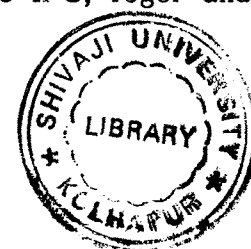


BIBLIOGRAPHY

- Agnihotri, N.P. (1973) Effect of dexton on soil microflora and their ammonification and nitrification activities. Indian J. of Expt. Biol., 11 : 213-216.
- Agnihotri, N.P. and H.K. Jain (1987) Persistence of flucythrinate and flavalinate in soil water and sediment. Pesticides, 21(6) : 36-38.
- Agnihotri, N.P., H.K. Jain, V.T. Gajbhiye and K.P. Srivastava (1987) Persistence of some synthetic pyrethroids and organophosphorus insecticides in soil, water and sediment Part II. J. Ent. Res., 11 in press.
- Agrawal, P.K. and S.K. Soam (1988) Effect of thiodon 35 E.C. on germination and growth of pea. Pesticides, 22(3) : 15-16.
- Alacevic, M. (1980) Progress in environmental mutagenesis Elsevier North-Holland biomedical Press New York.
- Aleshin, E.P., L.G. Molokov and B.V. Yakolven (1971) Effect of various types of salinity on peroxidase activity in rice seedlings. Agrokhimiya, 11 : 100-102.
- Amer, S.M. (1965) Cytological effects of pesticides I. mitotic effects of N methyl 1 naphthyl carbamate sevin. Cytologia, 30 : 175-181.
- Amer, S.M. and E.M. Ali (1968) Cytological effects of pesticides II meiotic effects of some phenols. Cytologia, 33 : 21-33.
- Amer, S.M. and E.M. Ali (1969) Cytological effects of pesticides IV mitotic effects of some phenols. Cytologia, 34 : 533-540.
- Amer, S.M. and F. Odette (1976) Cytological effects of pesticide IPC, rogor and duplar on Vicia faba. Cytologia, 41 : 597-606.



- Arnison, P.G. and W.G. Boll (1976) The effect of 2-4D and kinetin on peroxidase activity and isoenzyme pattern in cotyledon cell suspension cultures of bush bean (Phaseolus vulgaris). Can. J. Bot., 54 : 1857-1867.
- Aspinall, D. and L.G. Paleg (1981) In : The biochemistry and physiology of drought resistance in plants (eds.) L.G. Paleg and Aspinall, Academic press Newyork, pp. 334-364.
- Ayling, R.D. (1977) Anatomical and biochemical changes in germinating seeds of Pinus radiata treated with tordon herbicide. Can. J. Bot., 55(10) : 1359-1372.
- Baba, I.K. and K. Tajima (1964) Mineral nutrition and occurrence of physiological diseases. In : Mineral Nutrition of Rice Plant. Proc. Symp. Int. Rice. Res. Instt. The John Hokins Press Baltimore, Maryland, pp. 173-198.
- Balasubramanin, A. and R. Narayanan (1980) Effect of pesticides on the growth and metabolism of Azotobacter chroococcum In: Agrochemical Residue-Biota Interaction in Soil and Aquatic Ecosystem Pb. International Atomic Energy Agency Vienna, pp. 167-178.
- Bates, L.S., R.P. Waldren and I.D. Teare (1973) Rapid determination of free proline for water stress studies. Plant Soil, 39 : 205-207.
- Bernard, R.F. (1963) Studies on the effects of DDT on birds. Biol. Ser., 2 : 155-162.
- Bhamburkar, S. and J.K. Bhalla (1980) Differential mutagenic sensitivity of 3 varieties of Allium cepa L. J. Cytol. Genet., 15 : 178-185.
- Bhan, A.K. and B.L. Kaul (1975) Cytogenetic activity of dichlorovos in barley. Indian J. Expt. Biol., 13 : 403-405.

