

## REFERENCES

- Aguelon, M and Dunez, J.( 1984). Immunoenzymatic techniques for the detection of *Phoma exigua* in infected potato tissues. *Ann. Appl. Biol.* 105: 463-469.
- Alba, A.P.C. and Devay, J.E.(1985). Detection of cross-reactive antigens between *Phytophthora infestans*(Mont.) de Bary and *Solanum* species by indirect enzyme-linked immunosorbent assay.*Phytopathology* 112: 97-104
- Alba, A.P.C., Guzzo, S.D., Mahlow, M.F.P. and Moreas, W.B.C. (1983). Common antigens in extracts of *Hemilia vastatrix* uredinospores and of *Coffea arabica* leaves and roots. *Fitopathologia Brasileria* 8: 473-483.
- Amos, R.E. and Burrell, R.G.(1966). Serological differentiation in *Ceratocystis*. *Phytopathology* 57: 32-34.
- Amouzou-Alladaye, E., Dunez, J and Clerjeau, M. (1988). Immunoenzymatic detection of *Phytophthora fragariae* in infected strawberry plants. *Phytopathology* 78: 1022-1026.
- Antoniw, J. F. White, R.F., Barbara, D. J., Jones, P. & Longley, A. (1985). The detection of PR (b) – protein and TMV by ELISA in systemic and localized infections of tobacco. *Plant Mol. Biol.* 4: 50-60.
- Arie-Tsutomu, (1998). Immunology-based diagnostics for soil borne diseases. *J. Pest. Sci.* 23(3): 349-356.
- Baby, U. I. and ChandraMouli, B. (1996). Biological antagonism of *Trichoderma* and *Gliocladium* sp. against certain primary root pathogens of tea. *J.Plantation Crops* 25 : 249-255.
- Baby, U.I. and Manibhushanrao, K. (1993). Control of rice sheath blight through the integration of fungal antagonists and organic amendments. *Trop. Agric. (Trinidad)* 70: 240-244.

- Barthakur, B.K. and Samajpati, N. (1985).** Physiological studies on roor rot fungi of tea plant (*Chemellia sinensis* (L) O. Kuntze) in relation to *Ustilina zonata* and *Fomes lamaoensis*. *Two and A Bud.* 32(1&2): 56-60.16.
- Benhamou, N., Ouellette, G.B., Gardiner, R.B. and Day, A.W. (1986).** Immunocyto-chemical localization of antigen binding sites in the cell surface of two ascomyete fungi using antibodies produced against fimbriae from *Ustilago violacea* and *Rhodotorula rubra* *Can.J.Microbiol.* 32: 871-883.
- Benson, D. M. (1991).** Detection of *Phytophthora cinnamomi* in *Azalea* with commercial serological assay kits. *Plant Dis.* 75 : 478-482.
- Biswas, K. K. and Sen, C. (2000).** Management of stem rot of groundnut caused by *Sclerotium rolfsii* through *Trichoderma harzianum* *Indian Phytopathol.* 53:290-295.
- Borthakur, B.K. and Dutta, P.K. (1992).** Proceeding of the 31<sup>st</sup> Tocklai Tea Conference Jan 20-21, Tocklai, pp. 163-168.
- Brill, L.M., Mc Clary, R. and Sinclair, J.B. (1994).** Analysis of two ELISA formats and antigen preparations using polyclonal antibodies against *Phomopsis longicolla*. *Phytopathology* 84:173-179.
- Brlansky, R.H. Lee, R.F., Timmer, L.W., Purcifull, D.E. & Raju, B.C. (1982).** Immunofluorescent detection of xylem limited bacteria *in situ*. *Phytopathology* 72: 1444-8.
- Brodziak, L. (1980).** Selected aspects of *Lentinus edodes* biology in Poland. *Acta. Mycol.*, 16:43-54.
- Burrell, R.G., Clayton C.W., Gallegly M.E. and Lilly, V.G. (1966).** Factors affecting the antigenicity of the mycelium of three species of *Phytophthora*. *Phytopathology* 56 : 423-426.

