

B I B L I O G R A P H Y

B I B L I O G R A P H Y

- ✓ Abel, G.H. and Mackenzie, A.J. 1964. Salt tolerance of soybean varieties (Glycine max L. Merrill.) during germination and later growth. *Crop. Sci.* 4: 157-161.
- ✓ Abdel-Salam and Khalaf, S.M. 1979. Responses of soybean to sodium chloride salinization. *Res. Bull. Fac. of Agric. Ain Shams Univ.*
- ✓ Arad, S. and Richmond, A.E. 1973. RNase activity in barley leaves in relation to leaf water content. *Isr. J. Bot.* 22: 208.
- ✓ Artemova, E.K. 1968. Presowing stimulation of Cucumber seeds by succinic acid at various temperatures. *Sb. Nauch. Rab. Aspir. Voronezh. Gos. Univ. No.* 4: 209-213.
- ✓ Asana, R.D. and Kale, V.R. 1965. A study of salt tolerance of four varieties of wheat. *Ind. J. Pl. Physiol.* 8(1): 5-22.
- ✓ Bal, A. R. 1976. Salinity tolerance through seed treatment with proline. *Biol. Plant (Prague)* 18(3): 227-229.
- ✓ Balasubrahmanian, C. and Sinha, S.K. 1976. Effect of salt stress on growth, nodulation and  $N_2$  fixation in cowpea and mung beans. *Physiologia Plant.* 36(2): 197.

- ✓ Balasubramanian, V. and Sarin, M.N. 1974. Effect of growth retardants on yield of wheat grown on saline soil. Ind. J. Pl. Physiol. 17(1-2): 36-38.
- ✓ Benner, 1978. In halophyte seed germination by Ungar, I.A. Bot. Rev. 44(2): 252.
- ✓ Bennet , P.A. and Chrispeels, M.J. 1972. De novo synthesis of ribonuclease and  $\beta$ - 1,3-glucanase by aleusone cells of barley. Plant. Physiol. 49: 445-447.
- ✓ Bernfeld, P. 1955. Amylases,  $\alpha$  and  $\beta$ . Methods in Enzymology. Vol. I : 149-155.
- ✓ Bernstein, L. and Hayward, H.A. 1958. Physiology of salt tolerance. Ann. Rev. Plant Physiol. 9: 25-46.
- ✓ Bewley, J.D. and Black, M. 1978. Physiology and Biochemistry of seeds in relation to germination. Springer-Verlag Berlin, Heidelberg, New York. p. 226.
- ✓ Bharadwaj, S.N. and Rao, I.M. 1960. Physiological studies on salt tolerance in crop plants. IX. Effect of NaCl and  $Na_2CO_3$  on seedling respiration and growth of wheat and gram. Ind. J. Pl. Physiol. 3(1): 56.
- ✓ Bhatnagar, M.P. and Murty, C.S. 1960. A preliminary study on the effect of salinity on wheat varieties. Proc. First Conf. of Res. workers on Plant Physiology held at IARI, New Delhi, May, 1960.

- ✓ Black, H.S. and Altschul, A.M. 1965. Gibberellic acid-induced lipase and  $\alpha$ -amylase formation and their inhibition by aflatoxin. Biochem. Biophys. Res. Commun. 19: 661-664.
- ✓ Blagoveshchenshii, A.V. and Rakhmanov, R.R. 1964. Pre-planting stimulation of cotton seeds with succinic acid. Kholpkovodstvo 14(2): 23-24.
- ✓ Boucaud, J. and Ungar, I.A. 1976. Hormonal control of germination under saline conditions of 3 halophytic taxa in the genus Suaeda. Physiol. Plant. 37(2): 143.
- ✓ Briggs, D.E. 1963. Biochemistry of barley germination. Action of gibberellic acid on barley endosperm. J. Inst. Brew 69: 13-19.
- ✓ Cerans, V., Corpade, V. and Glonda, G. 1970. The behaviour of some winter wheat varieties under the action of Cycocel. Inst. Agron. Thni. Ligrstiat. Agron. 11: 315-318.
- ✓ Chapman, V.J. 1974. Salt marshes and salt deserts of the world. Stechert-Macmillan, Pennsauken, New Jersey. p. 494.
- ✓ Chakravarty, R.K. 1969. Cycocel induced changes in rice (Oryza sativa L.). Bull. Bot. Soc. Bengal 23(2): 213-218.