- Bollag, J.M. and N.M.Henninger (1976) Influence of pesticides on denitrification in soil and with an isolated bacterium. *J. Environmental Quality*, 5(1) : 15-18.
- Bose,B., H.S.Srivastava and S.N.Mathur (1982) Effect of antibiotics on the germination and protease activity of maize seeds. *Indian J.Plant Physiol.*, 25(3) : 271-275.
- Boyce,A.M. (1976) Historical aspects of insecticide development. In: The future for insecticides needs and prospects (Edts.) Robert L.Metcalf and John J.McKelvey Jr. A Wiley-Interscience Publication, John Wiley and Sons New York/London/Sydney/Toronto.
- *Brown,A.W.A. (1962-63) Effects of insecticides on wild life. *Conservationist*, 17 : 8-11.
- Buczacki,S.T. and S.E.Cadd (1976) Glass house evolution of systemic compounds derivatives of dithiocarbamic acid and other fungicides for the control of clubroot. *Ann. Appl. Biol.*, 84 : 43-50.
- Casida,J.E. and L.Lykken (1969) Mechanism of organic pesticide chemicals in higher plants. *Ann. Rev. Plant Physiol.*, 20 : 607-636.
- Chandra,G., R.C.Srivastava and S.N.Mathur (1983) Responses of Vigna mungo (L.) Hepper to treatments of melathion and carbendazim and effect on growth, nodulation and yield. *Pestology* 7(11) : 22-26.
- Chakraborti,S., K.K.Das and S.K.Banarjee (1979) Malathian exposed seeds of Vigna sinensis : change in the activity of plasma membrane bound monovalent stimulated ATPase. *Intern. J. Environ. Studies.* 14:217-222.

- Chakraborti,S., K.K.Das, S.G.Dastidar and S.K.Banerjee (1981) Biochemical studies of some hydrolytic enzymes in melathion treated germinating seeds of Vigna sinensis L.: effect of growth hormone supplementation. Intern. J. Environ. Studies, 17 : 129-134.
- Chakraborti,S.,J.Chatterjee and S.K.Banerjee (1983) Biochemical studies of some cell wall associated enzymes in melathion treated germinating seeds of Vigna sinensis (L) : effect of IAA and GA3 supplimentation. Intern. J. Environ. studies, 21(3-4):281-288.
- Chattopadhyya,S.B. (1980) Problems of pesticide residue In : Principles and proce dures of plant protection, Oxford and IBH Publishing Co. Pvt. Ltd.Delhi pp. 280-288.
- Ching,T.M. (1972) Mechanism of germinating seeds In : Seed Biology. (ed.) T.T.Kozlowski, Academic Press New York, 2: pp. 103-218.
- Chinoy,J.J., O.P.Saxena, P.G.Abraham, R.B.Pandya, I.C.Dave, K. Gurumurthi and K. Sastri (1969) Physiology of seed germination in relation to early production of ascorbic acid and ascorbic acid oxidase in wheat (Triticum) and Peanut (Arachis). PL 480 final Res. Progress Report Project No. FG.In 182 (A7-CR-87), pp. 1-350.
- Chu,T.M., D.Aspinall and L.G.Paleg (1974) Aust.J.Plant Physiol. 1: 87. C.F. Deshpande A.A. and G.S.Swamy (1987) Induction of proline accumulation by methylparathion in sorghum (Sorghum bicolor L.) Curr. Sci., 56(20): 1068-1070.
- Cottam, C. (1965) The ecologist's role on problems of pesticide pollution. Bioscience, 15 : 457-463.

- Crocker, B.H. (1953) Effects of 2-4 dichlorophenoxy acetic acid and 2-4-5 trichloro phenoxy acetic acid on mitosis in Allium cepa. Bot. Gaz., 114(3) : 274-283.
- Culliton, B.J. (1978) Toxic substances legislation - how are laws being implemented? Science, 201 : 1198-1199.
- Dalvi, R.R., B.Singh and D.K.Salunkhe (1972) C.F. Sengupta, P.K., A. Chakrabarty and S.K.Banerjee (1988) Carbaryl toxicity in germinating seeds of Vigna sinensis : effect of gibberellic acid supplementation. Curr.Sci., 57(8) : 415-417.
- David, S.K. (1965) Phytotoxicity of some systematic pesticides to seeds and plants. Indian. J.Agric., 35 : 57.
- deKergommeaux, D.J., W.F.Grant and S.S.Sandhu (1983) Clastogenic and physiological response of chromosomes to nine pesticides in Vicia faba in vivo root-tip assay system. Mutat. Res., 124 : 69-84.
- Deshpande, A.A. and G.S.Swami (1987) Induction of proline accumulation by methylparathion in sorghum (Sorghum bicolor L.) Curr. Sci., 56(20) : 1068-1070.
- Draper, S.R. (1972) Amino acid changes associated with low temperature treatment of Lolium perenne. Phytochemistry, 11 : 639-641.
- Duggan, R.E. and M.B.Duggan (1974) Pesticide residues in food In: Environmental pollution by pesticides (Ed.) C.A.Edwards, Plenum press London and New York, pp. 334-363.

