

References

Abbott, L.K. (1973). Taxonomy and host specificity of *Ophiobolus graminies* Sacc; and application of electrophoretic and serological techniques, Ph.D Thesis. Monash Univ. Clayton, Victoria, Australia, p. 260

Abd-El-Rehim, M.A. and Hashem, M. (1970). A serodiagnostic method for the differentiation between resistant and susceptible Egyptian cotton varieties to infection with *Fusarium oxysporum*. *Phytopath. Z.* **68** : 180-182

Abd-El-Rehim, M.A., Ibrahim, I. A. and El - Namlah, E.M. (1971a). Serodiagnostic studies on *Citrus* spp. with respect to their resistance to *Phytophthora citrophthora* Alex. *J. Agar. Res.* **19 L** :145-147

Abd-El-Rehim, M. A., Ibrahim, I.A., Michail, S.H. and Fadel, F.M. (1971 b). Serological and immunoelectrophoretic studies on resistance and susceptible watermelon varieties to *Fusarium semitectum* Berk. *Ann. Rev. Phytopath. Z.* **71** : 49-55

Agnihotrudu, V. (1995). Some more important fungal diseases of tea. *Indian Phytopath.* **48** : 229 - 253

Aguelon, M.; Dunez, J. (1984). Immunoenzymatic techniques for the detection of *Phoma exigua* in infected potato tissues. *Ann. Appl. Biol.* **105**: 463-469

Ala-El-Dein, O. and El-Kady, S. (1985 a). Immunological comparison between isolates of *Botrytis cinerea* Pers. by using crossed immunoelectrophoresis techniques. *Acta. Phytopath. Hung.* **20** : 283 - 290

Ala-El-Dein, O. and El-Kady, S. (1985 b). Crossed immunoelectrophoretic studies on *Botrytis cinerea* Pers. and other *Botrytis* species. *Acta. Phytopath Hung.* **20** : 291-301

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 Moraes, W.B.C. (1983). Common antigens in extracts of *Hemileia vastarix* Berk. et Br. urediniospores and *Coffea arabica* L. leaves and roots. *Fitopathol. Brasileira* **8** : 473-483

- Alba, A.P.C., Namekata, T., Moraes, W.B.C., Oliveira, A.R. and Figueiredo, M.B. (1973). Serological studies on coffee rust. *Arg.Inst. Biol. Sao Paulo*, **40**: 227
- Alvarez, E.M. (1990). Antibody binding inhibition assay for detection of bacteria in plant tissues. In *Serological methods for detection and identification of viral and bacterial plant pathogens*. (Eds. R. Hampton, E. Ball and S. De Boers). St. Paul, Minnesota, USA: APS Press.
- Amos, E.R. and Burrell, G.(1967). Serological differentiation in *Ceratocystis*. *Phytopathology* **57** : 32-34
- Amouzou - Alladaye, E., Dunez, J., and Clarjean, M. (1988) . Immunoenzymatic detection of *Phytophthora fragariae* in infected strawberry plants. *Phytopathology* **78** : 1022-1026
- Ando, Y. and Hamaya, E. (1986). Defense reaction of tea plant against infection of the tea anthracnose fungus. *Study of tea* **69**: 35-43
- Arie, T., Namba, S., Yamashita, S., and Doi, Y. (1988). Detection of resting spores of *Plasmodiophora brassicae* Woron. from soil and root by Fluorescent antibody technique. *Phytopath. Soc. Japan* **54** : 242-245
- Banowetz, G.M., Trione, E.J., and Krygier, B.B. (1984). Immunological comparisons of teliospores of two wheat Bunt fungi, *Tilletia* species, using monoclonal antibodies and antisera. *Mycologia* **76** : 51-62
- Barker, H. and Harrison, B.D. (1985). Restricted multiplication of potato leaf roll virus in resistant potato genotypes. *Ann. Appl. Biol.* **107**: 205-212
- Baxter, L.W. (1974). Studies on the twig blight canker and dieback of *Camellia*. *American Camellia Year Book* **2**: 63-75
- Beckman K.B.; Harrison, J.G. and Ingram, D.S. (1994). Optimizatioin of a polyclonal enzyme linked immunosorbent assay (ELISA) of fungal biomass for use in studies of plant defence responses. *Physiol. Mol.Plant Pathol.* **44**: 19-32

