

## BIBLIOGRAPHY

BIBLIOGRAPHY

- Aist, J.R. 1976. Papillae and related wound plugs of plant cells. Ann. Rev. Phytopathol., 14: 145-163.
- Albersheim, P. 1977. An introduction to the research on elicitors of phytoalexin accumulation. In : Cell Wall biochemistry related to specificity in Host-Plant pathogen interactions (B. Solheim and J. Rao eds) pp. 129-136. Universitetsforlaget, oslo, Norway.
- Albersheim, P. and A.J. Anderson-Prouty, 1975. Carbohydrates, proteins, Cell surfaces and the biochemistry of pathogens. Ann. Rev. Plant. Physiol., 26: 31-52.
- Albersheim, P., Ayers, A.R., Jr. Valent, Ebel, J. Hahn, M., Wolpert, J. and R. Carlson, 1977. Plants interact with microbial polysaccharides. J. Supramol. Struct., 6: 599-616.
- Albersheim, P. and B.S. Valent 1978. Host-pathogen interactions in plants. Plants, when exposed to oligosaccharides of fungal origin, defend themselves by accumulating antibiotics. J. Cell Biol., 78: 627-643.
- Alcubilla-Martin, M. 1970. Fungus inhibitors in spruce bark Landwrit. Forsch., 25 : 96-101.
- Allen, P.J. 1959. Physiology and biochemistry of defense. Plant Pathology, I, Academic Press, New York, 435-467.
- Anajeyulu, V., Harichandra, K., Ravi, K. and V.D. Connolly. 1985. Triterpenoids from Mangifera indica. Phytochemistry, 24: 2359-2360.
- Anderson, A.J. 1978. Isolation from three species of Colletotrichum of glucan containing polysaccharides

- that elicit browning and phytoalexin production in bean. Phytopathology, 68: 189-194.
- Anderson-Prouty, A.J. and P.Albersheim. 1975. Host-pathogen interactions VIII. Isolation of a pathogen synthesised fraction rich in glucan that elicits a defense response to the pathogen's host. Plant physiol., 56: 286-291.
- Ansari, M.A.E., Rajadurai, S. and Y.Nayudama. 1967. 7,3'4-OH flavonone from bark of Mangifera indica. Leather Sci. (Madras), 14: 247.
- Asada, Y. Matsumato, I and T.Tashiro. 1972. The formation of phenolic acids in the root of Downy mildew-infected japanese radish. Ann. Phytopath.Soc. Japan , 38: 405-409.
- Ayers,A.R., Ebel, J., Finelli, F., Berger, N. and P.Albersheim. 1976a. Host pathogen interactions IX. Quantitative assays of elicitor activity and characterization of the elicitor present in the extracellular medium of cultures of Phytophthora megasperma var.sojal. Plant Physiol. (Bethesda), 57: 751-759.
- Ayers, A.R., Ebel, J., Valent, B and P.Albersheim. 1976b. Host pathogen interactions X, Fractionation and biological activity of an elicitor isolated from the mycelial walls of Phytophthora megasperma var sojal. Plant physiol. (Bethesda), 57: 760-765.
- Bailey, J.A. 1969. Phytoalexin production by leaves of Pisum sativum in relation to senescence. Ann. Appl. Biol.,64: 315-324.

- Bailey, J.A. 1973. Production of antifungal compounds in cowpea (Vigna sinensis) and pea (Pisum sativum) after virus infection. J. Gen. Microbiol., 75: 119-123.
- Bailey, J.A. 1974. The relationship between symptom expression and phytoalexin concentration in hypocotyls of phaseolus vulgaris infected with Colletotrichum lindemuthianum. Physiol. Plant Pathol., 4: 477-488.
- Bailey, J.A., Burden, R.S. and C.G. Vincent. 1975. Capsidol: an antifungal compound produced in Nicotiana tabacum and N. clevelandii following infection with tobacco necrosis virus. Phytochemistry, 14: 597.
- Bailey, J.A. and B.J. Deverall 1971. Formation and activity of phaseollin in the interaction between bean hypocotyls (Phaseolus vulgaris) and physiological races of Colletotrichum lindemuthianum Physiol. Plant Pathol., 1: 435-449.
- Bailey, J.A. and J.L. Ingham. 1971. Phaseollin accumulation in bean (Phaseolus vulgaris) in response to infection by tobacco necrosis virus and the rust Uromyces appendiculatus. Physiol. Plant Pathol., 1: 451-456.
- Bailey, J.A. and J.W. Mansfield. 1982. Phytoalexins. Blackie, Glasgow and London, p. 319.
- Bailey, J.A. and R.A. Skipp. 1978. Toxicity of phytoalexins. Ann. Appl. Biol., 89: 354-358.
- Bate Smith, E.C. 1972. Chemistry and phylogeny of the angiosperms. Nature, 236: 353-354.

