44 : 82-84.
- Baldry, C.W.; Bucke, C.W.; Coombs, J. and Gross, D. (1970). Phenols phenol oxidase and photosynthetic activity of chloroplasts isolated from sugarcane and spinach plants. Encyclopedia of pathological physiology, 94 : 107-113.
- Bar-Akiva, A. (1971). Functional aspects of mineral nutrients in use for the evaluation of plant nutrition requirement. In "Recent Advances in Plant Nutrition" Ed. Samish, R.M. Gordon and Gotch, New York, pp. 115-139.
- Basiounty, F.M. and Biggs, R.H. (1976). Rates of photosynthesis and the Hill reaction in citrus seedlings affected by Fe, Mn and Zn nutrition. J. Amer. Soc. Hort. Sci., 101 : 193-196.
- Bates, J.F., (1957). Preliminary experiments on the effect of gibberellic acid on germination, growth and flowering of sugarcane, Proc. Br. W. Indies Sugar Technol., (1957) : 165-173.
- Baylay, S.T. and Kushner, D.J. (1964). The ribosomes of the extremely halophilic bacterium, *Halobacterium cutirubrum*. J. Mole. Biol., 9 : 654-669.

- Beauchamp, C.E. (1949). Effect of 2,4-D on sugar content of sugarcane, Proc. Cuba Sugarcane Technol. Assoc., 23 : 55-87.
- Bendigeri, A.V.; Hapse, D.G.; Shaikh, A.A. and Tiwari, U.S. (1986). Efficacy of different growth regulators and hormones on sugarcane cultivars. D.S.T.A. 36th Convention part-I : 290-296.
- *Berenznitskaya, N.I. and Levenets, P.P. (1966). Trudy Khar'kov Sel'-Khoz Inst., 49 : 186-90 (1968) C.A. 68 : 68063.
- Berridge, M.V. and Ralph, R.K. (1971). Kinetin and carbohydrate metabolism in chinese cabbage. Plant Physiol., 47 : 562-567.
- Bhadre, S.K. (1983). Physiological studies in cotton plant. Ph.D. thesis submitted to the Shivaji University, Kolhapur (India).
- Bharadwaj, S.N. and Rao, I.M. (1955). Studies on the effect of chloride and sulphate of sodium on germination, growth and maturity of gram. Agra. Univ. J. Res. Sci., 4 : 767-775.
- Bhandari, M.C. and Sen, D.N. (1975). Effect of growth retardants on seedling growth excised cotyledons chlorophylls, proteins and sugar content in *Citrus* species. Biochem. Physiol. Pflanz(BPP), 167 : 135-140.

- Bhiravmurty, P.V. and Prasad, D.S.N. (1979). Chlorophyll stability index in certain upland rice varieties. Geobias., 6 : 144.
- Bischoff, K.P. (1967). The responses of *Saccharum* species to growth regulators. Sugar Y. Azucar., 82(6) : pp.27.
- Bischoff, K.P. and Martin, F.A. (1988). The effect of plant growth regulators on the tillering of basic clones of '4' species of *Saccharum*. J. Amer. Soc. Sugarcane Technol., 8 : 23-31.
- Bisaria, A.K. and Paliwal, N.K. (1982). Effect of ethephon on seed germination, seedling growth and sugars in triticale. Acta. Bot. Indica, 9(1) : 148-150.
- Biswas, P.K. (1965). Effect of growth regulators on the caffeic and tannin content of tea, *Camellina sinensis*. Proceed. Amer Soc. Hort. Sci., 86 : 750-752.
- Boarden, R.J. (1944). The early development and rate of nutrient uptake by sugarcane. Hawaiian Planter's Record, 48 : 43-47.
- Boardman, N.K. (1975). Trace elements in photosynthesis. In : Trace elements in soil-plant animal system. Nicholas, Ed.Egan,D.J.P. and Egan, A.R., Academic Press, p. 199-212.
- *Bohme, H. and Trebst, A. (1969). Biochem. Biophys. Acta., 180 : 137.

- Bonner, J. (1950). Plant Biochemistry, Academic Press, New York.
- Borris, H. (1967). Untersuchungen über steuerung der enzymaktivität in pflanzlichen embryonen durch cytokinine. Wiss Z. Univ. Rostock. Math. Naturwiss., 16 : 629-639.
- *Bozhenko, V.P. (1968). Fiziol Rast., 15, 116-22 (1968). C.A. 68, 94925.
- Bozhenko, V.P. and Shkol'nik, M.Ya. (1963). Vodn. Rezhim Rast V.Svyazs Obmenon Veshchestv i Produktivnost'yu Akad. Nauk S.S.S.R. Inst. Fiziol. Rast, 275-83, (1964). C.A. 60, 12619.
- *Bozhenko, V.P.; Nazavenko, A.M. and Momot, T.S. (1963). Mikroelementy v Sel'Khoz i Med. Sb. 168-72; (1965). C.A. 62 , 9732.
- Brian, P.N.; Elson, G.W.; Heming, H.G. and Radley, M. (1954). The plant growth promoting properties of gibberillic acid, a metabolic product of fungus. Gibberella fujikuroi. J.Sci.Food.Agr., 5 : 602-612.
- Brill, A.S. (1966). Peroxidases and catalase in : Comprehensive Biochemistry 14 : 417-479. (ed.M. Florkin). Elsevier Publ. Company, Amsterdam.
- Bull, T.A. (1964). The effect of temperature, variety and age on the response of *Saccharum* spp. to applied gibberillic acid, Aust. J. Agric. Res., 15 : 77-84.

- Buren, L.L.; Moore, P.H. and Yamasaki, Y. (1980). Gibberellin studies with sugarcane : Hand sampled field trials. Crop Sci., (In Press).
- Burke, G.D.; Watkins, K. and Scott, B.J. (1990). Manganese toxicity effects on visible symptoms, yield, manganese level and organic acid levels in tolerant and sensitive wheat cultivars. Crop Science, 30(2) : 275-280.
- Burr, G.O. (1955). Plant analysis as index of nutrient availability. Hawaiian Planter's Record, 55 : 113-128.
- Cakmak, I. and Marschner, H. (1988). Enhanced superoxide radical production in roots of Zn deficient plants. J. Exp. Bot., 39 : 1449-1460.
- Cakmak, I. and Marschner, H. (1990). Decrease in nitrate uptake and increase of proton release in zinc deficient cotton, sunflower and buckwheat plants. Plant and Soil, 129 : 261-268.
- Castro, P.R.C., Dionisio, A. Joao J. Martmelli, C. and Demetrio, C.G.B. (1982). Increase in sugarcane production with gibberellic acid, Brazil Acuc., 99 : 173-180.
- *Castro, P.R.C., Sanguina, A.; Akiba, S.; Sudo, S. and Masuda, Y. (1975). Brasil Acue, 85 : 350-358.

- Cathey, H.M. (1964). Physiology of growth retarding chemicals. Annu. Rev. Plant Physiol., 15 : 271-302.
- Causton, D.R. and Venus, J.C. (1981). The biometry of plant growth. Edward Arnold (Publ.) Ltd., London.
- Chacrvarti, A.S.; Srivastava, D.P. and Khanna, K.L. (1955). Foliar application of 2,4-D to increase sugar in cane, Sugar J., 18(6) : 23-25.
- Chardon, C.E. (1956). Gibberllic acid, a new plant growth promoting substance, Proc. P.R. Sugar Technol. Assoc., (1956).
- Charles, E.D.A. (1982). Physiological determinant of crop growth. Academic Press, Australia.
- Chakravorty, M. and Burma, D.P. (1959). Enzymes of the pentose phosphate pathway in the mungbean seed lings. Biochem. J., 73 : 48-53.
- Chang, C.W. and Ryan, R.D. (1987). Effect of water stress on starch and sucrose metabolism in cotton leaves. Staerke, 39 : 84-87.
- Chavan, P.D. (1978). Effect of pretreatment of growth promoters on growth and metabolism of ragi. (*Eleusine coracona* Gaertn.). Proc. 'National Symposium on Recent Advances in Plant Physiology in India', organised by ISPP, pp.40, Ahmedabad, India.
- Chavan, S.R. (1987). Physiological studies in nitrogen metabolism of groundnut (*Arachis hypogea* L.)

- M.Phil. thesis submitted to Shivaji University, Kolhapur (India).
- Chatterji, V.N.; Harish, G.D.; Sankhla, D. and Sankhala, N. (1971). Lettuce seed germination : Interaction between inhibitors and ethrel. Biochem. Physiol. Pflanz. (BPP), 162(6) : 572-574.
- Chhabra, M.L.; Pahwa, S.K. and Yadava, T.P. (1980). Chlorophyll stability index in some varieties of Raya (*Brassica juncea* (L.) Czern and Coss). Geobias, 7 : 283-284.
- Chhipa, B.R. and Pal. P. (1988). Effect of presowing seed treatment in wheat grown on sodic soils. Indian J. Plant Physiol., 31(2) : 183-185.
- Cheniae, G.M. and Martin, I.F. (1968). Sites of manganese function in photosynthesis. Biochem. Biophys. Acta, 153 : 819-837.
- Chinoy, J.J. (1967). Role of ascorbic acid in crop production. Poona Agric. Coll. Mag., 57 : 1-6.
- Chinoy, J.J. (1969). A new concept of flowering on the basis of molecular and submolecular events occouring in the shoot apex and leaf of wheat. Indian J. Plant Physiol., 12 : 67-80.
- Chinoy, N.J. (1978). Role of ascorbic acid in growth, differentiation and metabolism of plants. 1984 Martinus Nijhoff/Dr.W. Junk Publishers.