- Beier, H. and Bruening, G. (1975).** The use of an abrasive in the isolation of cow pea leaf protoplasts which support the multiplication of cow-pea mosaic virus. *Virology* **64**: 272-276
- Beissman, B.; Engels, W.; Kogel, K.; Marticke, K.H. and Reisener, H.J. (1992).** Elicitor active glycoproteins in apoplastic fluids of stem rust infected wheat leaves. *Physiol. Mol. Plant Pathol.* **40**: 79-89
- Benhamou, N., Ouellette, G.B. Gardiner, R.B. and Day, A.W. (1986).** Immunocytochemical localization of antigen-binding sites in the cell surface of two ascomycete fungi using antibodies produced against fimbriae from *Ustilago violacea* and *Rhodotorula rubra*. *Can. J. Microbiol.* **32** : 871-833
- Benson, D.M. (1991).** Detection of *Phytophthora cinnamomi* in azalea with commercial serological assay kit. *Plant Dis.* **75** : 478-482
- Bertus, A.L. (1974).** Fungicidal control of *Camellia* dieback. *J. Hort. Sci.* **49**: 167-169
- Borpujari, N. and Banerjee, M.K. (1994).** Management of young Tea. In: *Field Management in Tea* (Ed. J. Chakravartee). Tocklai Experimental Station, Jorhat, Assam. pp. 50-57
- Bossence, J.M., and Mauri, Y. (1978).** Use of the ELISA technique for the detection of soybean mosaic virus in soybean seeds. *Plant Pathol.* **10** : 263-268
- Bossi, R. and Dewey, F.M. (1992).** Development of a monoclonal antibody-based immunodetection assay for *Botrytis cinerea*. *Plant Pathol.* **41**: 472-482
- Brill, L.M.; McClary, R.D. and Sinclair, J.B. (1994).** Analysis of two ELISA formats and antigen preparations using polyclonal antibodies against *Phomopsis longicolla*. *Phytopathology* **84** : 173-179
- Brown, R.G. and Kimmins, W.C. (1977).** Glycoproteins. *Int. Rev. Biochem.* **13** : 183-207
- Burdsall, H.H.Jr., Banik, M. and Cook, M.E. (1990).** Serological differentiation of three species of *Armillaria* and *Lentinula edodes* by enzyme-linked immunosorbent assay using immunized chickens as a source of antibodies. *Mycol. Soc. America.* **82** : 415-423

Burrell, R.G.; Clayton, C.W.; Gallegly, M.E. ; Killy, V.G. (1966) . Factors affecting the antigenicity of the mycelium of three species of *Phytophthora*. *Phytopathology* 56 : 522-526

Callow, J.A. (1982). Molecular aspects of fungal infection. In: *The molecular biology of plant development* (Eds. H. Smith, D. Grierson) Blackwell, Oxford, pp. 467-497

Callow, J.A. (1983). Biochemical Plant Pathology (Ed.). Wiley, New York, Chichester, Brisbane Toronto

Casper, R., and Mendgen, K. (1979). Quantitative serological estimation of a hyper parasite : 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 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). Alteration of 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 a). Accumulation of antifungal compound in tea leaf tissue infected with *Bipolaris carbonum*. *Folia Microbiol.* 39: 409-414

Chakraborty, B.N. and Saha, A. (1994 b). Detection and cellular location of cross reactive antigens shared by *Camellia sinensis* and *Bipolaris carbonum*. *Physiol.Mol. Plant Pathol.* 44 : 403-416.

Chakraborty, U., Basu, P., Das, R., Saha, A. and Chakraborty, B.N. (1996). Evaluation of antiserum raised against *Pestalotiopsis theae* for detection of grey blight disease of tea by ELISA. *Folia Microbiol.* 41: 413-418

Chakraborty, U; Das, G. and Chakraborty, B.N. (1995 a). Factors influencing spore germination, appressoria formation and disease development in *Camellia sinensis* by *Glomerella cingulata*. *Folia Microbiol.* 40: 159-164.