- ✓ Chatterton, N.J. and Mc Kell, C.M. 1969. Atriplex polycarpa L. Germination and growth as affected by sodium chloride in water cultures. Agron. J. 61: 448-450.
- ✓ Chrispeel, M.J. and Varner, J.E. 1967 a. Gibberellic acid enhanced synthesis and release of  $\alpha$ -amylase and ribonuclease by isolated barley aleurone layers. Plant Physiol. 42: 398-406.
- ✓ Chrispeel, M.J. and Varner, J.E. 1967 b. Hormonal control of enzyme synthesis : On the mode of action of GA<sub>3</sub> and abscisic acid in aleurone layers of barley. Plant. Physiol. 42: 1008-1016.
- ✓ Chu, T.M., Aspinall, D. and Paleg, L.G. 1974. Stress metabolism. VI. Temperature stress and the accumulation of proline in barley and radish. Aust. J. Plant. Physiol. 1: 87-97.
- ✓ Chu, T.M., Aspinall, D. and Paleg, L.G. 1976. Stress metabolism. VII. Salinity and proline accumulation in barley. Aust. J. Plant. Physiol. 3: 219-228.
- ✓ Cohen, B.S., Leshem, Y. and Pinsky, A. 1969. Gibberellin and protease activity in Medicago sativa. Physiol. Plant. 22: 37-42.

- ✓ Curtis, E.J.C. and Cantlon, J.E. 1965. Studies of the germination process in Melampyrum lineare. Am. J. Bot. 52: 552-555.
- ✓ Darra, B.L., Namokar, Jain and Singh, H. 1970. Effect of growth regulators and salts on the germination of wheat (Triticum aestivum L.) under high salinity, sodium-absorption ratio and boron levels. Ind. J. Agric. Sci. 40(5): 438-444.
- ✓ Dave, J.J. 1976. Studies on the effect of gibberellic acid on the physiology of germination of cotton (Gossypium herbaceum L. var. Digvijay). Ph. D. Thesis, The M.S. University of Baroda, Baroda, India.
- ✓ Devay, M., Sharaky, M., Feher, M. and Kovacs, I. 1970. Some physiological effects of CCC on Phaseolus vulgaris. Proc. XVIIIth Int. Hortic. Congr., Tel-Aviv 1: 46.
- ✓ Drozdov, N.A. and Babuk, R.F. 1968. Succinic acid as a growth promoter for cereals. Sel'skokhoz. Biol. 3(1): 152-153.
- ✓ Edelman, J. and Hall, M.A. 1964. Effect of growth hormones on the development of invertase associated with cell walls. Nature 201: 296-297.
- ✓ Ehrler, W. 1960. Some effects of salinity on rice. Bot. Gaz. (Chicago) 122: 102-104.

- ✓ El-Fouly, M.M. and Jung, J. 1972. Enzyme activity in wheat seedlings grown under different NaCl salinity levels and their interaction with growth regulators. Biochem. Physiol. Pflanz. 163: 492-498.
- ✓ Ergle, R.D. and Guinn, G. 1959. Phosphorus compounds of cotton embryos and their changes during germination. Plant Physiol. 34: 476-481.
- ✓ Feekes, W. 1936. De ontwikkeling van de natuurlijke vegetatie de wieringermeer-polder, de eerste groote droogmakerij van der Zuiderzee. Nederl. Kruidk. Arch. 46: 1-296.
- ✓ Fiske, C.H. and Subbarow, Y. 1925. The colorimetric determination of phosphorus. J. Biol. Chem. 66:375-400.
- ✓ Flowers, T.J. 1972. The effect of sodium chloride on enzyme activities from four halophyte species of Chenopodiaceae. Phytochem. 11: 1881-1886.
- ✓ Folin, O. and Malmros, H. 1929. In : Manometric Technique. ed. Umbreit, W.W., Burris, R.H. and Stauffer, J.F. 1957. p. 238. J. Biol. Chem. 83-115.
- ✓ Frankland, B. 1961. Effect of gibberellic acid, kinetin and other substances on seed dormancy. Nature(Lond.)192: 678-679.