- Chinoy, N.J. (1984). The role of Ascorbic acid in growth differentiation and metabolism of plants. Martinus Nijhoff Dr./W.Junk Publishers, pp.281.
- Chinoy, J.J. and co-workers (1969). A PL-480. Project Report submitted to Gujarath University, Ahmedabad, India.
- Chiranjivi, Rao, K; Krishnamurthi, T.N.; Lalitha, E. and Rajlaxmi, V.K. (1968). Phenols in relation to resistance of sugarcane varieties to red rot disease. Curr. Sci., 37(8) : 532-534.
- Chinoy, J.J. and co-workers (1984). The role of Ascorbic acid in growth, differentiation and metabolism in plants. (eds. N.J. Chinoy), Martinus Nijhoff/Dr./W. Junk Publishers.
- Chinoy, J.J. and Saxena, O.P. (1971). Inductive effect of ascorbic acid on RNA, amylase, protease and RNAase (16 Internl. Seed Testing Congr., Washington, June 1971).
- Chinoy, J.J. and Saxena, O.P. (1972). Inductive effect of ascorbic acid on RNA, amylase, protease and RNAase Proc. Int. Seed. Test. Ass., 37 : 903-910.
- Chow, W.S.; Ball, M.C. and Anderson, J.M. (1990). Growth and photosynthetic response of Spinach to salinity : Implication of K^+ nutrition for salt tolerance. Aust. J. Plant Physiol., 17 : 563-578.

- Clark, R.B. (1984). Physiological aspect of calcium, mangesium and molybdenum deficiencies in plant. Agronomy Monograph (2nd edition) Madison, U.S.A. pp. 99-168.
- Clarkson, D.T. and Hanson, J.B. (1980). The mineral nutrition of higher plants. Ann. Rev. Plant Physiol., 31. 239-298.
- Clements, H.F. (1948). Crop logging sugarcane in Hawaii. Better crops with plant food, 32: 11-18:45-48.
- Clements, H.F., Martin, J.P. and Moriguchis. (1941). Composition of sugarcane plants grown in deficient nutrient solutions. Hawaiian Planters Record, 45. 227-239.
- Clements, H.F. and Moriguchi, S. (1942). Nitrogen and sugarcane. The nitrogen index and certain quantitative aspects. Hawaiian Planter's Record., 46. 163-190.
- Clements, H.F., Shigeure and Isobe, M. (1947). Potassium and sugarcane. Biennial Rept. 1944-1946. Agr. Expt. Sta., Hawaii, 108-111.
- Clemetsen, C.A.B., and Anderson, L. (1966). Ann N.Y. Acad. Sci. C.F. Chinoy, N.J. (1978). Polyphenols in role of ascorbic acid in growth, differentiation and metabolism of plants. 1984 Martinus Nijhoff/Dr. W. Jank Publishers. The Hauge pp. 277-283.

- Cobas, D.B. and Gonzalez, M. (1981). Effect of Gibberllic acid on acid invertase of sugarcane. Cinec. Agric., 11. 126-126.
- Coleman, R.E., and Herbert, L.P. (1957). Effect of certain defoliant and growth regulators upon sugarcane, Sugar Bull., 35(24). 389-391.
- Coleman, R.E., Todd, E.H.; Stokes, I.E. and Coleman O.H. (1960). Some responses of sugarcane to gibberllic acid, Sugar J., 23. 11-21.
- Coleman, R.E.; Todd, E.H. Stokes, I.E. and Coleman, O.H. (1969). The effect of gibberllic acid on sugarcane, Proc. Int. Soc. Sugarcane Technol., 11. 533-540.
- Coleti, J.T., Lorenzetti, J.M., Garla, J.H. and Camponez, A. (1986). The inhibition of flowering by ethephon and its influence on sugarcane quality in Brasil. Proc. Internatl. Soc. Sugarcane Technol., 19(1). 258.
- Cowan, I.R. and Milthrope, F.L. (1968). Plant factors influencing the water status of leaf tissue. In "Water deficit and Plant Growth". (Ed.) T.T. Kozlowski. Vol. I. pp. 137-197. Academic press. New york.
- Daniels, R.R., Stuckmeyer, B.E. and Peterson, L.A. (1972). Copper toxicity in *Phaseolus vulgaris* L. as

- influenced by iron nutrition. I. An anatomical study. J. Amer. Soc. Hort. Sci., 9. 249-254.
- Dank, M.L., Fletcher, J.S. and Rice, E.L. (1975). Effect of phenolic inhibitors on growth and metabolism of glucose UL -¹⁴C in Paul's scarlet rose cell suspension cultures. Am. J. Bot., 62. 311-317.
- Darra, B.L. and Saxena, S.N. (1973). Role of IAA on the mineral composition of maize (*Zea mays*) crop under various osmotic stressed conditions. Plant Soil, 38. 657-661.
- Datta and Datta Biswas (1951). In : "Cobalt in Biology and Biochemistry". (Roland S. Young) London, Academic Press.
- Dave, I.C. and Gaur; B.K. (1970). Effect of presowing treatment with gibberellic acid and L. ascorbic acid on growth development of barley. Indian J. Plant. Physiol., 13.: 76-85.
- Dawson, M.J. (1965). Effect of seed soaking on the growth and development of crop plants. I. finger millet (*Eleusine coracana* Gaertn.) Indian. J. Plant Physiol., 8. 52-56.
- Demming. Adams, B. (1990). Carotenoids and photoprotection in plants : a role for the xanthophyll zeaxanthin. Biochem. Biophys. Acta, 1020: 1-24.

- Dendsay, J.P.S. and Sachar, R.C. (1978). Hormonal control of peroxidase activity in germinating mung bean cotyledons. Phytochemistry, 17(6). 1017-19.
- *Denny, F.E. (1924-a). Bat. Gaz. (Chicago), 7. 322.
- *Denny, F.E. (1924-b). J. Agric. Res., 27. 757.
- De Oliverira, Dasilva, J.C., Do, D.M. and Amorim, H.V. (1976). Enzymatic activity of polyphenol oxidase and catalase in *Coffea arabica* L. seeds and seedlings. Cinetifica., 4(1). 68-7.
- Dev, Prakash, V. (1970). Nitrate reductase activity in cotton seedlings treated with gibberellic acid 2-chloroethyl trimethyl ammonium chloride, Indian J. Plant Physiol., 13. 67-71.
- Dias, M.A. and Costa, M.M. (1983). Effect of low concentrations on nitrate reductase and peroxidase of sugarbeet leaves. J. Exp. Bot., 142. 537-543.
- Dobrolyubskii, O.K., Ryzha, V.K., Fedorenko, I.F. and Pavlenko, M.M. (1962). Mikrselemety V. Sel'khoz. i Med, Ukr Nauch. Issled. Inst. Fiziol. Rast. Akad. Nauk. Ukr S.S.R. Materialy 4-90. (Chetvertago) Vses. Soveshch Kiev, 183-7; (1965). C.A. 58, 8381.
- Dogra, J.V.V. and Sinha, S.K.P. (1983). Cycocel induced changes in vitamin C content in Phyllanthus urinaria Linn. Shoot Proc. of 70th Session of the Indian Science Congress, Tirupati, pp. 131.

- Doi, R. (1983). Tillering stimulation with ethephon. Rep. Haw. Sugar Technol., 42. 75.
- Effendi H. (1991). Responses of sugarcane Cv. F 154 and M442-51 to ethephon. Berita Pusat Penelitian Perkebunan Gula Indonesia. No. 5. 6-8.
- Elagin, I.N. (1970). Effect of cobalt on the chlorophyll level, intensity of photosynthesis and yield of bauckwheat. Dokl. Vses. Akad. Sel'-Nauk., No. 7. 22- 3.
- Epstein, E. (1965). Mineral metabolism. In. Plant Biochemistry eds. J. Bonner and J.E. Varner, pp. 438-466. Academic press, New york and London.
- Epstein, E. (1972). Mineral nutrition of plants. Principles and Perspectives. Johnwiley and Sons Inc. New York, London, Sydney, Toronto.
- Epstein, E. and Ludwig-Muller, J. (1993). Indol-3-butyric acid in plants : Occurrence, synthesis, metabolism and transport. Physiol. Plant., 88. 382-389.
- Esahi, V. (1991). Ethylene and seed germination. In Eds. Mattoo AK and Suttle JC. The Plant Hormone Ethylene, 133-157. CRS Press Boca Ratoon.
- Evans, D.E., Briars, S.A. and Williams, L.E. (1991). Active calcium transport by plant cell membranes. J. Exp. Bot., 42. 285-303.

