

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

BIBLIOGRAPHY

- Abel, G.H. and A.J. Mackenzie. 1964. Salt tolerance of soybean varieties (Glycine max L. Merrill) during germination and later growth. Crop Sci. 4: 157-161.
- Abichandani, C.T. and P.N.Bhatt. 1965. Salt tolerance at germination of bajra and jowar varieties. Ann. Arid zone 4: 36-42.
- Acevedo, D., E. Fereres, T.C. Hsiao and D.W. Henderson. 1979. Diurnal growth trends, water potential and osmotic adjustment of maize and sorghum leaves in the field. Plant Physiol. 64: 476-480.
- Aleshin, E.P., G.S. Krasnikova and N.S. Tur. 1978. Effect of chloride salinization and respiration intensity of different rice cultivars in ontogenesis. Fiziol Biokhim Kul't Rast 10(2): 161-165.
- Ali Qadar, Y.C., Joshi, A.R. Bal and R.S. Rana. 1980. Chemical treatments to enhance cereal production in salt affected soils. Intern. Symp. Salt-Affected Soils, Karnal, India, 468-471.
- Ansari, R., S.M. Naqui and A.R. Azmi. 1977. Effect of salinity on germination, seedling growth and α -amylase activity in wheat. Pak. J. Bot. 9(2): 163-166.

- 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. Nouch. Rab. Aspir. Voronezh. Gos. Univ. No. 4*: 209-213.
- Asana, R.D. and V.R. Kale. 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.
- Balsubrahmanian, C. and S.K. Sinha. 1976. Effect of salt stress on growth, nodulation and nitrogen fixation in cowpea and mung bean. *Physiol. Plant.* 36(2): 197.
- Benner. 1978. In "Halophyte seed germination" by Ungar, I.A. *Bot. Rev.* 44(2): 252, 1978.
- Bernfeld, P. 1955. Amylases, α and β . *Methods in Enzymology* Vol. 1: 149-155.
- Bernstein, L. and H.A. Hayward. 1958. Physiology of salt tolerance. *Ann. Rev. Plant Physiol.* 9: 25-46.
- Bharadwaj, S.N. and I.M. Rao 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): 56-71.
- Black, H.S. and A.M. Altschul. 1965. Gibberellic acid-induced lipase and α -amylase formation and their inhibition by aflatoxins. Biochem. Biophys. Res. Commun. 19(5): 661-664.
- Blagoveshchenshii, A.V. and R.R. Rakhmanov. 1964. Pre-planting stimulation of cotton seeds with succinic acid. Kholpkovodstvo 14(2): 23-24.
- Boucaud, J. and I. A. Ungar. 1976. Hormonal control of germination under saline conditions of three halophytic taxa in the genus Suaeda. Physiol. Plant. 37(2): 143-148.
- Boyer, S.J. 1965. Effects of water stress on metabolic rates of cotton plants with open stomata. Plant Physiol. 40: 229-234.
- Bozcuk, S. 1981. Effect of kinetin and salinity on germination of tomato, barley and cotton seeds. Ann. Bot. 48: 81-84.
- Briggs, D.E. 1963. Biochemistry of barley germination. Action of Gibberellic acid on barley endosperm. J. Inst. Brew. 69: 13-19.

- Brown, A.P. and J.L. Wray. 1968. Correlated changes of some enzyme activities and cofactor and substrate contents of pea cotyledon tissue during germination. *Biochem. J.* 103: 230-237.
- Brown, H.D. and A.M. Altschul. 1964. Glycoside-sensitive ATPase from *Arachis hypogaea*. *Biochem. Biophys. Res. Commun.* 15: 479-483.
- Bunce, J.A. 1977. Leaf elongation in relation to leaf water potential in soybean. *J. Exp. Bot.* 28: 156-161.
- Chaudhuri, I.I. and H.H. Wiebe. 1968. Influence of calcium pretreatment on wheat germination on saline media. *Plant and Soil* 28(2): 208-216.
- Chrispeels, M.J. and J.E. Varner. 1967. Gibberellic acid enhanced synthesis and release of α -amylase and ribonuclease by isolated barley aleurone layers. *Plant Physiol.* 42: 398-406.
- Chu, T.M., D. Aspinall and L.G. Paleg. 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., D. Aspinall and L.G. Paleg. 1976. Stress metabolism. VII. Salinity and proline accumulation in barley. *Aust. J. Plant Physiol.* 3: 219-228.