- ✓ Furrer, O.J. and Stauffer, W. 1978. Influence of row spacing, seed rate and application of nitrogen and cycocel on winter wheat (Triticum aestivum L.) and Triticum spelta L.). Schweizerische Landwirtschaftliche Forschung 17: 2936.
- ✓ Gale, J. 1975. Salinity and plant hormones. In: "Plants in saline environment". ed. Poljakoff-Mayber, A. and Gale, J. p. 172. Springer-Verlag, Berlin, Heidelberg Publication.
- ✓ Gertsuszkii, D.F. 1959. Effect of some trace elements and stimulators on the growth, development and crop of Zea mays. Doklady Vsesoyus. Akad. Sel'skokhoz. Nauk im. V.I. Lenina 24, No. 5: 17-20.
- ✓ Goas, M. 1965. as quoted in "Plants in Saline Environments". ed. by Poljakoff-Mayber, A. and Gale, J. 1975. p. 158. Springer-Verlag, Berlin, Heidelberg, New York.
- ✓ Goas, M. 1967. as quoted in "Plants in Saline Environments". ed. by Poljakoff-Mayber, A. and Gale, J. 1975. p. 158. Springer-Verlag, Berlin, Heidelberg, New York.
- ✓ Goyal, A.K. and Baijal, B.D. 1979. Genetic diversity of protease activity in some rice varieties in relation to gibberellic acid. Comp. Physiol. Ecol. 4(4): 251-253.

- ✓ Greenway, H. and Osmond, C.B. 1972. Salt response of enzymes from species differing in salt tolerance. *Plant Physiol.* 49: 256-259.
- ✓ Guardiola, J.L. and Sutcliffe, J.E. 1971. Mobilization of phosphorus in the cotyledons of young seedlings of the garden pea (Pisum sativum L.). *Ann. Bot.* 35: 809-823.
- ✓ Gururaj, Rao, G., Mallikarjuna, K. and Gopala Rao, P. 1980. Physiological changes in early seedling growth of green gram (Phaseolus radiatus) under NaCl salinity. *Ind. J. Exp. Biol.* 18(3): 320-322.
- ✓ Haleem, S.A. 1978. Studies on effects of different methods of application of nitrogen and use of growth regulators on growth and yield of Solanum khasianum Clarke. Thesis abstracts. Univ. of Agric. Sci. Bangalore, 1978.
- ✓ Halevy, A.H. and Kessler, B. 1963. Increased tolerance of bean plants to soil drought by means of growth-retarding substances. *Nature*, 197: 310-311.
- ✓ Halevy, A.H., Monseliac, S.P. and Plant, Z. 1964. Effect of gibberellin on translocation and on dry matter and water content in several plant species. *Physiol. Plant.* 17: 49-62.
- ✓ Hardie, D.G. 1975. Control of carbohydrase formation by gibberellic acid in barley endosperm. *Phytochem.* 14: 1719-1722.

- ✓ Harvey, B.M.R. and Oaks, A. 1974. Characteristics of an acid protease from maize endosperm. *Plant Physiol.* 53: 449-452.
- ✓ Hasson-Porath, E. and Poljakoff-Mayber, A. 1969. Effect of salinity on the malic dehydrogenase of pea roots. *Plant Physiol.* 44: 1031-1034.
- ✓ Hayashi, T. 1940. Bull. Agric. Chem. Soc. Japan 16: 531-538 as quoted by Paleg, L.G. 1965. Physiological effects of gibberellins. *Ann. Rev. Plant Physiol.* 16: 291-322.
- ✓ Hegazi, A.M. and Kausch, W. 1978. The interaction between salinity and (2-chloroethyl) trimethyl ammonium chloride (CCC) on salt tolerance in maize. *Z. Pflanzenphysiol.* 88(1): 39-46.
- ✓ Imbamba, S.K. 1973. Response of cowpeas to salinity and (2-chloroethyl) trimethyl ammonium chloride (CCC). *Physiol. Plant.* 28(2): 346-349.
- ✓ Ingle, J. and Hageman, R.H. 1965. Metabolic changes associated with the germination of corn. III. Effects of gibberellic acid on endosperm metabolism. *Plant Physiol.* 40(4): 672-675.
- ✓ Jacobsen, J.V. and Varner, J.E. 1967. Gibberellic acid-induced synthesis of protease by isolated aleurone layers of barley. *Plant Physiol.* 42: 1596-1600.