Chard, J.M., Gray, T.R.G., and Frankland, J.C. (1985). Use of an anti-*Mycena galopus* serum as an immunofluorescence reagent. *Trans. Br. Mycol. Soc.* 84: 243-249.

Charudattan, R. and DeVay, J.E. (1970). Common antigens among varieties of *Gossypium hirsutum* and *Fusarium* species and their possible significance in root infection p.25. In *Beltwide Cotton Production Res. Conf. Proc.*, Houston, Texas. 30th Cotton Disease Council, Memphis, Tenn.

Charudattan, R. and DeVay, J. E. (1972). Common antigen among varieties of *Gossypium hirsutum* and isolates of *Fusarium* and *Verticillium* species. *Phytopathology* 62 : 230-234.

Charudattan, R. and DeVay, J.E. (1981). Purification and partial characterization of an antigen from *Fusarium oxysporum* f.sp. *vasinfectum* that cross-reacts with antiserum to cotton (*Gossypium hirsutum*) root antigens *Physiol. Plant Pathol.* 18: 289-295.

Charudattan, R. and Hubbell, D.H. (1973). The presence and possible significance of cross-reactive antigens in *Rhizobium* legume association. *Antonie Van Leeuwenhoek* 39: 619-627.

Clark, M.F. (1981). Immunosorbent 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 Knippenberg) 64-65.

Cook, R.T.A. (1989). Control of *Glomerella cingulata* f.sp. *camelliae* with fungicides. *Plant Pathol.* 38 : 514-519.

Cowling, E.D.; Horsfall, J.G. (1978). Prologue; How Plants Suffer from Disease. In *Plant Dis.* 3: 1-18. (Eds. J.G. Horsfall, E.B. Cowling). New York: Academic Press.

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.

Damian, R.T. (1964). Molecular mimicry : antigen sharing by parasite and host and its consequences. *Amer. Natur.* 98 : 129-149

Daniel, G., and Nilsson, T. (1991). Antiserum to the fungus *Phialophora mutabilis* and its use in enzyme linked immunosorbent assays for the detection of soft rot in preservative treated and untreated wood. *Phytopathology* 81 : 1319-1325

Day, A.W., Gardiner, R.B., Smith, R. Svircev, A.M. and McKec, W.E. (1986). Detection of fungal fimbria by protein A-gold immunocytochemical labelling in host plants infected with *Ustilago heulferi* or *Peronospora hyoscyami* f.sp. *tabacina*. *Can. J. Microbiol.* 32 : 577-584.

Desjardins, A.E.; Gardner, H.W. (1989). Genetic analysis in *Gibberella pulicaris*: rishitin tolerance, rishitin metabolism, and virulence on potato tubers. *Molecular Plant Microbe Interactions* 2: 26-34.

DeVay, J.E. and Adler, H.E. (1976). Antigens common to host and parasites, *Annu. Rev. Microbiol.* 30 : 147-168

DeVay, J.E., Charudattan, R. and Wimalajeewa, D.L.S. (1972). Common antigenic determinants as possible regulators of host pathogen compatibility. *The Amer. Natur.* 106 : 185-194

DeVay, J.E., Schnathorst, W.C. and Foda, M.S. (1967). Common antigens and host parasite interactions. p. 313. In: The dynamic role of molecular constituents in plant parasite interaction. *Minneapolis*. Bruce p. 313-328

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 parasite. *Physiol. Plant Pathol.* 18: 59-66.

DeVay, U.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. Tsao. Ed. 43, Dept. of Plant Pathology. University of California, Riverside.

Dewey, F.M., Barrett, D.K., Vose, I.R., and Lamb, C.J. (1984). Immunofluorescence microscopy for the detection and identification of propagules of *Phaseolus schweinitzii* in infested soil. *Phytopathology*, 74 : 291-296.