- El Fouly, M.M. and J.Jung (1972) Activity of acid-phosphatase (EC. 3.1.3.2) in wheat seedlings associated with salt stress conditions. *Plant and Soil*, 36(2) : 497-500.
- *Epstein, S.S. and M.S.Legator (1971) The mutagenicity of pesticides : concepts and evolution, MIT Press, Cambridge, Massachusetts. pp. 200.
- *Evans, H.J. (1962) Chromosome aberrations induced by ionizing radiations. *Int. Rev. Cytol.*, 13 : 221-321.
- Finlayson, D.G. and Mac Carthy (1973) Pesticide residues in plants. In: *Environmental pollution by pesticides* (Ed.) C.A. Edward, Plenum press London and New York.
- Fujii, T. and T. Inoue (1983) Mutagenic effect of a pesticide (ekatin) in the soyabean test. *Environ. & Expt. Bot.*, 23 : 97-101.
- Gangawane, L.V. and J. Deshpande (1985) *Pesticides of crop plants in India* Sahayog Publishers, Aurangabad.
- Gawaad, A.A.A., F.H. Gayar and Khadr (1972) Effect of some soil insecticides on germination, growth, dry weight, yield and quality of menafi cotton (Gossypium barbedans L.). *Indian J. Agric. Sc.*, 42(12): 1075-1083
- George, M.K., K.S. Aulakh and J.S. Desai (1970) Morphological and cytological changes induced in barley (Hordeum vulgare) seedlings following seed treatment with fungicides. *Can. J. Genet. Cytol.*, 12 : 415-419.
- Georgian, L. (1975) The comparative cytogenetic effects of aldrin and phosphamidon. *Mut. Res.*, 31 : 103-113.
- Ghildiyal, M.C., M. Pandey and G.S. Sirohi (1986) Proline content in linseed varieties as influenced by zinc nutrition. *Indian J. Plant Physiol.*, 29(4): 368-374.

- Goas, G., M.Goas and F.Laher (1982) Accumulation of free proline and glycine betaine in Aster tripolium subjected to a saline shock, A kinetic study related to light period. *Physiol. Plant*, 55 : 383-388.
- Gopalkrishnan, K. and A.Kavi (1984) *Gassid. The Week*, 2 (52) : 14-21.
- Grant, W.F. (1970) Pesticides and heredity. *Mac Donald J.*, 31 : 211-214.
- Grant, W.F. (1971) The case for mutagenic testing of chemical pollutants. *Can. Field. Nat.*, 85 : 203-204.
- Green, M.B., G. S.Hartley and T.F.West (1987) Safety of pesticides. In: *Chemicals for crop improvement and pest management*, Pergamon Press Oxford.
- Greenway, H. and R.Munns (1980) Mechanism of salt tolerance in nonhalophytes *Annu. Rev. Pl. Physiol.*, 31 : 149-90.
- Grover, I.S. and P.S.Tyagi (1980) Cytological effects of some common pesticides in barley. *Environ. Expt. Botany*, 20 :243-245.
- Grover, I.S. and P.S. Tyagi (1980a) Chromosomal aberrations induced by thiodon in barley. *Sci. Cult.*, 46 : 427-429.
- Guha, P., M.K.Ray, M.Santra, A.Mitra and G.C.Chatterjee (1987). Effect of Dimethoate on total soluble nucleotide, deoxyribonuclease and ribonuclease in the Vigna sinensis (L.) seeds during germination. *Indian J. Plant Physiol.*, 30(1) : 20-25.
- Gupta, R.C., M.U. Beg and P.S.Chandel (1983) Effect of endosulfon on the seed germination and seedling growth of Vigna radiata (Linn.) Willezeck and Triticum vulgare (Linn.). *Pestology*, 7(3): 25-28.