✓ Jarvis, B.C., Frankland, B. and Cherry, J.H. 1968 a.

Increased DNA template and RNA polymerase associated with the breaking of seed dormancy. *Plant Physiol.* 43: 1734-1736.

✓ Jarvis, B.C., Frankland, B. and Cherry, J.H. 1968 b.

Increased nucleic acid synthesis in relation to the breaking of dormancy of hazel seed by gibberellic acid. *Planta* 83: 257-266.

✓ Joshi, G.V. 1976. Final Report on the PL-480 Project entitled "Studies on photosynthesis under saline conditions".

pp. 25-26.

✓ Joshi, G., Dolan, T., Gee, R. and Saltman 1962. Sodium chloride effect on dark fixation of  $\text{CO}_2$  by marine and terrestrial plants. *Plant. Physiol.* 37: 446-449.

✓ Kahn, A., Gross, J.A. and Smith, D.E. 1957. Effect of gibberellin on germination of lettuce seed. *Science* 125: 645-646.

✓ Kamalavalli, D. 1969. The effect of gibberellic acid on Sorghum (Sorghum vulgare Pers.). Ph. D. Thesis, The M. S. University of Baroda, Baroda, India.

✓ Karami, E. 1974. Emergence of nine varieties of sunflower (Helianthus annuus L.) in salinized soil cultures. *J. Agric. Sci. Camb.* 83: 359-362.

Kathju, S. and Tewari, M.N. 1970. Effect of CCC on growth and phosphatase activity. Ind. J. Exp. Biol. 8: 232-233.

✓ Kathju, S., Tewari, M.N. and Chatterji, U.N. 1971. Study of the effect of gibberellic acid and cycocel on the activity of phosphatases. Z. Pflanzenphysiol. 64: 169-174.

✓ Katayama, Nobuyasu and Hiroshi, Suzuki. 1980. Possible effect of gibberellin on phytate degradation in germinating barley seeds (Hordeum vulgare cv. Ehine-hadaki No. 1). Plant Cell Physiol. 21(1): 115-124.

✓ Kawasaki, H. and Takada, H. 1978. Requirement of sodium chloride for the action of gibberellic acid in stimulating hypocotyl elongation of a halophyte. Plant Cell Physiol. 19(8): 1415-1426.

✓ Key, J.L. 1969. Hormones and nucleic acid metabolism. Ann. Rev. Pl. Physiol. 20: 449-473.

✓ Khan, M.I. and Begum, F. 1972. Effects of salts on phosphomonoesterase of wheat seedlings. Pak. J. Biochem. 5: 15-18.

Khan, A.A. 1975. Primary, preventive and permissive roles of hormones in plant systems. Bot. Rev. 41(4): 391-420.

- ✓ Khan, A.A. and Tao, K.L. 1977. As quoted in "The Physiology and Biochemistry of Seed Dormancy and Germination".  
ed. Khan, A.A. 1977. p. 425. North-Holland Publishing Co., Amsterdam.
- ✓ Klyin, A. and Quantrano, R.S. 1975. Metabolic and Biochemical aspects of salt-tolerance. pp. 147-167. in "Plants in Saline Environments". Poljakoff-Mayber, A. and Gale, J. (ed.). Springer-Verlag, Berlin, Heidelberg, Publication.
- ✓ Korkor, S.A. and Abdel, R.M. 1974. Effect of total salinity and type of salts on rice crop. Agric. Res. Rev. (Cairo) 52(5): 73-78.
- ✓ Koroleva, R.O. 1964. Growth stimulators increase corn yield and improve its quality. Zap. Leningr. Sel'skokhoz. Inst. 98(1): 36-43.
- ✓ Kudinov, M.A. 1967. Effect of succinic acid on germination of seeds. Byull. Gl. Bot. Sada. No. 66: 74-76.
- ✓ Lagutina, A.I. 1966. Treatment of Siberian larch seeds with chemical reagents. Vestn. Sel'skokhoz. Nauki (Alma-Ata) 9(8): 66-68.
- Lall, S.B. and Sakhare, R.S. 1970. Salt tolerance in jowar. Botanique (Nagpur) 1(1): 23-28.