Dewey, F.M., Munday, C.J. and Brasier, C.M. (1989). Monoclonal antibodies to specific components of the Dutch elm disease pathogen *Ophiostoma ulmi*. *Plant Pathol.* 38 : 9-20.

Dickens, J.S.W. and Cook, R.T.A. (1989). *Glomerella cingulata* on *Camellia*. *Plant Pathol.* 38 : 75-85.

Doubly, J.A.; Flor, H.H. and Clagett, C.O. (1960). Relation of antigens of *Melampsora lini* and *Linum usitatissimum* to resistance and susceptibility. *Science* 131: 229.

Duncan, J.M. (1980). A technique for detecting red stele (*Phytophthora fragariae*) infection of strawberry stocks before planting. *Plant Dis.* 64 : 1023-1025.

El-Nashaar, H.M.; Moore, L.W.; George, R.A. (1986). The use of ELISA for early quantification of *Gaeumannomyces graminis tritici* associated with winter wheatroot. *Phytopathol.* 76: 546-552.

Fuhrmann, B., Roquebert, M.F., Hoegaerden M.V., and Strasberg, A.D. (1989). Immunological differentiation of *Penicillium* species. *Can. J. Microbiol.* 35 : 1043-1047.

Gendloff, E.H.; Ransdell, D.C. and Burton, C.L. (1983). Fluorescent antibody studies with *Eutypa armeniaceae*. *Phytopathol.* 73: 760-764.

- 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. Exp. Biol.* 28 : 1-5.
- Gleason, L.M., Ghabrial, A.S. and Ferriss, S.R. (1987).** Serological detection of *Phomopsis longicola* soybean seeds. *Phytopathology* 77 : 371-375. 1987.
- Hansen, M.A. and Wick, R.L. (1993).** Plant disease diagnosis: Present status and future prospects. *Adv. Plant Pathol.* 10: 66-126.
- Hardham, A.R., and Suzaki, E. (1990).** 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.
- 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
- Heide, M. and Swedegard-Peterson, V. (1985).** Common antigens between barley and barley powdery mildew and their relation to resistance and susceptibility . *Can. J. Plant Pathol.* 7: 341.
- Heitefuss, R., Buchanen - Davidson, D.J. Stahmann, M.A. and Walker, J.C. (1960).** Electrophoretic and Immunochemical studies of proteins in cabbage infected with *Fusarium oxysporum* f. *conglutinans*, *Phytopathology* 50 : 198.
- Hoch, H.C. and Staples, R.C. (1987).** Structural and chemical changes among the rust fungi during appressorium development. *Annu. Rev. Phytopathol.* 25: 231-247.

- Holtz, B.A.; Karu, A.E. and Weinhold, A.R. (1994). Enzyme linked immunosorbent assay for detection of *Thielavopsis basicola*. *Phytopathology* 84: 977-983.
- Hornok, I. and Jagicza, A. (1973). Fluorescent antibody staining of *Fusarium culmorum*, Acta. *Phytopathol. Hunga.* 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, Y., 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 of 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.
- Johnson, M.C., Pirone, T.P., Siegel, M.R., and Varney, D.R. (1982). Detection of *Epichloe typhina* in tall fescue by means of enzyme-linked immunosorbent assay. *Phytopathology* 72: 647-650.
- Kalyanasundaram, R.; Lakshminarasimhan, C. and Venkataraman, S.(1975). Common antigen in host parasite relationship. *Curr. Sci.* 44: 55.
- Kalyanasundaram, R., Lakshminarasimhan, C. and Venkataraman, S. (1978). Antigenic relationship between host and parasite in *Fusarium* wilt of cotton. In : T.S.Sadasivan, C.V.Suramanian, R. Kalyansundaram, L. Sarswathi-Devi (ed.) 348. The University of Madras, India.
- Kato, M. (1989). *Camellia sinensis* L. (Tea) In Vitro regeneration, In: *Biotechnology in Agriculture and Forestry*, Y.P.S.Bajaj (ed.). Springer. Verlag, Berlin Heidelberg, pp.81-98.

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.