- Cohen, B.S., Y. Leshem and A. Pinsky. 1969. Gibberellin and protease activity in Medicago sativa. PPhysiol. Plant. 22: 37-42.
- Curtis, E.J.C. and E.J.Cantlon. 1965. Studies of the germination process in Melampyrum lineare. Amer. J. Bot. 52: 552-555.
- 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.
- Davis, B.J. 1964. Disc electrophoresis. II. Method and application to human serum proteins. Annals of the New York Academy of Sciences 121: 404-427.
- Dixit, U.K., R.N. Lal. 1971. Effect of different salinity levels on the germination and mineral nutrition of Paddy variety IR 8. Proc. All Ind. Symp. Soil Salinity Kanpur 209-211.
- Drozдов, N.A. and R.F. Babuk. 1968. Succinic acid as a growth promoter for cereals. Sel'skokhoz. Biol. 3(1): 152-153.
- Edelman, J. and M.A. Hall. 1964. Effect of growth hormones on the development of invertase associated with cell walls. Nature 201 (4916): 296-297.

- Edwards, M. 1976. Dormancy in seeds of charlock (Sinapis arvensis L.). Early effects of gibberellic acid on the synthesis of amino acids and proteins. Plant Physiol. 58: 626-630.
- El Fouly, M.M. and J. Jung. 1972. Enzyme activity in wheat seedlings grown under different NaCl salinity levels and their interactions with growth regulators. Biochem. Physiol. Pflanz. 163: 492-498.
- Erdei, L. and P.J.C. Kuiper. 1979. The effect of salinity on growth, cation content, Na⁺-uptake and translocation in salt-sensitive and salt-tolerant Plantago species. Physiol. Plant. 47: 95-99.
- Ergle, R.D. and G. Guinn. 1959. Phosphorus compounds of cotton embryos and their changes during germination. Plant Physiol. 34: 476-481.
- Evins, W.H. 1971. Enhancement of polyribosome formation and induction of tryptophan-rich proteins by gibberellic acid. Biochemistry. 10: 4295-4303.
- Fiske, C.H. and Y. Subbarow. 1925. The colorimetric determination of phosphorus. J. Biol. Chem. 66: 375-400.
- Flowers, T.J. 1972 a. Salt tolerance in Suaeda maritima (L.) Dum. The effect of sodium chloride on growth, respiration,

- and soluble enzymes in a comparative study with *pisum sativum* L. J. Expt. Bot. 23(75): 310-321.
- Flowers, T.J. 1972 b. The effect of sodium chloride on enzyme activities from four halophyte species of *Chenopodiaceae*. *Phytochemistry* 11: 1881-1886.
- Flowers, T.J. and J.L. Hall. 1978. Salt tolerance in the halophyte, *Suaeda maritima* (L.) Dum : the influence of the salinity of the culture solution on the content of various organic compounds. *Ann. Bot.* 42: 1057-1063.
- Flowers, T.J., P.F. Troke and A.R. Yeo. 1977. The mechanism of salt tolerance in halophytes. *Ann. Rev. Plant Physiol.* 28: 89-121.
- Gale, J. 1975. Water Balance and Gas Exchange of plants under saline conditions. 'Plants in Saline Environment' 168-185. Ed. Poljakoff-Mayber, A. and Gale J. 1975. Springer-Verlag, Berlin, Heidelberg Publication.
- Gertsuskii, D.F. 1959. Effect of some trace elements and stimulators on the growth, development and crop of *Zea mays*. *Doklady Vsesoyus. Akad. Sel'skokhoz. Naukim.* V.I. Lenina 24(5): 17-20.
- Goas, M. 1965. Sur le métabolisme azote des halophytes : Études des acides amines et amides libres. *Soc. Franc. Physiol. Végét. Bull.* 11: 309-316. Quoted from

'Plants in Saline Environments' Ed. Poljakoff-Mayber, A. and J. Gale. p. 158, 1975. Springer-Verlag, Berlin, Heidelberg, New York.