- Casper, R. and Mendgen, K. (1979). Quantitative serological estimation of hyperparasite : Detection of *Verticillium lecanii* in yellow rust infected wheat leaves by ELISA. *Phytopathol. Z.* 94 : 89-91.
- Chakraborty, B.N. (1988) Antigenic disparity. *In Experimental and Conceptual Plant Pathology* ( Eds. R.S. Singh, U. S. Singh W. M. Hess and D. J. Weber). P. 477, Oxford and IBH publishing Co. Pvt. Ltd; New Delhi.
- Chakraborty, B.N., Basu, P., Das, R., Saha, A. and Chakraborty, U. (1995). Detection of cross-reactive antigens between *Pestalotiopsis theae* and tea leaves and their cellular location. *Ann. Appl. Biol.* 127:11-21.
- Chakraborty, B.N. and Chakraborty, U. (2002). Immunodetection of plant pathogenic fungi . *In : Frontiers of Fungal Diversity in India* ( Eds. G.P.Rao, C.Manoharachari, D.J.Bhat, R.C.Rajak and T.N.Lakhanpal) International Book Distributing Co. Lucknow, p. 23-42
- Chakraborty, B. N., Chakraborty, U., Das, R., Basu, P. and Saha, A. (1996). Serological relationship between *Glomerella cingulata* ( Stoneman) Spaulid & Schrenk and *Camellia sinensis* (L.) O. Kuntze. *J.Plantation Crops* 24: 205-211
- Chakraborty, B.N., Chakraborty, U., Deb, D., Das, J., and Sengupta, D. (2002a). Commercialization of *Trichoderma*-based biofungicides in the management of tea root disease. In Proceedings of *National Symposium on "Diversity of Microbial Resource and their Potential Application*, Department of Botany, University of North Bengal, p: 37-38.
- Chakraborty, B.N, Chakraborty, U, Saha, A, Das, R and Basu, P. (1995). Detection and management of blister blight of tea. In *Management of threatening plant diseases of National importance*, 227-235.
- Chakraborty, B.N., Chakraborty U., Sengupta, D., Deb, D. and Das. J. (2002b). Development of immunodiagnostic Kits for detection of *Ustilina zonata* in the soil and tea root tissues. *J. Basic Appl. Mycol.* 1: 58-61.

- Chakraborty, B.N., Das, R., Basu, P. and Chakraborty U. (2000).** Immunodiagnosis of *Glomerella cingulata* causing brown blight of tea. Proceedings of *International Conference on Integrated Plant Diseases Management for Sustainable Agriculture*. Indian Phytopathological Society IARI, New Delhi, Vol 1. 482-483.
- Chakraborty, B.N. and Purkayastha, R.P.(1983).** Serological relationship between *Macrophomina phaseolina* and soybean cultivars. *Physiol. Plant Pathol.* **23**: 197-205
- Chakraborty, B.N. and Purkayastha, R.P.(1987).** Alternation in glyceollin synthesis and antigenic patterns after chemical induction of resistance in soybean to *Macrophomina phaseolina*. *Can. J. Microbiol.* **33**: 835-840.
- Chakraborty, B.N. and Saha, A. (1994).** Detection and cellular location of cross reactive antigens shared by *Camellia sinensis* and *Bipolaris carbonum*. *Physiol. Mol. Plant Pathol.* **44** : 403-416.
- Chakraborty, B.N., Sarkar, B. and Chakraborty, U.(1997).** Detection of cross-reactive antigens shared by *Fusarium oxysporum* and *Glycine max* by indirect ELISA and their cellular location in root tissues. *Folia Microbiol.* **42**:607-612.
- Chakraborty, U., Basu, P. Das, R., Saha, A. and Chakraborty, B.N.(1996).** Evaluation of antiserum raised against *Pestalotiopsis theae* for the detection of gray blight of tea by ELISA. *Folia Microbiol.* **41**: 413-418.
- Chakraborty, U., Das, R., Basu, P., Guha, S. and Chakraborty, B. N. (2002c).** Serological cross reactivity between *Glomerella cingulata* and *Camellia sinensis*. *Indian Phytopathol.* **55** : 1-7.
- Chakravorti, S.K. (1970).** Studies on some aspects of the biology of *Hexagonia apiaria* (Pers.) Lloyd associated with *Euphoria longan* (Lour.) Stend. Thesis submitted for Ph.D. degree, University of Calcutta.
- Chard, J.M., Gray, T.R.G. and Frankland, C.(1985).** Purification of an antigen characteristic for *Mycena galopus*. *Trans. Br. Mycol. Soc.* **84**: 235-241.