Kitagawa, T., Sakamoto, Y., Furumi, K., and Ogura, H. (1989). Novel enzyme immunoassays for specific detection of *Fusarium oxysporum* f.sp. *cucumerinum* and for general detection of various *Fusarium* species. *Phytopathology* 79: 162-165.

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., Hobolth, L. and Olson W.L.(1989). Serological detection of *Plasmiodiophora brassicae* by dot immunobinding and visualization of the serological reactions by scanning electron microscopy. *Phytopathology* 79 : 1066-1075

Lherminer, J., Courtois, M. and Candwell, A. (1994). Determination of the distribution and multiplication sites of Flavescence Dorée mycoplasma-like organisms in the host plant *Vicia faba* by ELISA and Immunocytochemistry, *Physiol. Mol. Plant Pathol.* 45 : 125-138.

Linfield, C.A. (1993). A rapid serological test for detecting *Fusarium oxysporum* f.sp. *narcissi* in *Narcissus*. *Ann. Appl. Biol.* 120 : 685-693.

Lis, H. and Sharon, N. (1986). Lectins as molecules and as tools. *Annu. Rev. Biochem.* 55 : 35-47.

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 realations. *Annu. Rev. Phytopathol.* 21: 241-362.

Lowry, O.H., Roseborough, 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.; Stites, J. and Kabashima, J. (1990). Comparison of serological and culture plate method for detecting species of *Phytophthora*, *Pythium* and *Rhizoctonia* in ornamental plants. *Plant Dis.* **74**: 655-659.

Mackie, A.J.; Roberts, A.M.; Green, J.R. and Callow, J.A. (1993). Glycoproteins recognised by antibodies UB7, UB8 and UB10 are expressed early in the development of pea powdery mildew haustoria. *Physiol. Mol. Plant Pathol.* **43**: 135.

Masago, H., Yoshikawa, M., Matsumoto, T., Katsumoto, M., Ogata, H., and Kishibe, Y. (1989). Differentiation and identification of *Phytophthora* species by two-Dimensional electrophoresis. *Phytopathol. Soc. Japa* **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. (1969). A serological comparison of six heterothallic species of *Phytophthora*. *Phytopathology* **59**: 367-370.

Michael, R. and James, E.P. (1981). Immunochemical identification of *Fusarium moniliformae* ribosomes from diseased corn (*Zea mays*. L.) stalk tissue. *Physiol Plant Pathol.* **19**: 277-288.

Miller, S.A.; Grothans, G.D.; Peterson, F.P. and Papa, S.L. (1986). Detection of *Pythium* blight in turfgrass using a monoclonal antibody based diagnostic test (Abstr.) *Phytopathology* **76**: 1057.

Miller, S.A., Grothans, G.D., Patersen, F.P., Rittenhurg, J.H., Plumley, K.A., and Lankow, R.K. (1989). Detection and monitoring of turfgrass pathogens by immunoassay. Pages 109-120. In : EPA Integrated Pest Management for Turfgrass and Ornamentals A.R. Leslie and R.L Metcalf, eds. Environmental Protection Agency, Washington DC.

Mittermeier, L.; Dercks, W; West, S.J.E. and Miller, S.A. (1990). Field results with a diagnostic system for the identification of *Septoria nodorum* and *Septoria tritice*. *Proceedings of the Brighton Crop protection conference-Pests and Diseases* 757-762. British Crop Protection Council, Thornton Heath, Surrey.

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 Pathol* 27: 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

Murashige, T., and Skoog, F. (1962). A revised medium for rapid growth and bioassay with tobacco tissue culture. *Physiol. Plant* 15 : 473-497.

Nameth, S.T., Shane, W.W., and Stier, J.C. (1990). Development of a monoclonal antibody for detection of *Leptosphaeria korrae*, the causal agent of necrotic rings spot disease of turfgrass. *Phytopathology* 80 : 1208-1211.

Ouchterlony, O. (1967). In : Weir (ed.) Handbook of experimental immunology, Weir (ed.) (Blackwell Inc. London) p. 655.