- Halvankar, G.B. and V.P. Patil (1984) Effects of agro-chemicals on mitotic chromosome behaviour in tetraploid and hexaploid wheats. *Indian J. Genetics*, 44(3) : 438-446.
- Halvankar, G.B. and V.P. Patil (1987) Effects of agro-chemicals on meiotic chromosome behaviour in tetraploid and hexaploid wheats. *Biovigyanam*, 13(1): 5-12.
- Herbert, D. (1955) Catalase from bacteria. In : *Methods in enzymology vol. II* (Eds.) Colowick, S.P. and Kalpan, N.O. Academic press, Inc. Publishers New York, pp. 784-786.
- Hoess, R.H., M.H. Smith, C.P. Stowell (1974) A genetic analysis of peroxidase isozymes in two species of *Nicotiana*. *Biochem. Genet.*, 11 : 319-323.
- Hussey, N.W. and N. Scopes (1985) *Biological pest control*, Blandford Press, Poole, Dorset., pp. 8-10.
- Jai Prakash and H. Singh (1984) Effect of Isoproturon on germination and early seedling growth of wild canary grass under varying levels of salinity. *Indian J. Pl. Physiol.*, 27(2) : 206-208.
- Kamala, T. and N. Rao (1982). Effect of 3 fungicides on *Sesamum indicum* (L.) var Madhavi. *Geobios*, 9 (5 and 6) : 281-283.
- Karadge, B.A. and A.V. Karne (1985) Influence of systemic fungicides bavistin and calaixin on *Lycopersicon esculentum* Mill. leaves. *Biovigyanam*, 11(2) : 166-168.
- Karant, N.G.K., C. Chitra and V.N. Vasantarajan (1975). Effect of fungicide dexton on the activities of soil enzymes. *Indian J. of Experimental Biology*, 13 : 52-54.

- Katsumi, M. and M. Fukuharu (1969) The activity of α -amylase in the shoot and its relation to gibberellin induced elongation. *Physiol. Plant*, 22 : 68-75.
- Kaur, P. and I.S.Grover (1983) Induction of chlorophyll deficient mutants by some organo-phosphorus pesticides. *J. Cytol. Genet.*, 18 : 64-71.
- Kaur, P. and I.S.Grover (1985) Cytological effects of some organophosphorus pesticides II. meiotic effects, *Cytologia*, 50 : 199-211.
- Krishnamurty, P. and D.Rao (1980) Effect of two fungicides on the germination and growth in Brassica nigra Koch. *Geobios*, 7 : 160-161.
- Krishnamurty, P. and D.Rao (1980a) Effect of sumithion on leaf variations in Phaseolus vulgaris L. *Geobios*, 7(1) : 35-36.
- Kulkarni, J.H., J.S.Saradeshpande and D.J. Bagyaraj (1974) Effect of four soil applied insecticides on the symbiosis of Rhizobium sp. with Arachis hypogea L. *Plant and Soil*, 40(1) : 169-172.
- Kumar, K.B. and P.A.Khan (1983) Effect of calaxin on chlorophyll retention and peroxidase activity in excised ragi leaves during senescence (abstract) *Proc. 70th Session Ind. Sci. Cong. Tirupati*.
- *Kurinnyi, A.L (1975) Comparative investigation of cytogenetic effect of certain organophosphorus pesticides (Russian). *Genetica*, 11 : 64-69.
- Kurinnyi, A.I. and M.A.Piliniskaya (1974) Pesticides as a mutagenic principle of tryptophane pyrolysate. *Mutat. Res.*, 53 : 351-353.
- *Lea, D.E. (1955) *Actions of radiations on living cells*. Cambridge Univ. Press, pp. 416.