- Charudattan, R. (1970). Studies on strains of *Fusarium vasinfectum* Atk. II. *In vitro* production of toxin and enzymes and immunology. *Phytopath. Z.* 129-143.
- Charudattan, R. and DeVay, J.E.(1972).Common antigen among varieties *Gossypium hirsutum* and isolates of *Fusarium* and *Verticillium* species. *Phytopathology* 62: 230-234.
- Charudattan, R and DeVey, J.E. (1981). Purification and partial characterization of an antigen from *Fusarium oxysporum f.vasintectum* that cross-reacts with antiserum to cotton (*Gossypium hirsutum*) root antigens. *Physiol. Plant Pathol.* 18 : 289-295.
- Clark,M.F.(1981).Immunsorbent assays in plant pathology*Annu.Rev.Phytopathol.*19 : 83-106.
- Clark, M.F., and Adams, A.N. (1977). Characteristics of the microplate method of enzyme linked immunosorbent assay (ELISA). *J. Gen. Virology* 33: 165-167.
- Clausen, J. (1988) . Laboratory techniques in Biochemistry and Molecular Biology Vol. 1, part-3,( Ed. By R.H.Burdon and P.H. Van Kinppenberg ) 64-65.
- Cristinzio, G., Marziano, F. and Giannattasio, M. (1988). Agglutination response of the conidia of eight *Fusarium* species to lectins having different sugar binding specifications.*Plant Pathol.* 37 : 120-124.
- Day, A.W. Gardiner, R.B.; Svirrcev, A.M. and McKeen, W.E. (1986). Detection of fungal fimbriae by proten-a-gold immunocytochemical labeling in host plants infected with *Ustilago heufleri* or *Peronospora hyoscyami f. sp tabacina* *Can.J.Microbiol* 32 : 77-584.
- DeVay, J.E. , Wakeman, R.J., Kavanagh, J.A. and Charudattan, R. (1981a). The tissue and cellular location of a major cross reactive antigen shared by cotton and soil-borne fungal parasites. *Physiol. Plant. Pathol.* 18: 59-66.

- DeVay, J.E., Wilson, Wakeman, R.J. and Kavanagh, J. A. (1981b).** Occurrence of common antigenic determinants between potatoes and *Phytophthora infestans* in relation to host parasite compatibility. In : *Proc. Inter Symp. on Phytophthora: Its Biology, Ecology and Pathology*, D.C. Erwin, S. Bartniti-Garcia, P. Tasao. Ed. 43, Dept. of Plant Pathology. University of California, Riverside.
- Devergene, J.C., Fort, M.A., Bonnet, P., Ricci, P., Vergnet D.T. and Groselaude, J. (1994).** Immunodetection of elicitors from *Phytophthora spp.* Using monoclonal antibodies. *Plant Pathol* 43: 885-896.
- Dewey, F.M., Barret, D.K., Vose, I.R. and Lamb, C.J. (1984).** Immunofluorescence microscopy for the detection and identification of propagules of *Phaeolus schweinitzii* in infested soil. *Phytopathology* 74 : 291-296.
- Dhingra, O.D. and Sinclair J. B. (1985).** *Basic Plant Pathology Methods*. CRC Press, Inc. Boca Raton, Florida.
- Duncan, J.M. (1980).** A technique for detecting red stele (*Phytophthora frageriae*) infection of strawberry stocks before planting. *Plant disease* 64: 1023-1025.
- Fuhrmann, B; Roquebert, M.F., Hoegaerden and Strosberg (1989).** Immunological differentiation of *Penicillium*. *Can. J. Microbiol.* 35: 1043-1047.
- Gardiner, R.B., McKeen, W.E., Lawrence, T.M., Smith, R.J. and Day, A.W. (1989).** Inhibition of *Botrytis cinerea* spore germination by immunoglobulins. *Can. J. Bot.* 67: 922-927.
- Gerik, J. S. and Huisman, O.C. (1988).** Study of field grown cotton-roots infected with *Verticillium dahliae* using an immunoenzymatic staining technique. *Phytopathology* 78: 1174-1178.
- Gerik, J.S., Lommel S.A. and Huisman O.C. (1987).** A specific serological staining procedure for *Verticillium dahliae* in cotton root tissue. *Phytopathology* 77: 261-265.