Goas, M. 1967. Contribution à l'étude du métabolisme azote des halophytes : Acides amines et amides libres d'Aster tripolium L. en aquiculture. C.R. Séances Acad. Sci. (Paris) Ser. D 265: 1049-1052. Quoted from 'Plants in Saline Environments' Ed. Poljakoff-Mayber, A. and J. Gale. p. 158, 1975. Springer-Verlag, Berlin, Heidelberg, New York.

Goyal, A.K. and B.D. Bajjal. 1979. Genetic diversity of protease activity in some rice varieties in relation to gibberellic acid. Comp. Physiol. Ecol. 4(4): 251-253. ✓

Greenway, H. 1973. Salinity, plant growth and metabolism. J. Aust. Ins. Agric. Sci. 39: 24-34.

Greenway, H. and R. Munns. 1980. Mechanism of salt tolerance in nonhalophytes. Ann. Rev. Pl. Physiol. 31: 149-190.

Greenway, H. and C.B. Osmond. 1972. Salt response of enzymes from species differing in salt tolerance. Pl. Physiol. 49: 256-259.

Guardiola, J.L. and J.E. Sutcliffe. 1971. Mobilization of phosphorus in the cotyledons of young seedlings of the garden pea (Pisum sativum L.). Ann. Bot. 35: 809-823.

- Gururaja, G., K. Mallikarjuna, P. Gopala Rao and Rajeswara Rao. 1980. Physiological changes in early seedling growth of green gram (Phaseolus radiatus L.) under NaCl salinity. Ind. J. Exp. Biol. 18(3): 320-322.
- Halevy, A.H. 1964. Effects of gibberellin and growth retarding chemicals on respiration and catalase activity in various organs of cucumber seedlings. J. Exp. Bot., 15: 546-555.
- Halevy, A.H., S.P.Manselias and Z. Plant. 1964. Effect of gibberellin on translocation and on dry matter and water content in several plant species. Physiol. Plant. 17: 49-62.
- Harvey, B.M.R. and A. Oaks. 1974. Characteristics of an acid protease from maize endosperm. Plant Physiol. 53: 449-452.
- Hasson-Porath, E. and A. Poljakoff-Mayber. 1964. Effects of salinity on metabolic pathways in pea root tips. Israel J. Botany 13: 115-121.
- Hasson-Porath, E. and A. Poljakoff-Mayber. 1969. Effect of salinity on the malic dehydrogenase of pea roots. Plant Physiol. 44: 1031-1034.
- Hasson-Porath, E. and A. Poljakoff-Mayber. 1980/'81. Germination of pea seeds exposed to saline stress. Israel J. of Botany 29: 98-104.

- Hawk, P.B., B.L. Oser and W. Summerson. 1954. 'Practical Physiological Chemistry. pp. 573-575. 13th edition. McGraw Hill Book Co. Inc., London.
- Hawker, J.S. and D.M. Bungey. 1976. Isocitrate lyase in germinating seeds of Prunus dulcis. Phytochemistry, 15: 79-81.
- Hayashi, T. 1940. Bull. Agric. Chem. Soc. Japan 16: 531-538; as quoted by Paleg, L.G. Physiological effects of gibberellins. Ann. Rev. Plant Physiol. 16: 291-322, 1965.
- Hayward, H.E. and E.M. Long. 1943. Some effects of sodium salts on the growth of the tomato. Plant Physiol. 18: 558-559. ✓
- Hellal, M., K. Kock and K. Mengel. 1975. Effect of salinity and potassium on the uptake of nitrogen and nitrogen metabolism in young barley plants. Physiol. Plant. 35: 310-313.
- Hellebust, J.A. 1976. Osmoregulation. Ann. Rev. Plant Physiol. 27: 485-505.
- Heydecker, W. 1973. Seed Ecology. Proceedings of the 19th easter school in agricultural science. University of Nottingham, 1972. Publ. by Butterworths, London.
- Ho, D.T.H. and J.E. Varner. 1974. Proc. Nat. Acad. Sci. USA.