- Maas, E.V. and R.H. Nieman (1978) Physiology of salt tolerance to salinity.
In : Crop tolerance to suboptimal land conditions (ed.) G.A.Jung. ASA.
Spec. Publ. No. 32, Madison ISBN 089118-051-6. pp. 277-299.
- Maehly, A.C. and Chance, B. (1954) The Assay of Catalases and
peroxidases. In : Methods of Biochemical Analysis
(ed.) D.Glick, Interscience Pb. Inc. New York, pp. 357-424.
- Maharana, R.K., P.I.Dash, S.B.Padhi and S.P.Padhi (1986) Effect of some pesti-
cides on two nitrogen fixing blue green algae. *Geobios*, 13(5) : 185-188.
- Malkomes, H.P. and B. Wöhler (1984) Comparison of various methods of inves-
tigating the side effects of pesticides on soil micro-organisms, taking
herbicide as an example. *Plant Res. Development*, 20 : 31-44.
- Mann, S.K. (1977) Cytological and genetical effects of dithane-fungicide on
Allium cepa, *Environ. & Expt. Bot.* 17(1) : 7-12.
- Manoharan, T., Thirunavukkarasu, D.Karunakaran and K.R.Natarajan (1981)
Effects of fluchloralin on the metabolism of cowpea (*Vigna unguiculata*
L.) Seedlings. *Indian J. Expt. Biol.* 19 : 943-947.
- *Mayer, P. (1959) 4500 Jahre pflanzenschutz (4,500 years of plant protection)
Stuttgart: Ulmer 1959. C.F. Insecticides from the vegetable kingdom
by Frankbey (1978) published in *Plant-Research and Development*,
7 : 13-31.
- McLachlan, K.D. (1980) Acid-phosphatase activity of intact roots and acid phos-
phorus nutrition in plants I. assay condition and phosphatase activity.
Aust. J. Agric. Res., 21 : 429-440.

- Metcalf, R.L. (1986) The ecology of insecticides and the chemical control of insects. In : Ecological theory and integrated pest management practice (Ed.) Kogan, M., A. Wiley-interscience publication. John Wiley and Sons. pp. 251-299.
- Mishra, G.M. and S.P.Sinha (1979) Effects of Melathion on mitotically dividing onion Allium cepa root tip cells. Indian J. Exp.Biol., 17 : 716-717.
- Mote, U.N. (1978) Effect of systemic insecticides on the germination and subsequent growth of pea seed. Seed.Res. 6(1) : 62-66.
- Mrak, E. (1969) Reports of secretary's Commissions on pesticides and their relationship to environmental health, Part II Dec. 1969. Dep. Health, Educ. and Welfare, USGPO Washington, D.C.
- Naik, G.R. and G.V.Joshi (1986) Metabolism of exogenous proline in sugarcane var. CO 740 under salinity and PEG stress. Curr. Sci., 55(2) : 104-106.
- Nardeo, K.N. and T.N.Dube (1973) Protinase enzyme as influenced by urea and herbicides applied to grassland oxisol. Indian J. Exp. Biol. 11 : 117-119.
- Padmaja, C., T. Mogili and Vidyavati (1986) Effect of Dimecron on somatic cells of Allium sativum L. Curr.Sci., 55(22) : 1143.
- Palaniappan, P. and A.Balasubramanian (1986) Effect of two pesticides on Rhizosphere microflora of cowpea. Pesticides, 20(1) : 19-24.
- Panda, B.B. and C.B.S.R.Sharma (1980) Cytogenetic hazards from agricultural chemicals 3 monitoring the cytogenetic activity of trichlorofon and dichlorovos in Hordeum vulgare. Mut. Res., 78 : 341-345.
- Pandya, M.K. (1983) Impacts of pesticides in a microcosm (on bacterial population dynamics) Pesticides, 17(4) : 3-7.