- Ghosh, S. and Purkayastha, R.P. (1990). Analysis of host parasite cross-reactive antigens in relation to *Myrothecium* infection of soybean. *Ind. J. Expt. Biol.* 28: 1-5.
- Graham, T. L. and Graham, M.Y. (1996). Signaling in soybean phenylpropanoid responses. *Plant Physiol.* 110:1123-1133.
- Gupta, V., Kumar, A., Sing, A. and Gagr, G.K. (2000). Immunodetection of teliospores of karnal bunt (*Telitia indica*) Of wheat using fluorescencet staining tests. *Plant Cell Biotechnol.Mol. Biol.* 1: 81-86.
- Gwinn, K.D., Collins,S. and Reddick, B. B. (1991). Tissue Print-Immunoblot : an accurate method for the detection of *Acremonium coenophialum* in tall fescue. *Phytopathology* 81 : 747-748.
- Hansen, M.A. and Wick R.L. (1993). Plant disease diagnosis : Present status and future prospects. *Adv. Plant Pathol.* 10 : 64-126.
- Hardham A.R. and Suzaki, E. (1989). Glycoconjugates on the surface of spores of the pathogenic fungus *Phytophthora cinnamomi* studied using fluorescence and electron microscopy and flow cytometry. *Can. J. Microbiol.* 36: 183-192.
- Harold, H., Burdsall, JR., Mark, B. and Mark, E.C. (1990). Serologically differentiation of three species of *Armillaria* and *Lentinula edodes* by enzyme linked immunosorbent assay using immunized chickens as a source of antibodies. *Mycologia*, 82(4): 415-423.
- Harrison J.G., Barker, H., Lowe, R and Rees E. A.(1990). Estimation of amounts of *Phytophthora infestans* mycelium in leaf tissue by enzyme linked immunosorbent assay. *Plant Pathol.* 39:274-277.
- Hazarika, D.K., Phookan, A. K., Saikia, G.K., Borthakur, B.K. and Sarma, D. (2000). Management of charcoal stump rot of tea with biocontrol agents. *J. Plantation Crops* 28: 149-153.



- Hazarika, D. K., Phookan, A. K. and Talukdar, N. C. (1999).** International conference on Frontiers in Fungal Biotechnology and plant pathogen relations. Osmania University, Hyderabad (Abstr.).
- Hazarika, D.K. and Das, K.K. (1998).** Biological management of root rot of French bean (*Phaseolus vulgaris* L.) caused by *Rhizoctonia solani* *Plant Dis. Res.* 13 : 101-105.
- Holtz, B. A., Karu A.E., and Weinhold, A. R. (1994).** Enzyme linked immunosorbent assay for detection of *Thielaviopsis basicola*. *Phytopathology* 84: 977-983.
- Hong, J., Lee, K.S. and Choi, D.S. (1981).** Studies on Basidiomycetes :1. Mycelial growth of *Agaricus bisporus* and *Pleurotus ostreatus*, *Korean J. Mycol.*, 9(1):19-24.
- Horn, k, L and Jagicza, A (1973).** Fluorescent Antibody staining of *Fusarium culmorum*. *Acta Phytopathologica Aca. Sci. Hungaricae* 8: 357-363.
- Iannelli, D, Capparelli, R. Cristinzio, G. Marziano, F., Scala, F. and Noviello, C. (1982).** Serological differentiation among formae speciales and physiological races of *Fusarium oxysporum*. *Mycologia* 74: 313-319.
- Ishizaki, H., Nakamura, and Wheat, R. W. (1981).** Serological cross reactivity between *Sporothrix schenckii* and various unrelated fungi. *Mycopathologia* 73: 65-68.
- Jain, N.K. (1991).** Indian tea in Retrospect and prospect and the impact R.D. In: World International Symposium on Tea science, Japan, 45-57.
- Jamaux, I. and Spire, D. (1994).** Development of a polyclonal antibody based immunoassay for the early detection of *Sclerotinia sclerotiorum* in rapeseed petals. *Plant Pathol.* 43: 847-862.
- Janardhana, G.R. (1994)** Modified atmosphere storage system for control of storage moulds and mycotoxin production in maize. *M.Phil dissertation University of Mysore*, p.95.