71: 4783. Quoted from 'Gibberellin metabolism and regulation of α -amylase isozymes in higher plants' by Machaiah, J.P. and U.K. Vakil. Jr. Ind. Inst. Sci. 61(C): 73-95, 1979.

Holden, M. 1951. The fractionation and enzymic breakdown of some phosphorus compounds in leaf tissue. Biochem. J. 51: 433-442.

Hyder, S.Z. and H. Greenway. 1965. Effects of Ca^{++} on plant sensitivity to high NaCl concentrations. Plant and Soil, 23: 258-260.

Ingle, J. and R.H. Hageman. 1965. Metabolic changes associated with the germination of corn. III. Effects of gibberellic acid on endosperm metabolism. Plant Physiol. 40(4): 672-675.

Itai, C., A. Richmond, and Y. Vaddia. 1968. The role of root cytokinins during water and salinity stress. Israel J. Bot. 17: 187-195.

Jacobsen, J.V. 1977. Regulation of Ribonucleic acid metabolism by plant hormones. Ann. Rev. Plant Physiol. 28: 537-564.

Jacobsen, J.V., J.C. Scandalios and J.E. Varner. 1970. Multiple forms of amylase induced by gibberellic acid in isolated barley aleurone layers. Plant Physiol. 45: 367-371.

- Jacoby, B. 1964. Function of bean roots and stems in sodium retention. *Plant Physiol.* 39: 445-449.
- Jacoby, B. 1965. Sodium retention in excised bean stems. *Physiol. Plant.* 18: 730-739.
- Jarvis, B.C., B. Frankland and J.H.Cherry. 1968. Increased nucleic acid synthesis in relation to the breaking of dormancy of hazel seed by gibberellic acid. *Planta* 83: 257-266.
- Jennings, D.H. 1976. The effect of sodium chloride on higher plants. *Biol. Rev.* 51: 453-486.
- Jeschke, W.D. and W. Stelter. 1976. Measurement of longitudinal ion profiles in single roots of Hordeum and Artiplex by use of flameless atomic absorption spectroscopy. *Planta* 128: 107-112.
- Johnson, D.A. 1978. *Crop Science* 18: 945-948. Quoted from 'Biochemical and physiological responses of higher plants to salinity stress', by A. Poljakoff-Mayber, 1982. Published in 'Biosaline Research- A look to the future'. Ed. Anthony San Pietro Plenus Press, New York.
- Jones, R.L. 1973. Gibberellins : their physiological role. *Ann. Rev. Pl. Physiol.* 24: 571-598.
- Joshi, G.V. 1976. Final Report on the PL-480 Project

entitled "Studies on photosynthesis under saline conditions". pp. 25-26.

Kachapur, M.D., V.P. Badanur. 1977. Effect of salinity on the germination of niger (Guizotia abyssinica Cass.) varieties. Current Research 6(1): 187.

Kaddah, M.T. 1963. Salinity effects on growth of rice at the seedling and inflorescence stages of development. Soil Sci. 96(2): 105-111.

Kahane, I., A. Poljakoff-Mayber. 1968. Effect of substrate salinity on the ability for protein synthesis in pea roots. Plant Physiol. 43: 1115-1119.

Kalir, A. and A. Poljakoff-Mayber. 1975. Malic dehydrogenase from Tamarix roots. Effects of sodium chloride in vivo and in vitro. Plant Physiol. 55: 155-162.

Kamalavalli, D. 1969. The effect of gibberellic acid on sorghum (Sorghum vulgare Pers.). Ph. D. Thesis. The M.S. Univ. 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., M.N. Tewari and U.N. Chatterji. 1971. Study of the effect of gibberellic acid and cycocel on the activity of phosphatases. Z. Pflanzenphysiol. 64: 169-174.