- Pathak, B.K. and S. Mukherji (1986) Sevin induced stimulation of growth and metabolism of mung-bean Vigna radiata seedlings. *Curr. Sci.*, 55(17) : 866-867.
- Patil, T.M. and B.A. Hegde (1983) Influence of water stress on relative rate of photosynthesis and translocation of photosynthate in the leaves of Parthenium hysterophorus. *Indian. bot. Repr.*, 2(1) : 9-12.
- Penner, D. and F.M.Ashton (1967) Harmonal control of protease activities in Squash cotyledons. *Plant Physiol.*, 42 : 791-796.
- Philomena, P.A. and B.V.David (1985) Effect of pesticides on in vitro pollen germination and growth and yield of okra. *Curr. Sci.*, 54(18) : 927.
- Prasad, A.B. (1974) Production of multipolar spindles in canary grass following irradiation of dry seeds. *J. Cytol. Genet.*, 7 and 8 : 184-187.
- Prasad, B.N. and S.N.Mathur (1983) Effect of metasystox and cuman-L on seed germination, reducing sugar content and amylase activity in Vigna mungo (L.) Hopper. *Indian J. Plant Physiol.*, 26(2) : 209-213.
- Prasad, B.N., R.C.Srivastava, D.Mukherji and S.N. Mathur (1980) Effect of cuman-L and metasystox on in vivo nitrate reductase activity in the primary leaves of Vigna mungo. *Natl. Acad. Sci. Lett.*, 3 : 325-327.
- Puchkova, I.I. (1965) The effect of organophosphorus insecticides on carbohydrate metabolism in Pine needles. *Chem. U. Sel SK Khoz*, 3 : 34-37.
- Rahman, M.S. and G.N. Bhattacharya (1985) Comparative cytological effects of sevin on vegetatively and sexually reproducing plants, Allium cepa L. and Lathyrus sativus L., *Geobios*, 12(6) : 257-258.

- Rahman, M.S., M.Guha and G.N. Bhattacharya (1986) Differential effects of two pesticides on a vegetatively reproducing plant Caladium bicolor. Geobios, 13 (4) : 181-184.
- Rao, S., D.Rao and M. Katyani (1980) Effect of dithane on physiological variability in Abelmoschus esculentus L. Moench., J. Indian bot. Soc., 59 : 137-143.
- Rao, B.V., C.B.S.R. Sharma and B.G.S. Rao (1986) Proc. Indian Acad. Sci. (Plant Sci.) 96(4) : 303-310.
- Reddy, J.K. and Vidyavati (1983) Effect of a fungicide on the growth and seedling metabolism of Dolichos biflorus L. Geobios, 10(4) : 174-178.
- Reddy, M.T., A.K.Gupta and Varshiney (1986) The effect of pesticides on plant growth nodulation, N₂ fixation and protein content in fresh peas (Pisum sativum). Pesticides. 20(7) : 36-38.
- Ridgeway, R.L., J.C.Tinney J.T. Mac Gregor and J.J.Starler (1978) Pesticide use in agriculture. Environ. Hlth. Persp., 27 : 103-112.
- Sachan, J.N., J.K. Verma and B.P.Srivastava (1967) Effect of the application of soil insecticides on the germination and growth of wheat. Indian J. Ent., 29 : 185.
- Sahu,R.K., B.N. Behera and C.B.S.R.Sharma (1983) Cytogenetic hazards from agricultural chemicals-V clastogenic effects of some benzimidazole fungicides on root meristems. Environmental and Experimental Botany, 23 : 79-83.
- Salgare, S.A. (1983) Pollen physiology of angiosperms. Ph.D. thesis, Bombay University.

- Sass, J.E. (1937) Histological and cytological studies of ethyl mercury phosphate injury to corn seedlings. *Phytopathology*, 27 : 95-99.
- Sathaiah, V., G. Appaiah Sastry and P.Venkat Reddy (1974). Cytological effects of 2,3-dihydro-2, 2 dimethyl-7 benzofuronyl methyl carbamate carbofuran. *Curr. Sci.* 43(2) : 53-54.
- Sawamura,S. (1965) Cytological studies on the effect of herbicides on plant cells in vivo II non harmonic herbicides. *Cytologia*, 30 : 325-348.
- *Sax, K. (1940) An analysis of X-ray induced chromosomal aberrations in Tradescantia. *Genetics*, 25 : 41-68.
- *Sax, K. and H.J.Sax (1968) Possible mutagenic hazards of some food additives, beverages and insecticides. *Jap. J. Genet.*, 43 : 89-94.
- *Scholes, M.E. (1955) The effects of aldrin, dieldrin, isodrin, endrin and DDT on mitosis of the onion Allium cepa L. *J. hort. Sci.*, 30:181-187.
- Sengupta,P.K., A.Chakrabarti and S.K.Banerjee (1988) Carboxyl toxicity in germinating seeds of Vigna sinensis : Effects of gibberellic acid Supplemen-
tation. *Curr. Sci.*, 57(8) : 415-417.
- Sharma, C.B.S.R. (1986) Pesticide genotoxicity in plants : Implications and perspectives. In : *Mutagenesis basic and applied* (Ed.) A.B.Frasad, Print House, India (Lucknow), pp. 237-251.
- Sharma, P.B. and S.L.Chopra (1970) Persistence of malathion residue on cauliflower crop. *J.Res.Punjab Agril. Univ.*, 7 : 216-220.
- Shinde, S.K. (1979) *Pesticides* 13(3) : 50, C.F. Nandakumar (1982) DST Report (Ed.) Swani, K.S., S.V. University, Tirupati.