- Kalyansundaram, R. and Charudattan, R. (1969).** Serological studies in the genus *Fusarium* : A comparison of strains. *Phytopath.Z.* **64**: 28-31.
- Keen, N, T. Legrand, M. (1980).** Surface glycoproteins : evidence that they may function as the race specific phytoalexin elicitors of *Phytophthora megasperma* f. sp. *glycinea* *Physiol. Plant Pathol.* **17** : 175-192.
- Kemp, G., Botha, A.M., Klosppers, F. J. and Pretorius, Z.A. (1999).** Disease development and  $\beta$ -1, 3-glucanase expression following leaf rust infection in resistant and susceptible near-isogenic wheat seedlings. *Physiol. Mol. Plant. Pathol.* **55** : (45-52).
- Kitagawa, T.; Sakamoto, Y.; Furumi, K and Ogura, H (1989).** Novel Enzyme immunoassay for specific detection of *Fusarium oxysporum* f. sp. *cucumerinum* and for general detection of various *Fusarium* species. *Phytopathology* **79**: 162-165.
- Kumar, A., Lakhchaura, B.D., Singh, A. and Garg, G.K., (2000).** Development of seed immunoblot binding assay for detection of Karnal bunt of wheat. *Proceedings-Indian Phytopathological Society.* Vol. **1** : 424-425.
- Laemmli, U.K. (1970).** Cleavage of structural proteins during assembly of the head of the bacteriophage T4. *Nature* **227** : 680-685.
- Lange,L.;Heide,M.and Olson,L.W. (1989).**Serological detection of *Plasmodiophora brassicae* by dot immunobinding and visualization of the serological reaction by Scanning electron microscopy. *Phytopathology* **79**:1066-1071.
- Laxlt, A.M., Madrid, E.A., Beligni, M.V. and Lamattina, L. (1998).** Anti-idiotypic antibodies can mimic the ability of *Phytophthora infestans* to induce the accumulation of transcripts associated with defence responses in potato. *Physiological and Molecular Plant Pathology* **53**:135-148.
- Linfield C.A. (1993).** A rapid serological test for detecting *Fusarium oxysporum* f. sp. *narcissi* in *Narcissus*. *Ann. Appl. Biol.* **123**: 685-693.

- Lommel, S.A., McCain, A.H. and Morris, T.J. (1982). Evaluation of indirect enzyme linked immunosorbent assay for the detection of plant viruses. *Phytopathology* 72 : 1018-1022.
- Loomis, R.S. and Adams, S.S. (1983). Integrative analysis of host pathogen relations. *Annu. Rev. Phytopathol.* 21: 241-362.
- Lowry, O.H.; Rosebrough, N.J., Farr, A. L. and Randall, R. J. (1951). Protein measurement with folin phenol reagent. *J. Biol. Chem.* 193: 265-275.
- Lyons, N.F. and White, J.G. (1992). Detection of *Pythium violae* and *Pythium sulcatum* in carrots with cavity spot using competition ELISA. *Ann. Appl. Biol.* 120: 235-244.
- MacDonald J.D. and Duniway J.M. (1979). Use of fluorescent antibodies to study the survival of *Phytophthora megasperma* and *P. cinnamomi* zoospores in soil. *Phytopathology* 69: 436-441.
- Mackie, A.J., Roberts A.M., Green, J.R. and Callow, J.A. (1993). Glycoproteins recognized by monoclonal antibodies UB7, UB8 and UB10 are expressed early in the development of pea powdery mildew haustoria. *Physiol. Mol. Plant Pathol.* 43: 135-146.
- Marshall, M. R. and Partridge J. E. (1981). Immunochemical identification of *Fusarium moniliforme* ribosomes from diseased corn (*Zea mays* L.) stalk tissue. *Physiol.Plant Pathol.* 19:277-288.
- Masago, H., Yoshikawa, M., Matsumoto,T. Katsumoto M.,Ogata,H and Kishibe, Y. (1989). Differentiation and identification of *Phytophthora* species by Two-Dimensional Electrophoresis. *Ann. Phytopath. Soc. Japan.* 55: 336-343.
- Mercure, E.W., Kunoh, H. and Nicholson, R.L. (1995). Visualization of materials released from adhered, ungerminated conidia of *Colletotrichum graminicola*. *Physiol. Mol. Plant Pathol.* 46 : 121-135.