- Evans, H. (1936). Some data on the effect of late heavy dressing of nitrogenous fertilizer on the growth and metabolism of sugarcane in Mauritius. Sugar Cane Research Sta. Mauritius, Bull 10, 9.
- Evans, H. (1942). An investigation of physiological methods of determining nutrient deficiencies in sugarcane. Ann. Botany N.S., 6. 413-436.
- Evans, H. (1959). Elements other than nitrogen, potassium and phosphorus in the mineral nutrition of sugarcane. Proc. 10th Congr. ISSCT, 473-508.
- Evans, H. (1960). In : "Cobalt in Biology and Biochemistry". (Roland S. Young). London, Academic Press.
- Evans, H.J. and Sorger, G.J. (1966). Role of mineral elements with emphasis on the univalent cations. Ann. Rev. Plant. Physiol., 17. 47-77.
- Fang, S.C., Bourke, J.B., Stevens, V.L. and Butts, J.S. (1960). Influence of gibberellic acid on metabolism of indoleacetic acid, acetate and glucose in roots of higher plants, Plant Physiol., 35. 251-255.
- Folin, O. and Denis, W. (1915). A colorimetric estimation of phenoles. (and phenol derivatives) in urine. J. Biol. Chem., 22. 305-308.

- Franck, Th., Kevers, Cl. and Gaspar, Th. (1995). Protective enzymatic systems against activated oxygen species compared in normal and vitrified shoots of Prunus avium L.L. raised in vitro, Plant Growth Regulation, 16. 253-256.
- Fric, F. (1976). Oxidative enxymes. In "Encyclopedia of plant physiology, New series, Vol.4. Physiological Plant Pathology". Eds. Heitefuss, R. and Williams, P.H., Springer - Verlag Berlin, Heidelberg, New York, 1976. pp. 617-631.
- Gallardo, M., del Mar Delgado, M., Sanehez Calle, M. and Matilla, A.J. (1991). Ethylene production and 1. aminocyclopropane - 1. carboxylic acid conjugation in thermainhibited *Cicer arientum* L. seeds. Plant Physiol., 97. 122-127.
- Gaspar, T., Penel, C., Thorpe, T. and Greppin, H. (1982). 'Peroxidases' Publ. Universite De. Geneve, Switzerland.
- Garg, O.P. and Kapoor, V. (1972). Retardation of leaf senescence by ascorbic acid. J. Exp. Bot., 23. 699-703.
- Gayler, K.R. and Glasziou, K.T. (1969). Plant enzyme synthesis. Hormonal regulation of invertase and peroxidase synthesis in sugarcane. Planta, 84. 185-194.

- Ghildiyal, M.C., Pande, M. and Sirohi, G.S. (1986). Proline content in linseed varieties as influenced by zinc nutrition. Indian J. Plant Physiol., 24. 368-374.
- Ghorpade, L.N. (1982). Studies in mineral nutrition and photosynthesis in sugarcane. Ph.D. thesis submitted to Shivaji University, Kolhapur. (India).
- Gill, K.S. and Singh, O.S. (1978). Physiological response of dwarf wheat to chlorocholine chloride under soil moisture stress. Biologia Plantarum, 20. 421-424.
- Giri, G. and Gangasaran (1987). Influence of mode and time of chlormequat chloride (CCC) application on groundnut (*A. hypogea* L.) under semiarid conditions in north West India. Expt Agric., 23. 87-92.
- Glass, A.D.M. and Dunlap, J. (1974). Influence of phenolic acids on ion uptake IV. Depolarization of membrane potentials. Plant Physiol., 56. 801-806.
- Glasziou, K.T. and Bull, T.A. (1965). The relation between total invertase activity and internode expansion in sugarcane stalks. Proc. Int. Soc. Sugarcane Technol., 12. 575-581.
- Glasziou, K.T., Waldron, J.C. and Bull, T.A. (1966). Control of invertase synthesis in sugarcane. Loci of auxine and glucose effects, Plant Physiol., 41. 282-288.

- Gosechl, J.G., Rappaport, L. and Pratt, H.K. (1966). Ethylene a factor regulating the growth of pea epicotyl subjected to physical stress. Plant Physiol., 41 : 877-884.
- Gonzales, Crispina. B., Merlyn, R., Sedano, Elipidio. L., Rosaria, and Teodora, C. Menduza. (1980). Growth and yield responses to 6 commercial varieties to foliar spary of gibberellic acid. Philipp. J. Crop Sci., 3(4) : 228-234.
- Gopalchari, N.C. (1963). Changes in activites of certain oxidizing enzymes during germination and seedling development of *Phaseolus mungo* and *Sorghum valgare*. Indian J. Exp. Biol., 1,2, : 98-100.
- *Gozal, B. and Avron, M. (1970). Eur. J. Biochem., 15 : 155.
- Grinberg, A.A. (1971). Physicochemical basis of the protective function of catalase. Latv. PSR. ZI Nat. Akad Veslis, 2 : 60-62.
- *Grover, S. and Purves, W.K. (1976). Pl. Physiol., 57 : 886-889.
- Gupta, U.C. (1979). Copper in agricultural crops. In : Copper in the environment Part-I. Ecological cycling (Eds) J.O. Nriagu. pp. 255-288. Jojn Wiley and Sons. New York.
- Gurrero, M.G., Vega, J.M. and Losada, M. (1981). The assimilatory nitrate reducing system and its

- regulation. Ann. Rev. Plant Physiol., 32 : 169-204.
- *Guseniov, B.Z. and Guseinov, S.G. (1961). Trudy Tashkent Konf. Mirnomu Izpol'z At. Energii, Akad. Nauk. Uzbek. U.S.S.R., 3, 262-267 : (1962). C.A. 57, 14202.
- Gzik, A. and Guenther, G. (1984). Influence of cytokinins on the NRA in leaves of *Beta vulgaris* (sugarbeet) and *Chenopodium album*. Z. Pflanzen Physiol (BPP), 179(4) : 295-301.
- Haddon, E. (1926). A problem for the factory working Uba juice, S. Afr. Sugar. J., 10 : 629-631.
- Hageman, R.H., Flesher, D. and Gitter, A. (1961). Diurnal variation and other light effects influencing the activity of nitrate reductase and nitrogen metabolism in corn. Crop. Sci., 1 : 201-204.
- Hardy, G., Dove, H. and Awad, M. (1986). The use of ethephon for prevention of flowering in sugarcane in Sudan. Proc. Internatl. Soc. Sugarcane Technol., 19(1) : 305.
- Hartt, C.E. (1934). Some effect of potassium upon the amount of protein and amino forms of nitrogen, sugars of enzyme activity of sugarcane. Plant Physiol., 9 : 453-490.

- Hartt, C.F. (1929). Potassium deficiency in sugarcane. Botan Gaz., 88, : 229-261.
- Hartt, C.E. (1963). Translocation of sugar in the sugar plant. Hawaiian Sugar Technologists Report., 151-167.
- Hatch, M.D. and Slack, C.R. (1970). Progress in Photochemistry, Vol. 2. Interscience Publisher, London (Not seen).
- *Harvey, R.B. (1928). Minn. Agr. Expt. Sta. Bull., 247.
- Halevy, A.N. (1964). Effect of gibberellin and growth retarding chemicals on respiration and catalase activity in various organs of cucumber seedlings, J. Expt. Bot., 15 : 546-555.
- Hayashi, T., Takijima, Y. and Murakami, Y. (1953). C.F. by Stowe B.B. and Yamaki, T. in the History and Physiological action of gibberellins. Ann. Rev. Plant Physiol., 8 : 181-216.
- Hawk, P.B., Oser, B.L. and Summerson, W.H. (1948). Practical physiological chemistry. Publ. The Blakiston Company. U.S.A.
- Health, R.L. and Hind, J. (1969). The role of Cl in photosynthesis II. The effect of Cl upon Fluorescence Botan. Gaz., 172 : 290-299.
- Hendricks, S.B. and Taylorson, R.B. (1974). Promotion of seed germination by nitrate, hydroxylamine and ammonium salts. Plant Physiol., 54 : 304-309.

- Hendricks, S.B. and Taylorson, R.B. (1975). Breaking of seed dormancy by catalase inhibition. Proc. Natl. Acad. Sci. U.S.A., 72(1) : 306-309.
- Herbert, D. (1955). Catalase from bacteria. In "Methods in Enzymology". Vol. II. Eds. Colowick, S.P. and Kaplan. N.O. Academic Press, Inc. Publishers, New York. pp. 784-786.
- *Herich, R. and Bobak, M. (1976). Experientia, 32 : 570-I : (1976) C.A. 85, 940.
- Hewitt, E.J. (1948). Relation of manganese & some other metals in the iron status of plants. Nature, 161 : 489.
- *Hoffmann, P. and Albrecht, E. (1966). Z. Pflanzenphysiol., 55 : 292.
- Hong, J.T.; Nam, M.H.; Lee, S.K.; and Park, W. (1983). Changes in peroxidase activity and its isozymes of soyabean, red bean and mung bean during germination. Hanguk Nonghyle Hakhoechi, 26(3) : 151.
- Hsu, W. and Miller, G.W. (1968). Iron in relation to aconitase hydratase activity in *Glycine max*. Merr. Biochim. Biophys Acta., 151 : 711-713.
- Huber, J.L., Huber, S.C., Campbell, W.H. and Redinbough, M.G. (1992). Reversible light / dark modulation of spinach leaf nitrate reductase activity involves protein phosphorylation. Arch. Biochem. Biophys., 296 : 58-65.