- Bell, A.A. 1967. Formation of gossypol in infected or chemically irritated tissues of Gossypium species. Phytopathology, 57: 759-764.
- Bell, A.A. and J.T.Presley. 1969a. Temperature effects upon resistance and phytoalexin synthesis in cotton inoculated with Verticillium albo-atrum. Phytopathology, 59: 1141-1146.
- Bell, A.A. and J.T. Presley. 1969b. Heat-inhibited or heat-killed conidia of Verticillium albo-atrum induced disease resistance and phytoalexin synthesis in cotton. Phytopathology, 59: 1147-1151.
- Bell, A.A. and J.T. Presley. 1969c. Temperature effects upon resistance and phytoalexin synthesis in cotton inoculated with Verticillium albo-atrum. Phytopathology, 59: 1141-1146.
- Berkenkamp, B. 1971. Effect of coumarin on some pathogens of sweet clover. Can. J. Plant. Sci., 51: 299-303.
- Bhargawa, K.K., Dayal, R. and T.R.Sheshadri. 1974. Chemical components of Syzygium stem bark. Curr.Sci., 43(20): 645.
- Bhargawa, P.N. and R.P.Singh 1958. Studies on mahua sterol from Madhuca indica. J. Ind. Chem. Soc., 35: 763.
- Bhattacharjee, A.K. and A.K.Das. 1969. Phytochemical survey of few mysore plants. Eco.Bot., 23(3): 274-276.
- Bhatia, I.S., Uppal, D.S. and K.L.Bajaj. 1972. Study of phenolic contents of resistant and susceptible varieties of tomato (Lycopersicum esculentum) in relation to early blight disease. Ind. Phytopath., 25: 231-235.
- Birch, A.J. 1966. Some natural antifungal agents. Chem. Indust., p. 1173-1176.

- Birnbaum, G.I., Huber, C.P., Post, M.L. and J.B.Stothers. 1976.  
Sesquiterpenoid stress compounds of Datura stramonium :  
biosynthesis of the three major metabolites from 1,2-<sup>13</sup>C  
acetate and the x-ray structure of 3-hydroxylubmin. J.  
Chem.Soc. Comm., 330-331.
- Bordoloi, D., Baruah, J.N., Ganguly, D., and P.R.Rao. 1964.  
Effect of polyphenolic extracts of Cassia fistula and  
Acacia catachu on the spore germination of Colletotrichum  
falcatum, Curr.Sci., 33: 408.
- Borys, M.W. and N.F. Childers. 1964. The growth of Fusicoccum  
amygdali in vitro as influenced by pH, phenolic compounds  
and unpurified extracts from peach twigs. Acta.Microbiol.  
Polon., 13: 211-220.
- Bose, J.L. and S. Siddiqui. 1948. Chemical examination of Mango  
blossoms. J. Sci. Ind. Res. (India), 78 : 100.
- Bostock, R.M., Kuć, J. and R.A. Laine. 1981. Eicosapentanoic and  
arachidonic acids from Phytophthora infestans elicit  
fungitoxic sesquiterpenes in the potato. Science, 212 :  
67-69.
- Bridge, M.A. and W.L.Klarman. 1973. Soybean phytoalexin,  
hydroxyphaseollin, induced by ultraviolet irradiation.  
Phytopathology, 63: 606-609.
- Budde, A.D. and J.P. Helgeson. 1981. Phytoalexins in tobacco  
callus tissues challenged by zoospores of Phytophthora  
parasitica var nicotiana. Phytopathology, 71: 206.
- Burden, R.S., Rowell, P.M., Bailey, J.A., Loeffler, R.S.T., Kemp.  
M.S. and C.A.Brown. 1985. Debneyol, a fungicidal sesquiterpene  
from TNV infected Nicotiana debneyi. Phytochemistry, 24: 2191-2194.