- Kato, J. 1956. Effect of gibberellin on elongation, water uptake, and respiration of pea stem sections. Science 123: 1132.
- Kaur, P., U.S. Gupta. 1970. Studies on the effects of 3 sodium salts on germination, early growth and physiology of Pisum sativum L. cv. T163 and Perfection. J. Res. Ludhiana, 7: 321-327.
- Kawasaki, H. and H. Takada. 1978. Requirement of sodium chloride for the action of gibberellic acid on stimulating hypocotyl elongation of a halophyte. Plant Cell Physiol. 19(8): 1415-1426.
- Khan, A.A. 1977. The physiology and biochemistry of seed dormancy and germination. North-Holland Publishing Company. Amsterdam. New York. Oxford.
- Khan, A.A., J.A. Goss, and D.E. Smith. 1957. Effect of gibberellin on germination of lettuce seed. Science 125: 645-646.
- Khan, A.A. and K.L. Tao. 1977. In: Plant hormones and related compounds (D.S. Letham, P.B. Goodwin and T.J.V. Higgins, eds.), North-Holland Publ. Co., Amsterdam. Quoted from 'The physiology and biochemistry of seed dormancy and germination. Ed. by Khan, A.A. 1977.

- Khan, M.I. and F. Begum. 1972. Effects of salts on phospho-monoesterase of wheat seedlings. Pak. J. Biochem. 5: 15-18.
- Kirham, M.B., W.R. Gardener and G.C. Gerloff. 1969. Leaf water potential of differentially salinized plants. Plant Physiol. 44(10): 1378-1382.
- Korkor, S.A. and R.M. Abdel-Aal. 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.
- La Haye, P.A. and E. Epstein. 1969. Salt toleration by plants. Enhancement with calcium. Science 166: 395-396.
- Lai, Y.F. and J.E. Thompson. 1972. The behavior of ATPase in cotyledon tissue during germination. Can. J. Bot. 50(2): 327-332.
- Lall, S.B. and R.S. Sakhare. 1970. Salt tolerance in jowar. Botanique (Nagpur) 1(1): 23-28.
- Lang, A. 1965. Effects of some internal and external conditions on seed germination. Encyclopedia of Plant Physiology. Ruhland W. (ed.) Berlin-Springer, 1965. Vol. 15(2): 848-893.

- Lawlor, D.W. (1969). Plant growth in polyethylene glycol solutions in relation to the osmotic potential of the root medium and the leaf water balance. *J. Exp. Bot.* 20: 895-911.
- Levitt, J. 1972. "Responses of plants to environmental stresses," Academic Press, N.Y.
- Long, E. M. 1943. The effect of salt additions to the substrate on intake of water and nutrients by roots approach grafted tomato plants. *Am. J. Bot.* 30: 594-601.
- Longo, C.P. 1968. Evidence for de novo synthesis of isocitratase and malate synthetase in germinating peanut cotyledons. *Plant Physiol.* 43: 660-664.
- Lowry, O.H., N.J. Rosenborough, A.L. Farr and R.J. Randall. 1951. Protein measurement with Folin-phenol reagent. *J. Biol. Chem.* 193: 265-275.
- Lunin, J., M.H. Gallatin and A.R. Batchenlder. 1961. Effect of stage of growth at time of salinization on the growth and chemical composition of beans. 1. Total salinization accomplished in one irrigation. *Soil Sci.* 91: 194-203 .
- Machaiah, J.P. and U.K. Vakil. 1979. Gibberellin metabolism and regulation of α -amylase isozymes in higher plants.

J. Ind. Inst. Sci. 61(C): 73-95.

Maliwal, G.L. 1967. Salt tolerance studies at germination.

III. Jowar (Sorghum vulgare), Mung (Phaseolus aureus) and Tobacco (Nicotiana tabacum) varieties. Ind. J. Pl. Physiol. 10(2): 95-104.

Maliwal, G.L. and K.V. Paliwal. 1967. Salt tolerance studies on some varieties of wheat (T. aestivum) and barley (H. vulgare) at germination stage. Ind. J. Pl. Physiol. 10(1): 26.