- Huber, S.C. (1985). Role of potassium in photosynthesis and respiration. In Potassium in Agriculture (Ed) R.D. Munson, pp. 369-396 Am. Soc. Agron. Madison Wisconsin.
- Huber, S.C. and Maury, W. (1980). Effect of magnesium on intact chloroplast. Plant Physiol., 65 : 350-354.
- Humbert, R.P. (1955). Nutrient balance in sugarcane nutrition. Hawaiian Planter's Record, 55 : 47-54.
- Humbert, R.P. and Martin, J.P. (1955). Nutritional deficiency symptoms in sugarcane. Hawaiian Planter's Record, 55 : 95-102.
- Humbert, R.P. (1963). The growing of sugarcane. Elsevier Publishing Company, Amsterdam.
- Hyde, B.B., Hodge, A.J., Kahan, A. and Brinstiel, M.L. (1963). Studies in phytoferritin. I. Identification and localization. J. Ultrastruc. Res., 9 : 248-258.
- Ioana, M. (1969). Physiological changes during germination of some legume seeds. Lucrari ofimt. Inst. Agron., (N. Bale cescusera)., 12 : 299-306.
- Ivanou, M.P., Ivakhenka, N.M., Lobach, T.Ya; Vashkevich, L.F.; Svirnouski, L.Ya. and Lyakhovich, S.R. (1975). Vest Akad Navuk Beloruss U.S.S.R., Ser. Sel'skagospad Navuk. No. 2, 75-78; (1975) C.A.; 83 : 95492.

- Jacob, A. (1958). Magnesium, The Fifth Major Plant Nutrient. Trans from German by N. Walker, Staples Press Limited London.
- Jaworski, E.G. (1971). Nitrate reductase assay in intact plant tissues. Biochem. Biophys. Res. Commun., 43 :1274-1279.
- John, R.C. and Amen, R.O. (1977). The physiology and biochemistry of seed dormancy and germination. A.A. Khan editor. North-Holland Publishing Company, Amerstardam, New York, pp. 7-25.
- Jones, R.L.; Gilory, S. and Hillmer, S. (1993). The role of calcium in the hormonal regulation of enzyme synthesis and secreation in barley aleurone. J. Expt. Bot., 44(Supp.) 267.
- Jones, E. and Hughes, R.E. (1983). Foliar ascorbic acid in some angiosperms. Biochemistry, 22(11) : 2493-2499.
- Jones, M.M., Turner, N.C. and Osmond, C.B. (1979). In Physiology and Biochemistry of Drought resistance. (L.G. Paleg and D. Aspinall, eds) New York, Academic Press.
- Joshi, R.K. and Hegde, B.A. (1978). Ascorbic acid and stress physiology. Proc. of symposium organised by Indian Soc. Plant Physiology, Ahmedabad, India, pp. 21.

- Joshi, G.V. and Naik, G.R. (1980). Responses of Sugarcane var. Co. 740 to different types of salt stress Plant and Soil., 56 : 255-263.
- Kaiser, W.M. Spill, D. and Glaab, J. (1993). Rapid modulation of nitrate reductase in leaves and roots. : Indirect evidence for the involvement of protein phosphorylation / dephosphorylation. Physiol. Plant., 89 : 557-562.
- Kaloyereas, S.A. (1958). A new method of determining drought resistance. Plant Physiol., 33 : 232-233.
- Kamboj, R.K. and Nainwatee, H.S. (1978). Peroxidase isoenzyme changes in germinating soyabean varieties. Seed Res., 6(2) : 140-144.
- *Kamynina, L.M. (1965). Agrokhimiya, 10 : 232-233.
- Kanwar, K. and Kanwar, R.S. (1984). Effect of Kinetin on growth, yield and quality of sugar cane. Indian Sugar., 33 : 729-733.
- Kaul, K. and Farooq, S. (1992). Kinetin induced changes in growth and activity of some enzymes in morning glory hypocotyl segments. Indian J. Plant Physiol., 37(4) : 214-216.
- Kelly, S. and Avery, G.S. (1949). The effect of 2, 4-dichlorophenoxyacetic acid and other physiologically-active substances on respiration. Am. J. Bot., 36 : 421-426.

- Kessler, E. (1957). Stoffwechselphysiologische Untersuchungen an Hydrogenase enthaltenden Grünalgen. I. Über die Rolle des Mangans bei Photoreduktion and Photosynthese, Planta, 49 : 435-454.
- Khakimav, Kh. and Alizhanov, A. (1974). Effect of trace elements on the growth and development of mulberry tree. Tr. Tashk. S. Kh. Inst., 47 : 26-33.
- *Kidd, F. and West, C. (1933). Gt. Brit. Dep. Sci. Ind. Res., Food Invest, Bd., Rep. 1932 p. 55.
- Kittoch, D.L. and Law, A.G. (1957). Relationship of seedling vigour to respiration and tetrazolium reduction by germinating wheat seedlings. Agron. J., 60 : 286-288.
- Kirk, J.O.T. and Allen, R.L. (1965). Dependence of chloroplast pigment synthesis on protein synthesis : Effect of actidione. Arch. Biochem. Biophys. Res. Commun., 21 : 523-530.
- Krikby, E.A. and Megnel, K. (1967). Ionic balance in different tissue of tomato plant in relation to nitrate, urea and ammonium nutrition. Plant Physiol., 42 : 6-14.
- Knypl, J.S. (1973). Synergistic induction of nitrate reductase activity by nitrate and benzylaminopurine in detached cucumber cotyledons. Z. Pflanzenphysiol., 70 : 1-11.

- Knypl, J.S. (1974). Induction of nitrate reductase by succinic acid, Z. dimethyl hydrazide in cucumber cotyledons. Z. Pflazenphysiol., 71 : 37-48.
- Knypl, J.S. (1978). In 'Nitrogen assimilation of Plants' EDS E.J. Hewitt and C.V. Cuttings. Academic Press : New York pp. 541-555.
- Knypl, J.S. (1979). Hormonal control of nitrate assimilation : Do phytohormones and phytochrome control the activity nitrate reductase. In : 'Nitrogen assimilation in Plants'. EDS. E. J. Hewitt and C.V. Cuttings. Academic Press. London. pp. 541-550.
- Kogl, F. and Elema, J. (1960). *Naturwissenschaften* 47 : go cited form Ann. Rev. Plant Physiol., 16 : 290-322 (1965).
- Kruger, J.E. and Laberge, D.E. (1974). Changes in peroxidase activity and peroxidase isoenzymes of wheat during germination. Cereal Chem., 51(5) : 578-585.
- Kumar, A. and Pande, H.P. (1988). Effect of growth regulators on sugars in sugarcane juice. Indian Jr. of Agricultural Sciences., 58(4) : 319-321.
- Kumar, N. Singh, N.B. Johari, D. and Ali, S.A. (1987). Effect of 2, 4-D presoaking on setts roots development during germination of sugarcane. Bhartiya Sugar., 12(3) : 67, 69-71.

- Kumari, S. (1987). Effect of growth regulators on growth and metabolism of bajara (*Pennisetum typhoides*) and sunflower (*Helianthus annuus* L.) under stimulated drought conditions. Ph.D. thesis submitted to Haryana Agricultural University.
- Kumar, S. and Bharti, S. (1988). Effect of CCC FAP on water status and yield of sunflowers (*Helianthus annuus* L.) under stimulated drought conditions. Indian J. Plant Physiol., 31 : 381-387.
- Kurosawa, E. (1926). Experimental studies on secretion of *Fusarium heterosporum* on rice plants. J. Nat. Hist. Soc., 16 : 213-227.
- Kutwal, D.N. (1989). Influence of Chloro Choline Chloride (CCC) pretreatment on physiology of groundnut. (*Arachis hypogea*. L.) M.Phil. thesis submitted to Shivaji University, Kolhapur. (India).
- Kurosawa, E. (1926). Experimental studies on secretion of *Fusarium heterosporum* on rice plants. J. Nat. Hist. Soc., 16., : 213-227.
- Lal, K.H. and De, R. (1953). Studies in crop physiology. Photosynthesis, respiration and pigment content of sugarcane leaves in relation to age of plant, leaf development and nitrogen deficiency, J. Indian Bot. Soc., 32 : 199-207.

- Lal, S.K., Srivastava, R. and Srinivas, T. (1993). Growth and Productivity of sugarcane in India. Co-operative Sugar., 24 : 10.
- Leigh, R.A. and Wyn. Jones, R.G. (1984). A hypothesis relating critical potassium concentrations for growth to the distribution and functions of this ion in the plant cell. New Phytol., 97 : 1-13.
- Letham, D.S. (1963). Regulators of cell division in plant tissue. I. Inhibitors and stimulants of cell division in developing fruits : their properties and activity in relation to cell division period. Newzeal. J. Bot., 1 : 336-350.
- Laisen - Jensen, S. and Jensen, A. (1971). Quantitative determination of carotenoids in photosynthetic tissues. In "Methods of Enzymology" (Ed.) San Pietro, A; Academic Press, Inc. Publishers, New York, pp. 586-602.
- Lipskays, G.A. and Zelenaya, L.A. (1975). Effect of cobalt on dark resistance of the pigment apparatus of barley. Fizol. Rast., 22 : 277-281.
- Lishchuck, A.I., Kucherova, T.P. and Miroshinchenko, T.A. (1985). On drought resistance increase in Bush Cherry plum and Sweet Cherry plants as influenced by (CCC) chlorocholine chloride. S. KHBIOL., 6 : 80-82.