- ✓ Lang, A. 1965. Effects of some internal and external conditions on seed germination. In: Encyclopedia of Plant Physiology. Ruhland W. (ed.) Berlin : Springer 1965. Vol. 15(2): 848-893.
- ✓ Levitt, J. 1972. Responses of plants to environmental stresses. Academic Press, New York. p. 732.
- ✓ Lowry, O.H., Rosenborough, N.J., Farr, A.L. and Randall, R.J. 1951. Protein measurement with Folin-phenol reagent. *J. Biol. Chem.* 193: 265-275.
- ✓ Mac-Leod, A.M., Duffus, J. and Johnstone, C.S. 1964. Development of hydrolytic enzymes in germinating grains. *J. Inst. Brew.* 70: 521-528.
- ✓ Maliwal, G.L. and Paliwal, K.V. 1967. Salt tolerance studies on some varieties of wheat (*T. aestivum*) and barley (*H. vulgare*) at germination stage. *Ind. J. Plant Physiol.* 10(1): 26.
- ✓ Mc-Cready, R.M., Jack Guggolz, Vernon Silviera and Owens, H.S. 1950. Determination of starch and amylase in vegetables. Application to peas. *Anal. Chem.* 22(9): 1156-1158.
- ✓ Mandal, N.C. and Biswas, B.B. 1970. Metabolism of inositol phosphates. I. Phytase synthesis during germination in

- cotyledons of mung beans, Phaseolus aureus. Plant Physiol. 45: 4-7.
- ✓ Marcus, A. 1971. Enzyme induction in plants. Ann. Rev. Plant Physiol. 22: 313-336.
- ✓ Maurina, H., Ezerniece, L. and Turjane, B. 1969. Use of succinic acid to increase plant productivity. Khim. Regul. Rosta Razv. Rast. 13-27. ed. Ozols, A. Izd. "Zinatne": Riga U.S.S.R.
- ✓ Mayer, A.M. 1958. The breakdown of phytin and phytase activity in germinating lettuce seed. Enzymologia 19: 1-8.
- ✓ Mayer, A.M. 1977. Metabolic control of germination. in 'The Physiology and Biochemistry of Seed Dormancy and Germination'. (ed.) Khan, A.A. North-Holland Publishing Co., Amsterdam. p. 380.
- ✓ Miyamoto, T. 1962. Antagonistic effect of urea and 2-chloro-ethanol on the resistance to high salt concentration in wheat seedlings. Nature (Lond.) 196: 491-492.
- ✓ Mizrahi, Y., Bluemenfeld, A. and Richmond, A.E. 1972. The role of abscissic acid and salinization in the adaptive response of plants to reduced aeration. Plant and Cell Physiol. 13: 15-21.

- ✓ Mukherji, S., Dey, B., Paul, A.K. and Sircar, S.M. 1971. Changes in phosphorus fractions and phytase activity of rice seeds during germination. *Physiol. Plant.* 25: 94-97.
- ✓ Naquibi, S.M., Ansari, R. and Ansari, A.Q. 1970. Effect of (2-chloroethyl) trimethyl ammonium chloride (CCC) on increasing salt tolerance in wheat. *J. Exp. Bot.* 21(68): 712-713.
- ✓ Naqvi, A.R. and Azmi, A.R.M. 1977. Effect of salinity on germination, seedling growth and  $\alpha$ -amylase activity in wheat. *Pak. J. Bot.* 9(2): 163-166.
- ✓ Nieman, R.H. and Bernstein, L. 1959. Interactive effects of gibberellic acid and salinity on the growth of beans. *Am. J. Bot.* 46(9): 667-670.
- ✓ Nieman, R.H. 1962. Some effects of sodium chloride on growth, photosynthesis and respiration of twelve crop plants. *Bot. Gaz.* 123: 279-285.
- ✓ Nieman, R.H. 1965. Expansion of bean leaves and its suppression by salinity. *Plant Physiol.* 40(1):156-161.
- ✓ Odegbaro, O.A. and Smith, O.E. 1969. Effect of kinetin, salt concentration and temperature on germination and early seedling growth of Lactuca sativa L. *J. Am. Soc. Hort. Sci.* 94: 167-170.