Mann, J.D. 1975. Mechanism of action of gibberellins. In: 'Gibberellins and plant growth', by Krishnamoorthy, H.N. (ed.), New Delhi. Wiley Eastern Ltd., 1975. pp.239-287.

Manners, J.D. 1974. The structure and metabolism of starch. "Essays in Biochemistry" London. Academic Press, Vol. X, 37-71.

Marcus, A. 1971. Enzyme induction in plants. Ann. Rev. Pl. Physiol. 22: 313-336.

Matsui, H., S. Chiba, T. Shimomura and N. Takahashi. 1975. Multiple forms of rice seeds - β -amylases on zymogram. Agr. Biol. Chem., 39(11): 2239-2240.

Maurina, H., L. Exerniece, and B. Turjane. 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, R.F. and J.S. Boyer. 1972. Sensitivity of cell division and cell elongation to low water potentials in soybean hypocotyls. *Planta* 108: 77-87.

McCready, R.M., J. Guggolz, V. Silviera and H.S. Owens. 1950. Determination of starch and amylase in vegetable. Application to peas. *Anal. Chem.* 22(9): 1156-1158.

Meiri, A., A. Poljakoff-Mayber. 1970. Effect of various salinity regimes on growth, leaf expansion and transpiration rate of bean plants. *Soil Sci.* 104: 26-34.

Mizrahi, Y., A. Blumenfeld, S. Bittner and A.E. Richmond. 1970. Absciscic acid and transpiration in leaves in relation to osmotic root stress. *Plant Physiol.* 46: 169-171.

Mizrahi, Y., A. Blumenfeld and A.E. Richmond. 1971. Absciscic acid and cytokinin contents of leaves in relation to salinity and relative humidity. *Plant Physiol.* 48: 752-755.

*

Neumann, D. and A.G.S. Janóssy. 1977. Early responses to gibberellic acid in a dwarf maize mutant (*Zea mays* L. d₁). *Planta* 137: 25-28.

- Nieman, R.H. 1962. Some effects of sodium chloride on growth, photosynthesis and respiration of twelve crop plants. Bot. Gaz. 123(4): 279-284.
- Nieman, R.H. and L. Bernstein. 1959. Interactive effects of Gibberellic acid and salinity on the growth of beans. Am. J. Bot. 46(9): 667-670.
- Novikov, V.A. 1942, 1943. Quoted from 'Physiological basis of salt tolerance of plants' (as affected by various types of salinity) - by Stroganov, 1962. Israel program for scientific translations, Jerusalem, 1964.
- Okamoto, K. and T. Akazawa. 1980. Enzymatic mechanism of starch breakdown in germinating rice seeds. 9. De novo synthesis of β -amylase. Plant Physiol. 65: 81-84.
- 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 hydrolysing enzymes of barley endosperm. Plant Physiol. 35: 902-906.
- Paleg, L.G., B.G. Coombe and M.S. Buttrose. 1962. Physiological effects of gibberellic acid. V. Endosperm

responses of barley, wheat and oats. Plant Physiol.
37(6): 798-803.

Paliwal, K.V. and G.L. Maliwal. 1973. Salt tolerance of
some Arhan (Cajanus indicus) and Cowpea (Vigna
cinensis) varieties at germination and seedling
stages. Ann. Arid Zone 12 (3 and 4): 135-144.

Pearson, G.A., A.D. Ayers and D.L. Eberhard. 1966.
Relative salt tolerance of rice during germination
and early seedling development. Soil Sci. 102: 151-156.

Plant, Z. 1974. Nitrate reductase activity of wheat seed-
lings during exposure of and recovery from water stress
and salinity. Physiol. Plant. 30: 212-217.

Poljakoff-Mayber, A. 1982. Biochemical and physiological
responses of higher plants to salinity stress. In
'Biosaline Research - A look to the future'.
Ed. Anthony San Pietro. Plenum Press, New York.

Poljakoff-Mayber, A. and J. Gale. 1975. Plants in saline
environments, 'Ecological Studies 15', Springer Verlag,
Berlin, Heidelberg, New York.