- Merz, W.G., Burrell, R.G. and Gallegly, M.E. (1968).** A serological comparison of six heterothallic species of *Phytophthora*. *Phytopathology* **59**:367-370.
- Miler, S.A., Madden, L.V. and Schmitthenner, A.F. (1997).** Distribution of *Phytophthora* spp. In field soils determination by immunoassay. *Phytopathology* **87** (1) : 101-107.
- Mohan, S.B. (1988).** Evaluation of antisera raised against *Phytophthora fragariae* for detecting the red core disease of strawberries by Enzyme linked immunosorbent assay (ELISA). *Plant Pathology* **37**: 206-216.
- Mohan, S. B. (1989).** Cross reactivity of antiserum raised against *Phytophthora fragariae* with other *Phytophthora* species and its evaluation as a genus detecting antiserum *Plant Pathol.* **38**: 352-363.
- Nachmlas, A., Buchner, and Krikun, J. (1982).** Comparison of protein lipopolysaccharide complexes produced by pathogenic and non pathogenic strains of *Verticillium dahliae* Kleb. from potato. *Physiol. Plant Pathol.* **20**: 213-221.
- Nemec, S., Jabaji-Hare, S. and Charest, P.M. (1991).** ELISA and immunocytochemical detection of *Fusarium solani* produced naphthazarin toxins in citrus trees in Florida. *Phytopathology* **81** : 1497-1503.
- Ouchterlony, O. (1967).** In : Weir (ed.) Handbook of experimental immunology, Weir (ed.) (Blackwell Inc. London) p. 655.
- Padmadaya, B. and Reddy H.R. (1996).** Screening of *Trichoderma* spp. against *Fusarium oxysporum* f.sp. *lycopersici* causing wilt in tomato. *Ind. J. Mycol. Pl. Pathol.* **26** : 266-270.
- Phelps, D.C., Nemec, S., Baker, R. and Mansell, R. (1990).** Immunoassay for Naphthazarin phytotoxin produced by *Fusarium solani*. *Phytopathology* **80**: 298-302.
- Phookan, A.K. and Chaliha, K. (2000).** Biological control of collar rot of brinjal caused by *Sclerotinia sclerotiorum* by *Trichoderma* sp. in brinjal. Proceeding of

International Conference in *Integrated plant disease management for sustainable agriculture*, Indian Phytopathological society, IARI, New Delhi. pp. 322-323.

Podila, G.K.; Rosen, E.; San-Francisco, M.J.D. and Kolattukudy P.E. (1995). Targeted secretion of cutinase in *Fusarium solani* f.sp. pisi and *Colletotrichum gloeosporioides* *Phytopathology* 85 : 238-242.

Prasad, R.D., Rangeshwaran, R. and Sreerama Kumar (1999). Biological control of root and collar rot of sunflower. *J. Mycol. Plant Pathol.* 29:184-188.

Purkayastha, R. P. and Banerjee R. (1989). Immunoserological studies on cloxacillin-induced resistance of soybean against anthracnose. *Plant Dis. Prot.* 97: 350-359.

Purkayastha, R.P. and Chakraborty, B.N. (1983). Immuno-electrophoretic analysis of plant antigens in relation to biosynthesis of phytoalexin and disease resistance of soybean. *Trop. Plant Sci. Res.* 1(1) : 89-96.