- ✓ O'Leary, J.W. 1971. Physiological basis for plant growth inhibition due to salinity. In: "Food, Fiber and the Arid Lands". The University of Arizona Press, Tucson, Ariz.
- ✓ Paleg, L.G. 1960 a. Physiological effects of gibberellic acid. I. on carbohydrate metabolism and amylase activity of barley endosperm. *Plant Physiol.* 35: 293-299.
- ✓ Paleg, L.G. 1960 b. Physiological effects of gibberellic acid. II. on starch hydrolyzing enzymes of barley endosperm. *Plant Physiol.* 35: 902-906.
- ✓ Paleg, L.G., Coombe, B.G. and Buttrose 1962. Physiological effects of gibberellic acid. V. endosperm responses of barley, wheat and oats. *Plant Physiol.* 37(6):798-803.
- ✓ Peers, F.G. 1953. The phytase of wheat. *Biochem. J.* 53: 102-110.
- ✓ Plaut, Z. 1974. Nitrate reductase activity of wheat seedlings during exposure of and recovery from water stress and salinity. *Physiol. Plant.* 30: 212-217.
- ✓ Poljakoff-Mayber, A. and Gale, J. 1975. Plants in saline environments. (ed.) Poljakoff-Mayber, A. and Gale, J. Springer-Verlag, Berlin, Heidelberg Publication.

- ✓ Pollard, C.J. 1969. A survey of the sequence of some effects of gibberellic acid in the metabolism of cereal grains. *Plant Physiol.* 44: 1227-1232.
- ✓ Porath, E. and Poljakoff-Mayber, A. 1964. Effect of salinity on metabolic pathways in pea root tips. *Israel J. Bot.* 13: 115-121.
- ✓ Porath, E. and Poljakoff-Mayber, A. 1968. The effect of salinity in the growth medium on carbohydrate metabolism in pea root tips. *Plant Cell Physiol.* 9: 195-203.
- ✓ Prathapasesan, G. 1970. Studies on the effect of gibberellic acid on cotton (*Gossypium herbaceum* L. Var. Digvijay). Ph. D. Thesis. The M.S. University of Baroda, Baroda, India.
- ✓ Prisco, J.T. and O'Leary, J.W. 1973. The effect of humidity and cytokinin on growth and water relations of salt stressed bean plants. *Plant and Soil* 39: 263-276.
- ✓ Prisco, J.T. and Gustavo, H.F.V. 1976. Effect of NaCl salinity on nitrogenous compounds and proteases during germination of *Vigna sinensis* seeds. *Physiol. Plant.* 36(4): 317-320.

- ✓ Rai, K.V. and Laloraya, M.H. 1965. Correlative studies on plant growth and metabolism. I. Changes in protein and soluble nitrogen accompanying gibberellin-induced growth in lettuce seedlings. *Plant Physiol.* 40: 437-441.
- ✓ Ramana, K.V.R. and Rama Das, V.S. 1978. Physiological studies on the influence of salinity and alkalinity. I. Changes in growth, respiration, carbohydrates and fats during seedling growth of radish (Raphanus sativus L.). *Ind. J. Pl. Physiol.* 21: 93-105.
- ✓ Ramesh, B.V. and Sunil, K. 1979. Seed germination and early seedling growth of Cicer arietinum Linn. cv. C-235, Cajanus cajan Spreng. cv. Pusa agati, Phaseolus aureus, Ham. cv. S-8 and Phaseolus mungo Linn. cv. P-1 under growth regulator and salinity-stressed conditions. *The Jr. of the Ind. Bot. Soc.* 58(2): 140-148.
- ✓ Rao, T.S., Purnapragnachar, H. and Hadimani, A.S. 1969. Effect of soil salinity on the germination of paddy varieties. *Jr. of Ind. Soc. Soil Sci.* 17(4): 431-435.
- ✓ Rauser, W.E. and Hanson, J.B. 1966. The metabolic status of RNA in soybean roots exposed to saline media. *Can. J. Bot.* 44: 759-776.