Pollard, C.J. and D.C. Nelson. 1971. Apparent distinctive-
ness of the actions of gibberellic acid in aleurone
layers. Biochimia Et Biophysica Acta 244(2): 372-376.

- Prathapasenan, G. 1970. Studies on the effect of gibberelllic acid on cotton (Gossypium herbaceum L. var. Digvijay). Ph. D. Thesis. The M.S. University of Baroda, Baroda. India.
- Prisco, J.T. and H.F.V. Gustavo. 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 M.H. Laloraya. 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.
- Rains, D.W. 1972. Salt Transport by plants in relation to salinity. *Ann. Rev. Plant Physiol.* 23: 367-388.
- Raman, K.V.R. and V.S. Rama Das.; 1978. Physiological studies on the influence of salinity and alkalinity. 1. Changes in growth, respiration, carbohydrates and fats during seedling growth of radish (Raphanus sativus L.). *Ind. J. Pl. Physiol.* 21(2): 93-103.
- Ramesh, B. and K. Sunil. 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 J. of the Ind. Bot. Soc. 58(2): 140-148.
- Rao, K., N. Balkrishna, K. Kantha and N.G. Perur. 1973. Varietal tolerance of germinating paddy seeds to different salt concentrations. Mysore J. Agric. Sci. 7(2): 325-327.
- Roswell, E.V., L.J. Goad, 1964. Some effects of gibberellic acid on wheat endosperm. Proc. of the Biochemical Society held at Univ. of Leicester, 1963. In : Biochem. J. 90: 11 p.
- Sanzo Mancebo, R., S.J. Chibás and V. Kriukovskij. 1978. A study of the tolerance of rice (Oryza sativa L.) to salinity during germination. Centro Agricola 5(1): 17-26.
- Sarin, M.N. 1961. Physiological studies on salt tolerance in crop plants. XI. Further studies on the effect of Na_2SO_4 on respiration of wheat and Gram seedlings. Ind. J. Pl. Physiol. 4: 38-46.
- 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 A. Narayanan. 1968. Effects of soil salinity

and growth regulators on germination and seedling metabolism of wheat. *Physiol. Plant.* 21(6): 1201-1209.

7. Sarin, M.N. and L.M. Rao. 1961. Physiological studies in salt tolerance of crop plants. VIII. Influence of IAA spraying on the deleterious effect of Na_2SO_4 on growth and maturity of wheat. *Agra Univ. J. Res. Sci.* 10(2): 7-16.

Scarth, G.W. and Lloyd, F.F. 1930. "Elementary course in general physiology". Wiley, New York. Quoted from 'Responses of plants to environmental stresses', by Levitt, J. Academic Press. N.Y. 1972. pp. 505.

Sergeev, L.I. 1936. Tolerance of wheat to soil salinization (Russ.). *Tr. Kommisii Po irrigatsii. Raboty Po. Fiziologii Rastenii Mikrobiologii IZD. An S.S.S.R.* 8:215-229.

Sheoran, I.S. 1980. Changes in amylase during germination and early seedling growth of mung bean (Vigna radiata (L.) Wilczek) under different salts. *Ind. J. Pl. Physiol.* 23(2): 169-174.

Sheoran, I.S. and O.P. Garg. 1978. Effect of salinity on the activities of RNase, DNase and protease during germination and early seedling growth of mung beans. *Physiol. Plant.* 44: 171-174.

- Shevchenko, A.V. 1967. Preplanting treatment of potato tubers with growth stimulants. Vop. Rastenievod. 100-109. Edited by Ryadnova, I.M., Krasnodar. Gos. Pedagog. Inst. Krasnodar, U.S.S.R.
- 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 Mokslineinku-Biol. Biochem. Moksline Konf (Lithuanian) 110-113.
- Solov'ev, V.A. 1969. Plant growth and water and mineral nutrient supply under NaCl salinization conditions. Fiziol Rast. 16(5): 870-876.
- Spices, J.R. 1957. Colorimetric procedure for amino acid. I. Phenol reagent method. Methods in Enzymology. III. 76: 467. ed. by Colowick, S.P. and Kaplan, N.O., published by Acad. Press, Inc. New York.
- Srivastava, B.I.S. 1964. The effect of GA_3 on ribonuclease and phytase activity of germinating barley seeds. Can. J. Bot. 42(9): 1303-1305.