Palmerley, R.A. and Callow. J.A. (1978). Common antigens in extracts of *Phytophthora infestans* and potatoes. *Physiol. Plant. Pathol.* 12 : 241.

Petersen, F.P.; Rittenburg, J.H.; Miller, S.A. and Grothans, G.D. (1990). Development of monoclonal antibody based immunoassays for detection and differentiation of *Septoria nodorum* and *S. tritici* in wheat. *Proceeding of the Brighton Crop Protection Conference-Pests and Diseases*, 751-756. British Crop Protection Council, Thornton Heath, Surrey.

Phelps C.D., Nemec, S., Baker R. and Mansell R. (1990). Immunoassay for Naphthazarin phytotoxin produced by *Fusarium solani*. *Phytopathology* 80: 298-302

Priestley A. and Dewey, F.M. (1993). Development of a monoclonal antibody immunoassay for eye spot pathogen *Pseudocercospora herpotrichoides*. *Plant Pathol.* **42:** 403-412

Protsenko, M.A. and Ladyzhenskaya, E.P. (1989). Detection of an antigen common to Potato lateblight fungus and its host plant by double immunodiffusion in gel. *Appl. Biocem. Microbiol.* **24:** 576.

Pscheit, J.W., Burket, J.Z., Fischer, S.L. and Hamm, P.B. (1992). Sensitivity and clinical use of *Phytophthora* specific immunoassay kits. *Plant Dis.* **76 :** 928-932.

Purkayastha, R.P. (1973). Phytoalexins reaction to plant disease control. *Sci. Cult.* **42:** 586

Purkayastha, R.P. (1989). Specificity and disease resistance in plants. Presidential address, section Botany, 76th session of the Indian Science Congress, Madurai.

Purkayastha, R.P. (1994). Phyto-immunology an emerging discipline of Plant Science. *Everyman's Science*, **29(2):** 41-44.

Purkayastha, R.P. and Banerjee, R. (1986). Immunological studies on anthracnose disease of soybean. *Int. J. Trop. Plant Dis.* **4(1) :** 77

Purkayastha, R.P. and Banerjee, R. (1990) . Immunoserological studies on cloxacillin-induced resistance of soybean against anthracnose. *J. Plant Dis. Prot.* **97:** 349-359.

Purkayastha, R.P. and Chakraborty, B.N. (1983). Immunoelectrophoretic analysis of plant antigens in relation to biosynthesis of phytoalexin and disease resistance of soybean. *Trop. Plant Sci. Res.* **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 Ghosal, A. (1987). Immunoserological studies on root rot of ground nut (*Arachis hypogea L.*) *Can. J. Microbiol.* **33 :** 647-651

Purkayastha, R.P. Ghosal, A., Garai, M. and Ghosh, S. (1991). Cross reactive antigens as determinants of susceptibility of pigeon pea cultivars to Fusarial wilt ; In Botanical Researches in India (ed. N.C.Aery, B.L.Chaudhury)508 Himanshu Publications, Udaipur, India

Purkayastha, R.P. and Menon, U. (1981). Factors affecting appressoria formation by *Colletotrichum corchori*. *Trans. Br. Mycol. Soc.* 77: 185-187.

Purkayastha, R.P. and Pradhan, S. (1994). Immunological approach to study the etiology of *Sclerotium* rot disease of ground nut. *Proc. Indian Natn. Sci. Acad.* B60, No.2 pp. 157.

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

Ransom, R.F.; Hipskind, J.; Leite, B.; Nicholson, R.L. and Dunkle, L.D. (1992). Effects of elicitor from *Colletotrichum graminicola* on the response of sorghum to *Periconia circinata* and its pathotoxin. *Physiol. Mol. Plant Pathol.* 41: 75-84.

Rataj-Guranowska M. and Wolko B. (1991).Compariosn of *Fusarium oxysporum* and *Fusarium oxysporum* var. *redolens* by analyzing the isozyme and serological patterns. *J. Phytopathol.* 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 hanvested wine grapes. *Phytopathology.* 81: 404-411

Savage, S.D., and Sall, M.A. (1981). Radioimmunosorbent assay for *Botrytis cinerea*. *Phytopathology* 71 : 411-415.