Purkayastha, R.P. and Ghosal, A. (1985). Analysis of cross-reactive antigens of *Acrocyndrium oryzae* and rice in relation to sheath rot disease. *Physiol. Plant Pathol.* 27:245-252.

Purkayastha, R.P. and Pradhan, S. (1994). Immunological approach to study the etiology of *Sclerotium* rot disease of Groundnut. Proc. *Indian Nat. Sci. Acad.* B60 : 157-165.

Purkayastha, R. P. and Ghosh, A. (1987). Immunological studies on root rot of groundnut (*Arachis hypogea* L.). *Can. J. Microbiol.* 33:647-651.

Rafin, C., Nodet, P. and Tirilly, Y. (1994). Immuno-enzymatic staining procedure for *Pythium* species with filamentous non-inflated sporangia in soilless culture. *Mycol. Res.* 98:535-541.

Ranganathan, V. and Natesan, S. (1987). Manuring of Tea Revised Recommendation, *Hand Book of Tea Culture*, Section 11, p. 1-27.

- Rataj-Guranowska, M., and Wilko, B. (1991). Comparison of *Fusarium oxysporum* and *Fusarium oxysporum* var. *redolens* by analysing the isozyme and serological patterns. *Phytopathology* 132 : 287-293.
- Reddy, M.K. and Ananthanarayanan, T.V. (1984). Detection of *Ganoderma lucidum* in betelnut by the fluorescent antibody technique. *Trans. Br. Mycol. Soc.* 82: 559-561.
- Ricker, R.W. Marois, J.J., Dlott, J.W., Bostock, R.M. and Morrison, J.C.(1991). Immunodetection and quantification of *Botrytis cinerea* on harvested wine grapes. *Phytopathology* 81: 404-411.
- Roberts, A.M., Mackie, A.J., Hathaway, V., Callow, J.A. and Green, J.R. (1993). Molecular differentiation in the extra haustorial membrane of pea powdery mildew haustoria at early and late stages of development. *Physiological and Molecular Plant Pathology* 43:147-160.
- Samajpati, N. (1970). Studies on the physiology of higher fungi III. Effect of temperature, light and hydrogen ion-concentration on spore germination of *Fomes lividus* Kalchbr. *Bul. Bot. Soc. Beng.*, 24(1-2): 79-80.
- Sarkar, P. and Jayarajan, R. (1996). Seed treatments formulation of *Trichoderma* and *Gliocladium* for biological control of *Macrophomina phaseolina* in *Sesamum*. *Ind. Phytopathol.* 49 : 148-151.
- Segrest, J. P. and Jackson, R. L. (1972). Molecular weight determination of glycoproteins by polyacrylamide gel electrophoresis in sodium dodecyl sulphate. In *Methods in Enzymology*. 28B : 54-63. (Ed. V. Ginsburg). Academic Press New York.
- Shane, W.W. (1991). Prospects for Early Detection of *Pythium* blight epidemics on turfgrass by Antibody-Aided Monitoring. *Plant Dis.* 75 : 921-925.
- Sharma, M. and Sharma, S. K. (2001). Biocontrol of *Dematophara necatrix* causing white rot of apple *Plant Dis. Res.* 16: 40-45.