- Stewart, G.R. and J.A. Lee. 1974. The role of proline accumulation in halophytes. *Planta (Berl.)*: 120: 279-289.
- Stokes, P. 1965. Temperature and seed dormancy. *Encyclopedia of Pl. Physiol.* 15(2): 746-803.
- Storey, R. and R.G. Wyn-Jones. 1977. Quaternary ammonium compounds in plants in relation to salt resistance. *Phytochemistry* 16(4): 447-453.
- Strogonov, B.P. 1962. Physiological basis of salt tolerance of plants (As affected by various types of salinity). Translated by A. Poljakoff-Mayber and A.M. Mayer. Israel program for scientific translations, Jerusalem, 1964.
- Subhash, N. 1981. Physiology of germination of paddy (Oryza sativa L. var. Bhura Rata) under saline condition. Ph. D. Thesis, The M.S. University of Baroda, Baroda, India.
- Thomas, T.H. 1973. in 'Seed Ecology' (Ed.) Heydecker, W. Proc. of the 19th Easter School in Agric. Sci. Univ. of Nottingham pp.524, 1972.
- Udovenko, G.V. and L.I. Alekseeva. 1973. Effect of salinization on initial phases of plant growth. *Fiziol. Rast.* 20(2): 277-280.

- Umbreit, W.W., R.H. Burris and I.F. Stauffer. 1959.
Manometric Techniques. Burges 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 P. Binet. 1975. Factors influencing seed
dormancy in Spergularia media (L.). C. Presl.
Aquatic Bot. 1: 45-55.
- Ungar, I.A. and J. Boucaud. 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:
1230-1242.
- Upreti, 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., F.C. Raney and R.M. Hagan. 1961. Plant water
deficits and physiological processes. Ann. Rev. Pl.
Physiol. 12: 265-292.

Villiers, T.A. 1972. In 'Seed Biology' (T.T. Kozlowski, ed.)
Vol. II, pp. 220-281. Academic Press, New York and
London.

Waisel, Y. 1972. Biology of halophytes. Quoted from
"Plants in Saline Environment" by Poljakoff-Mayber A.
1975. Chapt. VI. Academic Press, New York.

Weimberg, R. 1970. Enzyme levels in pea seedlings grown on
highly salinized media. Pl. Physiol. 46: 466-470.

Weimberg, R. 1975. Effect of growth in highly salinized
media on enzymes of the photosynthetic apparatus in
pea seedlings. Pl. Physiol. 56: 8-12.

Weller, L.E., S.H. Wittwer, M.J. Bukovac and H.M. Sell.
1957. The effect of gibberellic acid on enzyme activity
and oxygen uptake in bean plant (Phaseolus vulgaris).
Plant Physiol., 32: 371-372.

Williams, E. 1960. Some effects of salinity on rice. Bot.
Gaz. (Chicago) 122(87): 102-104.

Wright, S.T.C. 1978. Phytohormones and stress phenomena.
Phytohormones and Related compounds - A comprehensive
Treatise, Vol. II. Chapt. II. pp. 495-536, 1978.
Ed. by Letham Goodwin and Higgins. Publ. by Elsevier/
North Holland Biomedical Press.

- Yadav, J.S.P. 1981. Reclamation and crop production in alkali soils. Current Science. 50(9): 387-393.
- Yemm, E.W. and A.J. Willis. 1954. The estimation of carbohydrates in plant extracts by anthrone. Biochem. J. 57(2): 508-514.
- Yeo, A.R. and T.J. Flowers. 1980. Salt tolerance in the halophyte Suaeda maritima L. Dum. evaluation of the effect of salinity upon growth. J. Exp. Bot. 31: 1171-1183.

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