- Litvinova, L.F. and S. Kh. Yuldashar (1971). Effect of chloremquat and gibberllin on carbohydrate contents in leaves and stem of cotton CV differing in resistance to lodging. Nauchnye Trudy Tashkentskii Sel Skokhozaistvenny Institut., 26 : 133-137.
- Lowry, O.H., Rosenbrough, N.J., Farr, A.L. and Randall, R.J. (1951). Protein measurement with Folin Phenol reagent. J. Biol. Chem., 193 : 262-263.
- Lugo - Lopez, M.A., Samuels, G. and Grant, R. (1953). Failure of preharvest foliage sparys with 2, 4-D and maleic hydrazide to affect the sucrose content of sugarcane, J. Agri. Univ., P.R. 37(1) : 44-51.
- Lui and Corns (1961). In : "Textbook of Botany" (Senior Intermediate Vol. II) by A.S. Krishna, S.R.K. Prasad and N. Sarathchandra Naidu. pp. 328-345.
- Machold, O. and Stephan, U.M. (1969). The function of iron in porphyrin and chlorophyll biosynthesis Phytochem., 8 : 2189-2192.
- Maehly, A.G. (1954). Method in Biochemical analysis. Ed. Glick, D.I. Interscience Publishers. Inc. New York, pp. 385-386.
- Mahajan, B.V.C. and Chopra, S.K. (1992). Effect of pre-harvest application of ethylene inhibitors on polygalacturonase, cellulase and malic dehydro-

- genase enzyme activities of apple during cold storage. Indian J. Plant Physiol., 25(4) : 305-310.
- *Mamedov, Z.I. (1960). Fiziol. Rast. Akad. Nauk S.S.S.R.Z., 724-726., (1961). C.A. 55 : 13742.
- Mangal, J.L., Lal, S. and Arora, S.K. (1988). Studies on the effect of chlorocholine chloride and naphthalene acetic acid application on salt resistance and productivity of okra. Haryana Agric. Univ. J. Res., 18 : 191-197.
- Mann, J. (1978). Secondary metabolism. Oxford University Press, Clarendon.
- Marisiddaiah, M. and Muddappa Gowada, P. (1977). Effect of SADH and CCC on growth and yield of hybrid tomato. Madras Agric. J., 64 : 460-470.
- Marme, D. (1989). The role of calcium and calmodulin in signal transduction. In : Second Messengers in Plant Growth and Development (Eds.) W.F. Boss and D.J. Morre pp. 57-80 Allan, R. Liss., New York.
- Marschner, H. (1986). Mineral nutrition of higher plants. Academic Press Inc. London.
- Martin J.P. (1934). Symptoms of malnutrition manifested by the sugarcane plant when grown in culture solutions from which certain essential elements are omitted. Hawaiian Planters' Record, 38 : 3-30.

- Martin, J.P. (1938). Sugarcane diseases in Hawaii. Expt. Sta. HSPA Honolulu Advertiser Publ. Co., 295 pages.
- Martinez, V. and Lauchli, A. (1991). Phosphorus translocation in salt stressed cotton. Physiol. Plant., 83 : 627-632.
- Mayer, A.M. and Poljakoff Mayber, A. (1975). The germination of seed. 2nd Edition, Pergamon Press, U.K. 192 pp.
- Mazelis, M. and Ingraham, L.L. (1962). The pyridoxal phosphate dependant oxidative decarboxylation of methionine by peroxidase Identification of 3-methyl thiopropioamide as the product of the reaction. J. Biol. Chem., 237 : 109-112.
- McDavid, C.R. and E.A. Babikar (1981). Effect of polaris and G.A. on growth, C¹⁴ fixation and translocation and sugarcontent of two sugarcane cultivars. Trop. Agric., 58(1) : 73-80.
- McGeorge, W.T. (1932). Chemical equivalent base exchange reactions in plants. Plant Physiol., 8 : 119-124.
- Mehta, P.H., Patel, R.J. and Rao, B.V.N. (1974). Effect of gibberillic acid, ascorbic acid, morphactin and their combinations on seedling growth and enzymes of *Cicer arietinum* L. Geobios (Jodhpur); 5 : 130-133.

- Mehta, P.M. and Subhadradevi, M. (1974). Effect of ascorbic acid, gibberellic acid, maleic hydrazide and the combination gibberellic acid and maleic hydrazide on germination and catalase activity in soyabean. Botanique., 5(2) : 100-108.
- Mengel, K. and Kirkby, E.A. (1982). Principles of plant nutrition. 3rd ed. Int. Potash Inst. Bern. Switzerland.
- Mercer, E.L. and Pughe, J.E. (1969). The effect of abscissic acid on synthesis of isoprenoid compounds in maize. Phytochemistry, 8 : 115-132.
- Mihalfi, J.P. (1968). Studies on catalase activity in almond seeds. Ann. Univ. Sci. Bodapeat Rolando Eotvos Nominatae Sect. Biol., 9/10 : 305-308.
- Miller, G.L. (1972). Estimation of reducing sugar by dinitrosalicylic acid method. Anal.Chem, 31 : 426.
- Miller, C.O., F. Skoog, F.S., Okumura, M.H., Von Saltza and Strong F.M. (1955). Isolation, structure and synthesis of kinetin a substance promoting cell division. J. Am. Chem. Soc., 78 : 1375-1380.
- *Minima, E.I. (1973). Trudy Gor'k V. Sel'khoz Inst., 55, 175-80; (1975). C.A. 82, 42270.
- Mohandas, S. and Naidu, K.M. (1989). Increasing heat tolerance in sugarcane setts by presowing hardening. Trop. Agric., 61(4) : 311-312.

- Mooney, M.A. (1972). The carbon balance of plants. Ann. Rev. Ecology and Systematics., 3 : 315-346.
- Moore, R.P. (1973). Tetrazolium staining for assessing seed quality, In "Seed Ecology", Ed. Heydecker, W.; Butterworths, London, 1973, pp.347-366.
- Moore, P.H. (1978). Sugarcane growth response to serial application of gibberillic acid. Proc. Plant Growth Regulator Working Group., 5 : 158-162.
- Moore, Paul H. (1980). Additive and non-additive effects of serial application of GA on sugarcane internode growth. PHYSIOL PLANT., 49(3) : 271-276.
- Moore, R. and Black, C.C. Jr. (1979). Nitrogen assimilation pathway in leaf mesophyll and bundle sheath cells of C₄ photosynthetic plants formulated from comparative studies with *Oligotaria sanguinalis* (L.) Scap. Plant Physiol., 64 : 309-313.
- *Moore and Harhold (1980). Ibid, 19 : 78-82.
- Moore, P.H. and Osgood, R.V. (1980). Use of ethephon to prevent flowering of sugarcane in Hawaii. Proc. 19th Congr. ISSCI; 298-304.
- Morgan, P.W.; Taylor, D.M. and Joham, H.E. (1976). Manipulation of IAA oxidase activity and auxine deficiency symptoms in intact cotton plants with manganese nutrition. Plant Physiol; 37 : 149-156.

- Morrison, R.S.; Brooks, R.D.; Reeves, R.D.; Malaise, F.; Horowitz, P.; Aronson, M. and Merriam, G.R. (1981). The diverse chemical forms of heavy metals in tissues extracts of some metallophytes from Shaba province. Zaire. Phytochemistry, 20 : 455-458.
- Moustafa, Seham M. El-Gandour, M.A. and Ghazi Safia M. (1982). Effect of seed treatment with cycocel and Alar on growth and development of *Vicia faba* plant grown at diff levels of soil salinity. Ain Shams Uni Fac Agric. Res. Bull., (1625) : 1-17
- Mukherji, S. and Paul, A.K. (1971). Respiration in germinating rice seeds. Proc. 58th Ind. Sc. Cong. Part III, 23-9.
- Mumford, F.E.; Stark, H.M. and Smith, D.H. (1962). A naturally occouring cofactor for indole acetic acid oxidase. Plant Physiol., 37 : 14.
- Nable, R.O.; Bar-Akiva, A. and Loneragen, J.F. (1984). Functional manganese requirement and its use as a critical value for diagnosis or manganese deficiency in subterranean clover (*Trifolium subterranean* L. cv. Seaton Park). Ann. Bot., 54 : 39-49.
- Naik, G.R. and Joshi, G.V. (1981). Effect of preplanting treatment with growth substances on sugarcane

productivity under saline conditions. D.S.T.A.
Part I., A-77 - A-85.

Nanda, K.K. (1950). Catalase ratio as a rapid method for determining the germination capacity of seeds. Curr. Sci., 19 : 22-24.

Naphade, K.T.; Sagave, B.N. and Joshi, B.G. (1986). Effect of seed soaking with chemicals on yield and nutrient uptake by sunflower. Jr. Agric. Uni., 11(2) : 189-192.

Neljabow (1901). In "Textbook of Botany". (Senior Intermediate Vol. II) by A.S. Krishna, S.R.K. Prasad and N. Sarathchandra Naidu. pp. 328-345.

Nickell, L.G. (1976 a). Chemical growth regulation in sugarcane. Outlook on Agriculture, 9(2) : 57-76.