- Singh, R.S. (2001).** Commercialization of *Trichoderma* based biofungicides in the management of plant diseases. National Symposium on *Ecofriendly approaches*. January 22-24, Centre of Advanced study in Botany, Madras: 13-14.
- Sinha, A.K. (1995).** Possible role of phytoalexin inducer chemicals in plant disease control. In *Handbook of Phytoalexin Metabolism and Action* (Eds. M Daniel and R.P. Purkayastha), Marcel Dekker, Inc. pp. 555-591.
- Sivan, A., Elad, Y. and Chet, I. (1984).** Biological control effects of new isolate *Tricoderma harzianum* on *Pythium aphanidermatum*. *Phytopathology* **74**: 489-501.
- Srivastava, A.K. and Arora, D. K. (1997).** Evaluation of a polyclonal antibody immunoassay for detection, quantification of *Macrophomina phaseolina*. *Plant Pathol.* (Oxford) **46**: 735-794.
- Srivastava, H.C. and Bano, Z. (1970).** Nutrition requirements of *Pleurotus flabellatus*. *Appl. Microbiol.*, **19**(1): 166-169.
- Sreenivasaprasad, S. and Manidhushanarao, K. (1993).** Efficacy of *Gliocladium virens* and *Tricoderma longibrachiatum* biocontrol agents of groundnut root-rot and stem-rot disease. *Intl. J. Pest Management* **29**: 167-171.
- Sundaram, S., Plasencia, J. and Bantari, E.E. (1991).** Enzyme linked immunosorbent assay for detection of *Verticillium* sp. using antisera produced to *V. dahliae* from potato. *Phytopathology* **81**: 1485-1489.
- Takenaka, S. (1992).** Use of immunological methods with antiribosome serums to detect snow mold fungi in wheat plants. *Phytopathology* **82**: 896-901.
- Towbin H., Staehlin T. and Gordon J. (1979).** *Proceedings of National Academy of Science, U.S.A.* **76**: 4350-4354.
- Townsend, R & Archer, D. B. (1983).** A fibril protein antigen specific to *Spiroplasma*. *J. Gen. Microbiol.* **129**: 199-206.

- Unger, J.G. and Wolf, G. (1988). Detection of *Pseudocercospora herpotrichoides* (Fron) Deighton in wheat by indirect ELISA. *Phytopathology* 122: 281-286.
- Viswanathan, R; Padmanaban, P., Mohanraj, D. and Jothi, R (2000). Indirect ELISA technique for the detection of the red rot pathogen in sugarcane (*Saccharum* spp. hybrid) and resistance screening. *Ind. J. Agricul. Sc.* 70: 308-311.
- Voller, A., Bidwell, D.E., and Bartlett, A (1976). Enzyme Immunoassay in diagnostic medicine *Bull. W.H.O.* 53 : 55-65.
- Wakeham, A.J. and White, J.G. (1996). Serological detection in soil of *Plasmodiophora brassicae* resting spores. *Physiol. Mol. Plant Pathol.* 48:289-303.
- Walcz, I., Pacsa, A.S.I Emody and Szabo, L. Gy, (1985). Detection of *Sclerotinia sclerotiorum* in sunflower by Enzyme-Linked Immunosorbent assay (ELISA). *Trans. Br. Mycol. Soc.* 85: 485-488.
- Walsh, J.A., Merz, U. and Harrison, J. G. (1996). Serological detection of spore balls of *Spongospora subterranea* and quantification in soil. *Plant Pathology* 45: 884-895.
- Warnock, D.W.(1973). Use of immunofluorescence to detect mycelium of *Alternaria*, *Aspergillus* and *Penicillium*. *Trans. Br. Mycol. Soc.* 61: 547-552.
- Watabe, M. (1990). Immunofluorescent antibody technique for detecting *Phytophthora* in soil. *Phytopathol. Soc. Japan*, 56: 269-272.
- Werres, S. and Steffens, C. (1994). Immunological techniques used with fungal plant pathogens : aspects of antigens, and antibodies and assays for diagnosis. *Ann. Appl. Biol.* 125 :615-617.
- Wycoff, K.L and Ayers A.R. (1991). Localization of carbohydrate antigens in the walls of *Phytophthora megasperma* f. sp. *glycinea* by monoclonal antibodies. *Physiol. Mol Plant Pathol.* 39: 95-109.



Young, C.S. and Andrews, J.H.(1990).Inhibition of pseudothecial development of *Venturia inaequalis* by the Basidiomycete *Athelia bombacina* in apple leaf litter. *Phytopathology* 80: 536-542.

Yuen, G.Y., Xia, J.Q. and Sutula, C.L. (1988). A sensitive ELISA for *Pythium ultimum* using polyclonal and species-specific monoclonal antibodies. *Plant Dis.* 89: 1029-1032.

Yuen, G.Y., Kim, K. N. and Horst, G.L. (1994). Use of ELISA and isolation for determining the distribution of *Rhizoctonia solani* and other *Rhizoctonia* spp. In asymptomatic creeping bentgrass. *Crop Protection* 13(4) : 296-300.