- ✓ Richards, L.A. 1954. Diagnosis and improvement of saline and alkali soils. Agric. Handbook, U.S. Dept. Agri.60.
- ✓ Rizk, T.Y., Al-Hasan, A.M. and Alawi, B.J. 1978. Effect of salinity on germination and seedling vigor of some annual medics Medicago spp. Mesopotamia J. Agric. 13(2): 105-122.
- ✓ Roswell, E.V. and Goad, L.J. 1964. Some effects of gibberellin acid on wheat endosperm. Proc. of the Biochemical Society held at Univ. of Leicester, 1963. In: Biochem. J. 90 - 11 p.
- ✓ Sarin, M.N. 1961. Physiological studies on salt tolerance in crop plants. XIV. Further studies on the effect of  $\text{Na}_2\text{SO}_4$  on respiration of wheat and gram seedlings. Ind. J. Plant Physiol. 4(1): 38
- ✓ Sarin, M.N. 1962. Physiological studies on salt tolerance of crop plants. V. Use of IAA to overcome depressing effect of sodium sulphate on growth and maturity of wheat. Agra Univ. J. Res. Sci. 11: 187-196.
- ✓ Sarin, M.N. and Narayanan, A. 1968. Effects of soil salinity and growth regulators on germination and seedling metabolism of wheat. Physiol. Plant. 21(6): 1201-1209.
- ✓ Sheoran, I.S. 1975. Effect of salinity on some important aspects of Plant metabolism. Ph.D. Thesis, H.S.U.Hissar.

- ✓ Sheoran, I.S. and Garg, O.P. 1978 a. Chloride and sulphate salinity on germination and early seedling growth of mung bean. *Acta Bot. Ind.* 6(2): suppl. 84-89.
- ✓ Sheoran, I.S. and Garg, O.P. 1978 b. Effect of salinity on the activities of RNase, DNase, and protease during germination and early seedling growth of mung bean. *Physiol. Plant.* 46: 147-150.
- ✓ Sheoran, I.S. and Sihag, R.K. 1978. Effect of salt and water on RNA synthesis in the excised embryo axis of germinating mung bean. *Biol. Plant.* 20: 392-395.
- ✓ Shevchenko, A.V. 1967. Preplanting treatment of potato tubers with growth stimulants. *Vop. Rastenievod.* - 100-109. Edited by Ryadnova, I.M. Krasnodr. Gos. Pedagog. Inst.: Krasnodar, U.S.S.R.
- ✓ Shrivastava, M.S., Sharma, S.M. and Singh, S.P. 1965. Note on the effect of cycocel on growth and yield of wheat. *Ind. J. Agron.* 13: 192-194.
- Simpson, G.M. and Naylor, J.M. 1962. Dormancy studies in seed of Avena fatua. 3. A relationship between maltase, amylase and gibberellin. *Can. J. Bot.* 40: 1659-1673.
- ✓ Singh, N.P. and Dastane, N.G. 1970. Note on salt tolerance of new wheat strains during germination. *Ind. J. Agron.* 15(1):

- ✓ Siuliauskas, A. 1967. Effect of succinic acid on the germination of barley and lupine seeds. Nauji Laimejimai Biol. Biochem., Liet. TSR Jaunuju Mokslininku-Biol. Biochem. Moksline Konf (Lithuanian) 110-113.
- ✓ Spices, J.R. 1957. Colorimetric procedure for amino acid I. Phenol reagent method. Methods in Enzymol. III 76: 467. ed. by Colowick, S.P. and Kaplan, N.O. Published by Academic Press, Ind. New York.
- ✓ Srinivasulu, K. and Murty, K.S. 1967. Efficiency of different chemicals and methods in breaking dormancy in rice seed. Ind. J. Plant Physiol. 10(2): 139.
- ✓ Srivastava, B.I.S. 1964. The effect of GA<sub>3</sub> on ribonuclease and phytase activity of germinating barley seeds. Can. J. Bot. 42(9): 1303-1305.
- ✓ Stewart, C.R., Boggess, S.F., Aspinall, D. and Paleg, L.G. 1976. Inhibition of proline oxidation by water stress. Plant Physiol. 59: 930-932.
- ✓ Stokes, P. 1965. Temperature and seed dormancy. Encyclop. Plant Physiol. 15(2): 746-803.
- ✓ Storey, R. and Jones, R.G.W. 1977. Quaternary ammonium compounds in plants in relation to salt resistance. Phytochem. 16(4): 447-453.