Nickell, L.G. (1976 b). Aminopentillanic acid or penicillamine on ropenor for sugarcane. U.S. Patent, 3, 992, 187, Nov. 16.

Nickell, L.G. (1983). Plant growth regulating chemicals : Sugarcane, 1 : 186-204.

Nickell, L.G. (1984). A review of plant growth regulators in the sugarcane industry. Revision de los reguladores del crecimiento de la planta en la industria azucavera sugary Azucar, 79(3) 49-56 (En, Es) reliscol chemical corporation chicago Illinois USA.

- Nickell, L.G. (1984). Plant growth regulators : Sugar Journal., 44(7) : 15-21.
- Nickell, L.G. (1987). Plant growth regulators use in cane and sugar production. Proceeding 14th Annual Meeting Plant Growth Regulators Society of America.
- Nickell, L.G. (1988). Plant growth regulators used in sugarcane and sugar production. Sugary Azucar., 83(3) : 24, 26-29.
- Nickell, L.G. and Meretzki, A. (1970). Sugarcane ripening compounds. Comparison of chemical, biochemical and biological properties, Hawaiian Plant Rec., 58(5) : 71-79.
- Nickell, L.G. and Takashashi, D.T. (1971). Ripening studies in Hawaii with CP - 41845. Rep. Haw. Sugar Technol., : 73.
- Nimbalkar, J.D. (1973). Physiological studies in sugarcane (Physiological studies in *Saccharum officinarum*. L. Var. Co. 740). A Ph.D. Thesis submitted to Shivaji University, Kolhapur. India.
- Norris, W.E.Jr. and Foulds, E.C. (1961). Effect of gibberellic acid and 3 indoleacetic acid and respiration of onion roots and seedlings, Physiol. Plant., 14 : 293-299.

- Ogbonna James, Chukwma and Abraham, P.G. (1989). Effect of seed treatment with some plant growth regulators on germination growth and yield of cowpea. (*Vigna sinensis* Endl.) Jap. J. Crop. Sci., 58(4) : 641-647.
- Osgood, R.V., Moore, P.H. and Ginoza, H.S. (1981). Differential dry matter partitioning in sugarcane cultivars treated with glyphosate. Proc. Plant Growth Regnl. Soc. Amer., 8 : 97.
- Osgood, R.V. and Teshima, A. (1980). The effect of several growth regulators on dry matter production and partitioning in sugarcane Cv. H59-3775. Proc. Plant Growth Regul. Working Group, 7 : 150.
- Palamiano, E.P. and Juliano, P.B. (1972). "Biochemical changes in rice grain during germination". Plant Physiol., 49 : 751-756.
- Panneerselvam, R., Jayabal, V., Tamilselvan, N., Sankaran, N. (1991). Effect of growth regulators, nutrient solution and N. level on yield and yield attributes of sugarcane ratoon. Indian Sugar., 41(7) : 543-545.
- Patham, F.W. (1953). Protein denaturation. The proteins Vol. B. (Ed. M. Neurath and K. Bailey). pp. 807-892. Academic press, New York.

- Patil, B.N. and Lall, S.B. (1974). Effect of presowing soaking treatment with L. AA and GA on growth and physiochemical constituents of wheat. Botanique, (Nagpur) 4(1) : 57-70.
- Paul, A.K. and Mukherjee, S.P. (1972). Changes in respiration, rate of rice seedlings an effected by storage and viability and its possible relation with catalase and peroxidase activities during germination. Biol. Plant., 14(6) : 414-419.
- Pavel, J. and Zakova, J. (1967). The effect of various microelements on changes in the activity of certain enzymes in hydroponically cultivated barley during the first period of grwoth. Bio. Plant., 9 : 383-391.
- Pawar, L.G. (1990). On the use of cycocel an artificial ripener for sugarcane under coastal areas of Maharashtra. Indian Sugar., 40(2) : 109-111.
- *Petersuburgskii, A.V. and Yang, H. (1963). Dokl. Mosk. Sel-Khoz. Akad., No. 84, 213-218 : (1964). C.A. 60, 8351.
- Pflugger, R. and Mengel, K. (1972). Dis photochemiche activatat von chloroplasten aus unterschiedlich mit kalium ernaftrten pflunzen. Plant Soil., 36 : 417-425.

- *Pirozhnikov, K.D. (1962). Zhivotnovodstvo, 24 : 43-44 :
(1964) C.A. 61, 9999.
- Pinton, R., Cakmak, I. and Marschner, H. (1993). Effect of zinc deficiency on proton fluxes in plasma membrane enriched vesicles isolated from bean roots. J. Exp. Bot., 44 : 623-630.
- Pinton, R.; Cakmak, I. and Marschner, H. (1994). Zinc deficiency enhanced NAD (P). H-dependent superoxide radical production in plasma membrane vesicles isolated from roots of bean plants. J. Exp. Bot., 45 : 45-50.
- Popp, M. and Kinzel, H. (1971). Changes in the organic content of some cultivated plants induced by mineral ion deficiency. Plant. Physiol., 47 : 525-531.
- *Potakhina, L.N. (1965). U. Chen. Zap. Petrozavodsk. Gos. Univ., 13, 130-137 (1966). C.A. 65, 19261.
- *Prakash, V. (1970). Indian J. Plant Sci., 13 : 67-71.
- Prakash, S., Raut, C.P. and Kapor, H.C. (1984). Role of cytokinins in induction of NR in leaves of cowpea seedlings. Indian J. Biochem. Biophys., 21(3) : 198-220.
- Price, C.A. and Thimann, K.V. (1954). Dehydrogenase activity and respiration : a quantitative comparison. Plant Physiol., 29 : 495.

- Rahimi, A. (1970). Kupfermangel bei höheren pflanzen
Landwirtsch. forsch., Sonderh., 25(I) : 42-47.
- Rane, M.R. (1991). Physiological studies of leaf senescence
syndrome in groundnut (*Arachis hypogea* L.) Ph.D.
thesis submitted to Shivaji University, Kolhapur.
India.
- Ram, C., Balasimha, D. and Tewari, M.N. (1976). Effect of
gibberellic acid and auxin on Growth, Sulfhydryl
content and Peroxidase activity in *Phaseolus*
radiatus L. seedlings. The Plant Biochem.
Journal., 4(1) : 28-77.
- Rao, J. (1973). Cytochemical localization of peroxidase in
plant cells. Physiol. Plant., 28 : 132-133.
- Reid, P.D. and Marsh, H.V. (1969). Gibberellic acid promoted
activity of α -phenylalanine ammonia lyase in
several plant species. Z. Pflanzenphysiol., 61 :
170-172.
- Reilly, M.C. (1976). The nitrate assimilation capacity of
some Irish grown wheat (*Triticum vulgare*)
varieties. Levels of NAR and its distribution in
the plants. Proc. R. IR. Acad. Sect. B., 76(32-34)
: 543-554.
- Rice (1979). Alleopathy. An uptodate. Bot. Rev., 45 :
15-109.

- Roberts, E.H. (1972). Dormancy, a factor affecting seed survival in the soil, In "Viability of Seeds", Ed. Roberts, E.H., Chaponan and Hall, London, pp. 321-359.
- Robson, A.D. and Reuter, D.J. (1981). Diagnosis of copper deficiency and toxicity. In "Copper in soils and plants" (Eds.) Longeragan, J.F., Robson, A.D. and Graham, R.D. pp. 287-312. Academic Press, London.
- Rodriquez, R. and Tames, R.S. (1983). IAA oxidase and peroxidase distribution and localization in *Cicer arietinum* L. seedlings. Phyton., 43 : 75-80.
- Rostron, H. (1973). A review of chemical ripening of sugarcane with Ethrel in Southern Africa. Proc. Internatl. Soc. Sugar cane Technol., 16(2) : 1605.
- Rubin, B.A. and Artisikhovskaya, E.V. (1963). Biochemistry and physiology of plant immunity. Pergamon Press, Oxford, pp. 358.
- Sacher, J.A. and Glasziou, K.T. (1962). Regulation of invertase levels in sugarcane by an-auxin-carbohydrate mediated control system. Biochem. Biophys. Res. Commun., 8(4) : 280-282.
- Sacher, J.A.; Hatch, M.D. and Glasziou, K.T. (1963). Sugar accumulation cycle in sugarcane III. Physical and metabolic aspect of cycle in immature storage tissues. Plant Physiol., 38(3) : 384-454.

- Saha, H. and Gupta, K. (1993). Effect of LAB-150978-A plant growth retardant on sunflower and mung bean seedlings under salinity stress. Indian J. Plant Physiol., 36(3) : 151-154.
- Sahay, G. and Verma, B.K. (1992). Effect of pretreating the seeds of linseed with growth hormones on nitrogen and oil content. Geobios., 19 : 176-177.
- Samibhi, M.S.; Arora, S.K. and Chibba, I.M. (1975). Enfluence of seed treatment with 2-chloroethyl phosphonic acid, gibberillic acid, ascorbic acid and simazine on growth and nutrient composition of pea seedlings. Plant Soil., 43(3) : 697-699.
- Saini, H.S.; Consolacion, E.D.; Bassi, P.K. and Spencer, M.S. (1986). Requirments for ethylene synthesis and action during relief of thermoinhibition of lettuce seed germination by combinations of gibberillic acid, kinetin and carbondioxide. Plant Physiol., 81 : 950-953.
- Saito, T. and Kenjo, M. (1939). On the influence of the phosphorus deficiency upon the vegerative growth, accumulation of sugars, nitrogen content and ash constituents in the sugarcane plants. Proc. 6th congr., ISSCT, 347-357.
- Samuels, G.; Velez, A.; Riera, A.; Yates, A. and Walker, B. (1970). Evaluation of chemical ripeners for

sugarcane. A final report relating to chemical ripener studies conducted jointly by personnel from the Agricultural Experiment Station, Univ.P.R. and from Tate and Lyle Ltd., London, in co-operation with the department of Agriculture, Commonwealth of Puerto Rico.