Schmitthenner A.F. (1988). ELISA detection of Phytophthora from soil. (Abstr.) *Phytopathology* 78 : 1576.

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.

Shaik, M. and Steadman, J.R. (1989). The effect of leaf developmental stage on the variation of resistant and susceptible reactions of *Phaseolus vulgaris* to *Uromyces appendiculatis*. *Phytopathology* 79: 1028-1035.

Shane W.W. (1991). Prospects for early detection of *Pythium* blight epidemics on turfgrass by antibody aided monitoring *Plant Dis.* 75 : 921-925.

Staples, R.C. and Macko, V. (1994). Germination of urediospores and differentiation of infection structures. In: *The Cereal Rusts*, (Eds. W.R. Bushnell and A.P. Foelfs), New York, Academic Press, 1: 255-289.

Sundaram, S., Plasencia, J., and Bantari, E.E. (1991). Enzyme linked immunosorbent assay for detection of *Verticillium* spp. using antisera produced to *V.dahliae* from potato. *Phytopathology* 81 : 1485-1489

Unger J.G. and Wolf.G.(1988). Detection of *Pseudocercospora herpotrichoides* (Fron) Deighton in wheat by indirect ELISA. *J. Phytopathol.* 122 : 281-286

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., Emody, I. and Szabo, L.G. (1985). Detection of *Sclerotinia sclerotiorum* in sunflower by enzyme-linked immunosorbent assay (ELISA) *Trans. Br. Mycol. Soc.* 85: 485-488.

Warnock, D.W. (1973). Use of immunofluorescence to detect mycellium of *Alternaria*, *Aspergillus* and *Penicillium* in barley grains. *Trans. Br. Mycol. Soc.* 61: 547-552.

- Ward, E.W.D., Cahill, D.M., and Bhattacharya, M.K. (1989). Abscissic acid suppression of phenylalanine ammonialyase activity and mRNA, and resistance of soybeans to *Phytophthora megasperma* f. sp. *glycine*. *Plant Pathol.* **91**: 23-27.
- Watabe, M. (1990). Immunofluorescent antibody technique for detecting *Phytophthora* in soil. *Phytopathol. Soc. Japan*, **56** : 269-272.
- Werres, S. and Casper R. (1987). Detection of *Phytophthora fragariae* Hickman in roots of strawberry cultivar 'Tenira' by enzyme linked immunosorbent assay (ELISA). *J. Phytopathol.* **118** : 367-369
- Werres, S. and Steffens, C. (1994). Immunological techniques used with fungal plant pathogens; aspects of antigens, antibodies and assays for diagnosis. *Ann. Appl. Biol.* **125**: 615-643.
- White, J.G., Lyons, N.F., Wakeham, A.J., Mead, A. and Green, J.R. (1994). Serological profiling of the fungal genus *Pythium*. *Physiol. Mol. Plant Pathol.* **44** : 349-361.
- Willianson, P.M.; Than, K.A., Sivasithamparam, K., Cowling, W.A. and Edger, J.A. (1995). Detection of resistance to *Diaporthe toxica* in asymptotically infected lupin seedlings based on an immunoassay for phomopsisin. *Plant Pathol.* **44** : 95-97.
- Wimalajeewa, D.L.S. and DeVay, J.E. (1971). The occurrence and characterization of a common antigen relationship between *Ustilago maydis* and *Zea mays*. *Physiol. Plant. Pathol.* **1** : 523.
- Wyllie, T.D. and DeVay, J.E. (1970). Immunological comparison of isolates of *Verticillium alboatrum* and *V.nigrescens* pathogenic to cotton. *Phytopathology* **60**: 1682.
- Yanase, Y. and Takeda, Y. (1987). Methods for testing the resistance to tea grey blight disease caused by *Pestalotia longiseta* Spegazzini in tea breeding. In *Bulletin of the National Research Institute of Vegetables, Ornamental Plants and Tea. Series B. (Kanaya)*, **1**: 1-9.