- ✓ Strogonov, B.P. 1962. Physiological bases of salt tolerance in plants. Akademia Nauk SSSR, Moskva.
- ✓ Strogonov, B.P. 1964. Physiological bases of salt tolerance of plants. Israel Prog. Sci. Translation, Jerusalem. p. 279.
- ✓ Tao, K.L. and Khan, A.A. 1977. Hormonal regulation of nucleic acid and proteins. in "The Physiology and Biochemistry of Seed Dormancy and Germination. (ed.) Khan, A.A. North-Holland Publishing Company, Amsterdam. p. 427.
- ✓ Tazul, I.M. and Muhsin, A.A.A. 1973. Effect of cycocel on the growth and development of rice. Ind. J. Agric. Sci. 43(6): 542-545.
- ✓ Thomas, T.H. 1973. in Seed Ecology (ed.) Heydecker, W. Proc. of the 19th Easter School in Agric. Sci. Univ. of Nottingham. 1972. p. 524.
- ✓ Twersky, M. and Fehlender, R. 1973. Effect of water quality on relationships between cationic species and leaf lipids at two development stages in cotton. Physiol. Plant. 29: 396-401.
- ✓ Umbreit, W.W., Burris, R.H. and Stauffer, I.F. 1959. Manometric Techniques. Burgess Publishing Co., Minneapolis.

- ✓ Ungar, I.A. 1977. Salinity, temperature, and growth regulator effects on seed germination of Salicornia europaea L. Aquatic Botany 3: 329-335.
- ✓ Ungar, I.A. 1978. Halophyte seed germination. The Bot. Rev. 44(2): 233-264.
- ✓ Ungar, I.A. and Binet, P. 1975. Factors influencing seed dormancy in Spergularia media (L.). C. Presl. Aquatic. Bot. 1: 45-55.
- ✓ Ungar, I.A. and Boucaud, J. 1975. Action des fortes teneurs en NaCl sur l'évolution des cytokinines au cours de la germination d'un halophyte : le Suaeda maritima (L.) Dum. var. macrocarpa. Moq. C.R. Acad. Sci. Paris 281: 1239-1242.
- ✓ Upadhyay, D.C. and Sarin, M.N. 1973. Studies on salt tolerance in pea. 1. Germination and seedling growth. Ind. J. Agron. 18(3): 302-306.
- ✓ Vaadia, Y., Raney, F.C. and Hagan, R.M. 1961. Plant water deficits and physiological processes. Ann. Rev. Plant Physiol. 12: 265-292.
- ✓ Varshney, K.A. 1980. Growth and development of two differentially salinized Guar varieties under the influence of some hormones. Ind. J. Plant Physiol. 23(2): 199-205.

- ✓ Villiers, T.A. 1972. In Seed Biology ( Kozlowski, T.T. ed.) Vol. II. pp. 220-281. Academic Press, New York and London.
- ✓ Vora, A.B., Dehal, K.S. and Vyas, A.V. 1975. Effect of gibberellic acid pretreatment on carbohydrate metabolism during juvenile differentiation of Bajra seedling under water stress. Ind. J. Plant Physiol. 18(2): 154-158.
- ✓ Waisel, Y. 1972. Biology of halophytes. Academic Press, New York. p. 395.
- ✓ Weimberg, R. 1967. Effect of sodium chloride on the activity of a soluble malate dehydrogenase from pea seeds. J. Biol. Chem. 242: 3000-3006.
- ✓ Weimberg, R. 1970. Enzyme levels in pea seedlings grown on highly salinized media. Plant Physiol. 46: 466-470.
- ✓ Weimberg, R. 1975. Effect of growth in highly salinized media on enzymes of the photosynthetic apparatus in pea seedlings. Plant Physiol. 56: 8-12.
- ✓ Yemm, E.W. and Willis, A.J. 1954. The estimation of carbohydrates in plant extracts by Anthrone. Biochem. Jr. 57(2): 508-514.

\*\*\*\*\*