Sangeeta and Varshney, K.A. (1991). Effect of gibberellic acid, maleic hydrazide and cycocel on early growth and activities of some oxidoreductases in *Avena sativa* L. J. Expt. Biol., 29(1) : 80-82.

Sandmann, G. and Boger, P. (1983). The enzymatological function of heavy metals and their role in electron transfer process of plants. In "Encyclopedia of Plant Physiology, New Series", (Eds.) A. Lauchli and R. Bielecki, Vol. 15A, pp. 563-596. Springer verlag, Berlin and New York.

Saran, B. (1988). Effect of IAA on growth and yield of mustard. Geobios., 15 : 249-251.

*Satsukevich, V.B. (1974). Dokl. Akad. Nauk. Bearuss. S.S.R., 18, 271-274 : (1974).C.A. 80, 144762

Scandalics, J.G. (1969). The genetic regulation of multiple molecular forms of enzyme on plants. Biochem. Genet., 3 : 37.

Schonobeck, M.W. and Egley, G.H. (1981). Changes in sensitivity of *Amaranthus retroflexus* L. seeds to

- ethylene during preincubation. I. constant temperatures. Plant Cell Environ., 4 : 229-235.
- Schutte, K.H. and Schendel, H.E. (1958). Influence of trace elements upon plant protein composition. Nature., 182 : 958.
- *Sechenska, M., Tomova, N. and Dechev, C. (1968). Compt. Rend. Acad. Bulg. Sci., 21 : 277.
- *Semina, R.M. (1967). Nauch Dokl. Vyssh; Shk. Biol. Nauki 3., 80-83 : (1967). C.A. 67, 10806.
- *Semina, R.M. (1970). Biol. Nauki No.6., 69-72 : (1971). C.A. 74, 52540.
- Sekine, I.; Sasakava, T.; Mortia, S.; Kimara, T. and Kuratomi, T. (1965). C.F. Laboratory manual for physiological studies of Rice. Ed. Yoshida, S. Forna, D. Cook, J.H. and K.A. Institute, Manila, 1972.
- Sena, I.G.E.; Rugai, S.; Filho, J.O.; Sousa, J.A.G.C. and Filho, V.F.N. (1974). Effect of growth regulators on rooting and initial development of sugarcane Var. Co. 740. Brasil Acuc., 84 : 349-355.
- Shamugasundaram, Y.S.; Shrinivasan, T.R.; Arunachalam, N. and Shankran, N. (1974). Studies on the effect of pretreatment on germination of sugarcane. Sugar News., (India) 6(6) : 16-18.

- Sharma, H.K.; Arvind Kapur, A.; Mann, P.S. and Kanwar, R.S. (1984). Sugarcane Research Station, Punjab Agricultural University, Jalandhar, India.
- Sharma, H.K.; Arvind Kapur, A.P.; Mann, P.S. and Kanwar, R.S. (1985). Effect of growth regulators on ratoon cane sprouting and yield. Sugarcane., 15-16.
- Sharma, S.K.; Bal, A.R. and Joshi, Y.C. (1983). Polyphenol oxidase activity in glycophytes and alkali halophytes under salt stress. Curr. Agric., 7 : 71-74.
- Shashidhar, V.R.; Mekhari, A.A. and Krishnasastry, K.S. (1981). Potassium content and proline accumulation following seed treatment with calcium chloride in groundnut varieties. Indian J. Plant Physiol., 24 : 89-92.
- Sherra, I.G.E.; Rugai, S.; Filho, J.O.; Sousa, J.A.C.C and Filho, V.F.N. (1974). Effect of growth regulator on rooting and initial development of sugarcane variety Co. 740. Brasil. Acuc., 1974-84, 349-355. Quoted from International Sugar Journal, Vol. L-27 No. 921. p. 272.
- Shetty, G.P. (1971). Physiology of growth and salt tolerance of plants. Ph.D. thesis submitted to Shivaji University, Kolhapur. (India)

- Shkol'nik, M.Ya. (1961). In : Cobalt in Biology and Biochemistry. (Roland S. Young) Academic Press, London.
- Shkol'nik, M.Ya.; Bozhenko, V.P. and Maevskaya, A.N. (1960). Fiziol. Ustoichivosti Rast. Sb., 522-527, (1962) 57 10239.
- Shimazaki, K.; Sasbaki, T.; Kondo, N. and Sugahara, K. (1980). Plant Cell Physiology., 21 : 1193.
- Singh, B.N. (1941). Growth of sugarcane plant in India II Physiological effects of deficiency or excess of added fertilizers upon growth characters, carbohydrate metabolism, yield and juice quality of sugarcane. Proc. Indian Acad. Sci., 14B : 201-234.
- Singh, H.; Darra, B.L. and Jain, N. (1974). Role of some phytohormones as presowing soaking seed treatment on growth and yield attributes of wheat (*Triticum aestivum* L.) irrigated with saline-alkaline water in conjunction with different levels of boron. Ann. Arid. Zone., 13(2) : 84-93.
- Singh, K.; Soloman, S. and Bhatnagar, S. (1986). Biochemical changes in germinating sugarcane setts treated with growth regulator - Tricantanol. Indian Sugar., 36 : 299-302.

- Singh, R.K. and Kumar, R. (1988). Effect of NAA, Etherel and 2, 4-D on vegetative growth and yield of okra. (*A. esculentus* (L.) Monech). Veg. Sci., 15 : 190-192.
- Singh, H.; Puran, A.A.K. and Gill, H.S. (1955). Germination studies in sugarcane. Proceeding of Second Biennial Conference of S.R.D.W. Part-II, 665-675.
- Singh, A. and Singh, U.S. (1964). Hormones and sugarcane. II. Effect of indolacetic acid on growth, yield & quality of sugarcane. Proc. 5th all India Conf. of Sugarcane Res. & Dev. Work., India pp. 333-336.
- Singh, R. and Singh, D. (1975). Peroxidase polyphenoloxidase and catalase isozymes during germination and early plant development of tall and dwarf wheat (*Triticum aestivum* L.) Proc. 5th all India Conf. of Sugarcane res. and dev. work., India pp. ---
- Sinha, S.K. and Nicholas, D.J.D. (1981). Nitrate reductase. In : 'Physiology and Biochemistry of Drought Resistance in Plants'. Academic Press, Austrelia. pp. 145-169.
- Sircar, S.M. (1967). Biochemical changes of rice seed germination and its control mechanism. Trans. Bose. Res. Inst., 30 : 189-198.
- Skoog (1954). Growth and growth hormones. In : 'A Text Book of Plant Physiology' (Eds. V. Verma). pp. 495. Emkay Publication, Delhi.

- Smith, G.S.; Cornforth, I.S. and Henderson, H.V. (1984). Iron requirments of C_3 and C_4 plants. New Phytol., 99 : 1267-1270.
- Smith, A.F. and Raven, J.A. (1979). Intracellular pH and its regulation. Ann. Rev. Plant. Physiol., 30 : 289-311.
- Sperrazza, J.M. and Spermalli, L.L. (1983). Quantitation of cation binding to wheat germ ribosomes : influence on subunit association equilibria and ribosome activity. Nucleic Acid. Res., 11 : 2665-2679.
- Srivastava, H.S. (1980). Regulation of nitrate reductase activity in higher plants. Phytochemistry., 19 : 725-733
- Stahmann, M.A. and Demorest, D.M. (1972). Changes in isoenzymes of host and pathogen following some fungal infections. Symp. Biol. Hungery., 13 : 355-365.
- Startseva, A.V. (1963). Kazanskogo Filiola. Akad. Nauk. SSSR, Ser. Biol. Nauk., 9 : 68.
- Stenlid, G. and Samorodova - Bianki, G.C. (1969). Lantbrukshog skolans Annaler. C.F. Chinoy, N.J. (1978). Polyphenols. In : "Role of ascorbic acid in growth, differentiation and metabolism of plants" 1984. Martiums Nijhoff - Dr. W. Junk Publishers. The Hague. pp. 277-283.