- Shoemaker, C.R. and C.Ahrke (1983) Effects of the pesticides captan, folpet, guthion and dichlorovos on recombination in maize. *Environmental and Experimental Botany*, 23 : 45-51.
- Shrista, A.M. and V.V.Kale (1970) Effect of fungicide treatment on germination and seedling vigour of chickpea (Cicer arietinum) J. Tropical Grain Legume Bulletin, 16 : 29-32.
- Siebert, D. and G. Eisenbrand (1974) Induction of mitotic gene conversion in Saccharomyces cerevisiae by N-nitrosated pesticides. *Mutat. Res.*, 22: 121-126.
- Singh, P. and M. Kang (1978) Physiological response of ground-nut to bavistin application for the control of tikka disease. *Symp. Plant Disease Probl.* Oct. 1-3, Udaipur.
- Singh, H.N. and Vaishampayan (1978) Biological effects of rice field herbicide machete on various strains of the nitrogen fixing blue-green alga Nostoc muscorum. *Envirn. & Expt. Bot.* 18 : 87-94.
- Singh, B.D., Y.Singh, R.B.Singh, R.M.Singh, N.D.R.K. Sharma and J.Singh. (1977). Cytogenetic aberrations and morphological changes induced by insecticides treatment in barley seeds. *Indian J. of Exp. Biol.*, 15:688-691.
- Singh, B.D., R.B.Singh, R.M.Singh, Y.Singh and J.Singh (1979) Effect of insecticides on germination, early growth and cytogenetic behaviour of barley (Hordeum vulgare). *Environ. & Expt. Bot.*, 19 : 127-132.

- Singh, H.N., H.R. Singh and A. Vaishampayan (1979) Toxic and mutagenic action of the herbicide alachlor (Lasso) on various strains of the nitrogen fixing blue green alga Nostoc muscorum and characterisation of the herbicide induced mutants resistant to methylamine and L-methionine DL sulfoximine. *Environ. & Expt. Botany*, 19 : 5-12.
- Sinha, A.P., V.P.Agnihotri and K. Singh (1981) Effect of phorate and Lindane on germination and growth of sugar beet (Beta vulgaris). *Pestology*, 5(8) : 23-25.
- Sinha, O.K., R.R.Bhansal and K.Singh (1984) Free proline accumulation in response to infection by Colletotrichum falcatum in sugarcane. *Curr. Sci.*, 53 (9) : 493-494.
- Soldatini, G.F., I.Ziegler and H.Ziegler (1978) Sulfite : Preferential sulfur source and modifier of CO₂ fixation in Chlorella vulgaris. *Planta*, 143 : 225-231.
- Somashekhar, R.K. (1986) Effect of fungicide metaxyl on the root meristem of Zea mays. L. *Curr. Sci.*, 55(1) : 43-45.
- Somashekhar, R.K. and K.P.Sreenath (1986) Effect of carbamate pesticide - dithane M-45 on crop plants. *Pesticide*, 20(4) : 44-45.
- Srinivasan, S., S. Lingappa and J.S.S. Joshi (1985) Effect of monocrotophos and dimethoate on certain anatomical details of onion leaf tips. *Geobios*, 12(1) : 17-19.
- Stewart, G.R. and J.A.Lee (1974) The role of proline accumulation in halophytes - *Planta*, 120 : 279-289.