- Stoddart, J.L. (1964). Chemical changes in *Lolium temulentum* L. after treatment with (2-chloroethyle Trimethyl ammonium chloride) CCC. Welsh Plant Breeding Station, Aberystwyth. 604-613.
- Stout, P.R. (1961). Micronutrients in crop vigour. Proc. 9th Ann. Colif. Fertilizer Conf., pp. 21-23.
- Stowe, B.B. and Yamaki, T. (1957). The History and Physiological action of the gibberellins. Ann. Rev. Plant Physiol., 8 : 181-216.
- Strogonov, B.P.; Kabanov, V.V.; Shevjakavo, N.I; Lapina, L.P.; Komizerko, B.I.; Popov, B.A.; Dastanova, R.Kh. and Prykhod'ko, L.S. (1970). Structure and function of plant cells under saline conditions. Moscow Nauka., pp. 248.
- Sushma Rani, Kuhad, M.S. and Nandwal, A.S. (1985). Effect of growth retardants on germination, early growth and biochemical changes in Raya (*Brassica juncea*) under stimulated stress. National Seminar on Plant Physiology, December 15-17.
- Sytnik, K.M. and Masatenko, L.I. (1967). Growth rate nucleic acid and phosphorus metabolism. Rost Ustolchivost, Rast Respub. Mezhvedom SB., 3 : 41-44.
- Takahashi, D.T. (1969). Chemical effects on tillering. Ann. Rpt. Exp. Stn. Haw. Sugar Planters Assoc., 50.

- Takahashi, M. and Asada, K. (1977). Maganese binding to the sodium cyanide treated chloroplasts : Effect of light and redox potentials on the binding. Plant Cell Physiol., 18 : 807-814.
- Thomas, M. and Beevers, H. (1949). Physiological studies in acid metabolism in green plants II. Evidences of CO₂ fixation in *Bryophyllum calycinum* and the study of diurenal fluctuations in the germs. New Phytol., 48 : 421-447.
- Thimann, K.V. (1934). Studies on growth hormone of plants. VI. The distribution of the growth substances in plant tissue. J. gen. Physiol., 18 : 22-34.
- Thomas, T.H. (1983). Stimulation of celeriac (*Apium graveolens* var. *rapaceum*) and celery (*A. graveolens*) seed germination by growth regulator seed soaks. Seed Sci. Tehcnol., 11(2) : 301-306.
- *Tolbert, N.E. (1960). J. Biol. Chem., 235 : 475-479.
- Tolbert, N.E. (1971-a). Microbodies - peroxisomes and glyoxysomes. Annu. Rev. Plant Physiol., 22 : 45-74.
- Tolbert, N.E.(1971-b). Leaf peroxisomes and photorespiration. In : "Photosynthesis and Photorespiration". Eds. Hatch, M.D.; Osmond, C.B. and Slayter, R.O. Wiley Interscience, New York. pp. 458-471.

- Toth, S.J.; Prince, A.L.; Wallace, A. and Mikkelesen, D.S. (1948). Rapid quantitative determination of eight mineral elements in plant tissues by systematic procedure involving use of flame photometer. Soil Sci., 66 : 459-466
- Tregubenko, M.V.; Filipov, G.L. and Vishulvski, N.V. (1973). Respiratory metabolism of corn following improved growing conditions. Dokl. Vses. (Ordena lenina) Akad. S. Kh. Nauk. Imv.1 Lenina., 12 : 4-6.
- Triplett, E.W.; Barnett, N.M. and Blevins, D.G. (1980). Organic acids and ionic balance in xylem exudate of wheat during nitrate and sulphate absorption. Plant Physiol., 65 : 610-613.
- Ulrich, A. and Hills, F.J. (1967). Principles and practices of plant analysis. In : Soil testing and plant analysis Part II (Ed) G.W. Hardy. pp. 11-24. Soil Society of America, Special Pub. No. 2.
- Upreti, M. and Yadhav, R.B.R. (1985). Effect of cycocel on lodging, yield & grain quality of *Avena sativa* cultivar Kent. Indian J. Plant Physiol., 28(1) : 103-108.
- Vallance, L.G. (1956). Sugar and cane quality studies. Rept. Bur. Sugar Exp. Sta. (Queensland)., 56 : 24-25.
- Van Overbeek, J. (1943). Plant hormones and the development of sugarcane. Gilmore's Puerto Rico Sugar Manual., 19-22.

- Vleck, L.M. and Gassman, M.L. (1979). Reversal of α - α dipyridyl induced porphyrin synthesis in etiolated and greening red kidney bean leaves. Plant Physiol., 64 : 393-397.
- Villareal, E.P. and Santos, O. (1958). The effect of gibrel upon the growth and yield of sugarcane. Proc. Philippine Sugar Technol. 6th Annu. Conv., 87-91.
- Vlitos, A.J. and Lawrie, I.D. (1967). Chemical ripening of sugarcane. A review of field studies carried out in Trinidad over a five years period. Proc. Int. Soc. Sugar Technol., 12 : 429-445.
- Vora, A.B.; Dehal, K.S. and Vyas, A.V. (1976). Effect of GA on catalase and peroxidase activity of pearl millet (Bajara) seedlings grown under restricted moisture level. Sci. and Cult., 42(19) : 479-481.
- Vora, A.B.; Patel, H.C.; Vyas, A.V.; Patel, B.R. and Patel, J.N. (1975). Ascorbic acid turnover in water stressed *Sesamum* seedlings. Geobias., 2 : 186-187.
- Vyas, D.N.; Patel, K.G. and Patel, R.D. (1965). Influence of pregermination chemical treatment on ascorbic acid and ascorbic acid oxidase of peanut. Naturwissenschaften., 52 : 166-167.
- Weatherly, P.E. (1950). Studies in the water relation of the cotton plant. I. The field measurements of water deficit in leaves. New Phytol., 49 : 81-97.

- Weatherly, P.E. (1965). The state and movement of water in the leaf. Sym. Soc. Exp. Biol., 19 : 157.
- Weller, D.M. (1930). Accumulation of starch in the stalks of Natal Uba cane grown on acid soil. Hawaiian Plant Rec., 33 : 294-299.
- Went, F.W. (1929). On a substance causing root formation. Proc. Kon. ned. Akad. Wet., 32 : 35-39.
- Wessels, J.S.C. and Van der Veen, R. (1956). The action of derivatives of phenylurethan and 3-phenyl-1, 1-dimethylurea on Hill reaction. Biochem. Biophys. Acta., 19 : 548-549.
- Yabuta, T. and Sumoki, T. (1938). "Communication to the editor". J. Agric. Chem. Soc. Japan., 14 : 1526.
- Yadav, R.B.R. (1971). Note on the effect of CCS on germination of shoot : root ratio of sugarcane setts. Indian J. Agric. Sci., 41 : 638-663.
- Yadav, R.B.R.; Ahmad, S.T. and Tripathi, M. (1975). Chlorophyll stability index of certain cultivated and non-cultivated oats. Geobios., 2 : 156-157.
- Yadav, R.B.R.; Patil, B.D. and Sreenath, P.R. (1978). Effect of growth regulators on leaf growth, photosynthetic pigments and seed yield of berseem (*Trifolium alexandrinum* L.) Forage Res., 4 : 121-125.
- Yamaguchi, Tadashi, Hisao; Nashioka, Takeshi Yasuda and Naotsugu Uchida. (1986). Effect of gibberllin

- application at different growth stages on the growth of sugarcans. SCI REP FAC AGRIC KOBE UNIV., 17(1) : 13-18.
- Yang, P.C. (1986). Effect of plant growth regulators on sugarcane production in Taiwan. Taiwan Sugar., 33 : 17-25.
- Yang, P.C.; Ho, F.W. and Wei, C.C. (1980). Application of plant growth regulators for pormoting, sprouting and growth of ratoon cane. Taiwan Sugar., 27(4) : 131.
- Yasumaisu, N. (1967). Studies on the chemical regulation of alkaloid biosynthesis in tobacco plants II. Inhibition of alkalod biosynthesis by exogenous auxins. Agri. Biol. Chem., 31(12) : 1441-1447.
- Yates, R.A. (1972). Effect of environmental conditions and co-administration of growth retardants on the response of sugarcane to foliar treatment with gibberllin. Agron. J., 64 : 31-35.
- Yates, R.A. and Bates, J.F. (1957). Preliminary experiments on the effect of chemicals on the ripening of sugarcane. Proc. Br. W. Indies Sugar Tehnol., : 174-189.
- Young, R.S. (1979). Cobalt in Biology and Biochemistry. Academic Press London. pp. 1-147.

- Yuen, Q.H. and Borden, R.T. (1937). Chemical analysis as an aid in the control of nitrogen fertilization. Hawaiian Planter's Record., 41 : 353-383.
- Zairov, S.Z.; Erezhepor, A.E. and Valikhanova, G.Zh. (1983). Activation of isoperoxidase of wheat in early stages of seed germination. Izv. Akad. Nauk. Kaz. SSR. Biol., 4 : 16-20.
- Zayed, E.A.; El-Zawily, A.I. and Ibrahim, S.A. (1985). Growth, yield and chemical composition of Okra plants. (*Abelmoschus esculentus* cultivar *clermont* *spineless*) as affected by some growth regulators. Angew. Bot., 59 : 199-208.
- Zhang, Liangching, Guo, Weiming and Chen, Yongsheng (1983). Studies on the relation between peroxidase activity and germination of *Binus koraiensis* seeds and on metabolic inhibitors in the seeds. Zhiwuxuebac., 25(1) : 53-61.
- Zimmerman, P.W. and Hitchcock, A.E. (1942). Substituted phenoxy and benzoic acid growth substances and the relation of structure of physiological activity. Contr. Boyce Thompson Inst., 12 : 321.

* Originals are not seen.