- Stoker, R.I. (1948) Phytotoxicity of DDT and benzene hexachloride. *Ann.Appl. Biol.*, 35 : 110.
- Strogonov, B.P. (1964) Physiological basis of salt tolerance of plants. *Trans. A. Poljak off - Mayber. A.M.Mayer Israel Program Sci. Transl. Jerusalem*, pp. 279.
- Tatekar, N.S., L.T.Sun, E.M.Lec, J.H.Chen, T.M.Lee and S.Lu (1977). Residual behaviour of several insecticides of chinese cabbage. *J. Econ. Entomol.*, 70 : 689-694.
- Tomkins, D.J. and W.F. Grant (1972) Comparative cytological effects of the pesticides Menazol, metabromuron and tetrachloro isophthalo-nitrile in Hordeum and Tradescantia. *Can. J. Genet. Cytol.*, 14 : 245-256.
- *Tregubenko, M.Y., G.L. Filippov and N.V.Vishnevski (1973) Dykhatel'nyi gazoobmen kukuruzy pri uluchsheni uslovii vyrochivaniya (Respiratory metabolism of corn following improved growing conditions) *Doke Veses (Ordena Lenina) Akad. S.Kh.Nauk. Imv. I Lenina*, 12 : 4-6.
- Tui, C.M. (1981) Effects of pesticide on activities of enzymes and micro organisms in a clay soil. *J. of Environmental Science and Health Part B*, B 16 (2) : 179-191.
- Udaykumar, M., S.R.Rao, T.G. Prasad and K.S.K. Sastri (1976) *New Phytol.*, 77 : 593. C.F. Deshpande, A.A. and G.S.Swamy (1987) Induction of proline accumulation by methylparathion in sorghum (Sorghum bicolor L.) *Curr. Sci.*, 56 (20) : 1068-1070.
- * Vaarama, A. (1947) Experimental studies on the influence of DDT insecticide upon plant mitosis. *Hereditas*, 33 : 191-194.

- Van, H.R.B. and W.L.Cairns (1982) Progress and prospects in the use of peroxidase to study cell development. *Phytochem.*, 21 : 1843-1847.
- Venkatasubbaiah, P. and Safeeulla (1987) Effect of fungicidal treatment on coffee seed germination. *Pesticides*, 21(3) : 35-36.
- Visweswaraiah, K., M.Jayaram and S.K.Majumder (1975) Environmental pollution by pesticides. *J. Food Sci. Technol.*, 12 : 53-55.
- Wample, R.L. and J.D.Bewley (1975) Proline accumulation in flooded and wilted sunflower and the effects of benzyl adenine and abscisic acid. *Can. J. Bot.*, 53 : 2893-2896.
- Wasserman, M., M.Gon, D. Wasserman and L.Zellermayer (1967) *Pest. Monit. J.*, 1(15). C.F. Davies, J.E. Pesticide residues in man. In : *Environmental pollution by pesticides* (Ed.) C.A.Edwards (1973) Plenum press London and New York. pp. 313-333.
- Weimberg, R., H.R.Lerner and A.Poljakoff-Mayber (1982). A relationship between potassium and proline accumulation in salt stressed *Sorghum bicolor*. *Physiol. Plant*, 55 : 5-10.
- Wild,D. (1975) Mutagenicity testing of organophosphorus insecticide. *Mut. Res.*, 32 : 133-150.
- Withers, L.A. and P.J. King (1979) Proline : a novel crytoprotectant for the freeze preservation of cultured cells of *Zea mays* L., *Plant Physiol.*, 64 : 675-678.
- Wood, L.David, M. Robert, Silverstein and Minoru Nakajima (1969) *Pest control. Science*, 164 (3876) : 203-210.

- Wuu, K.D. and W.F. Grant (1966) Chromosomal aberrations induced in somatic cells of Vicia faba by pesticides. The Nucleus, 10 : 37-46.
- Wuu, K.D. and W.F. Grant (1966a) Morphological and somatic chromosomal aberrations induced by pesticides in barley. Can. J. Genet. Cytol., 8 : 481-501.
- Zutshi, U. and B.L. Kaul (1975) Cytogenetic activity of some common fungicides in higher plants. Cytobios, 12 : 61-67.

* Original not seen.