- Cartwright, D., Langaake, P., Pryce, R.J., Leworthy, D.P. and J.P.Ride, 1977. Chemical activation of host defence mechanisms as a basis for crop protection. Nature, 267: 511-513.
- Cartwright, D.W. and G.E.Russel. 1981. Possible involvement of phytoalexins in durable resistance of winter wheat to yellow rust. Trans. Br. mycol.Soc., 76: 323-325.
- Chakraborty, D.P., Dasgupta, A and P.K.Bose. 1957. Antifungal action of some natural coumarins. Ann. Biochem.Exp.Med. (India), 17: 59-62.
- Chakraborty, D.P., Sen, M and P.K.Bose, 1961. Antibiotic properties of some natural coumarins. Trans.Bose.Res.Inst., 24: 31-34.
- Chalova, L.I., Ozeretskorskaya, O.L., Yurganova, L.A., Baramide, C.G. Protsenko, M.A., D'Yakov, Y.T. and L.V.Metlitskii. 1976. Metabolites of phytopathogenic fungi as elicitors of defense reactions in plants. Dokl.Akad.Nauk.SSSR, 230: 722-725.
- Chalova, L.I., Vasyukova, N.I., Ozeretskorskaya, D.L. and L.V. Metlitskii. 1971. Chemical identification of one of the potato phytoalexins. Prik. Biokhim. Mikrobiol., 7: 55-58.
- Chamberlain, D.W. and J.D.Paxton- 1968. Protection of soybean plants by phytoalexin. Phytopathology, 58: 1349-1350.
- Chandramohan, D., Mahadevan, A and G. Rangaswami. 1967. Studies on some biochemical properties of leaf tissue of Amaranthus tricolor as related to resistance by Alternaria sp. Ind. Phytopath. 20: 109-113.
- Chaturvedi, S.K. and V.K.Saxena. 1985. Quercetin-3-O- $\beta$ -D-galactopyranosyl (1 $\rightarrow$ 4)-O- $\alpha$ -L-rhamnopyranoside from

- root of Anogeissus latifolia. J. Ind.Chem.Soc., 62: 76.
- Chigrin, V.V. and L.V.Rozuru. 1969. Changes in phenolic metabolism of spring wheat infected with stem rust. Societ. Plant Physiol. 16: 269-273.
- Chopra, R.N., Nayar, S.L. and J.C.Chopra. 1956. Glossary of Indian Medicinal plants. CSIR, New Delhi.p-20.
- Clarke,D.D. 1973. The accumulation of scopolin in potato tissue in response to infection. Physiol. Plant Path., 3: 347-
- Clarke,D.D. and P.S.Baines. 1976. Host control of scopolin accumulation in infected potato tissue. Physiol. Plant Path., 9: 199-203.
- Clauss, E. 1961. Die phenolischen inhaltstoffe der Samenschalen von Pisum sativum L. und ihre Bedeutung fur die Resistenz gegen die Erreger der Fusskrankheit. Naturwissenschaften, 48: 106.
- Condon, P and J. Kuc-1960. Isolation of a fungitoxic compound from carrot root tissue inoculated with ceratocystis fimbriata. Phytopathology, 50: 267-270.
- Cruickshank, I.A.M. 1962. Studies on phytoalexins IV. The antimicrobial spectrum of pisatin. Australian journal of Biological Sciences, 15: 147-159.
- Cruickshank, I.A.M. 1963. Phytoalexins. Ann.Rev.Phytopathol., 1 : 351-373.
- Cruickshank, I.A.M. 1980. "Defenses triggered by the invader: Chemical defenses" in : Plant disease, Vol.V (eds.J.G. Horsfall and Cowling), Academic Press, New Uork and London.



- Cruickshank, I.A.M. and D.R.Perrin. 1960. Isolation of a  
Phytoalexin from Pisum sativum L. Nature, 187: 797-800.
- Cruickshank, I.A.M., and D.R.Perrin. 1963. Phytoalexins of the  
leguminosae. Phaseolin from Phaseolus vulgaris L. Life  
Sci., 2: 680-682.
- Cruickshank, I.A.M. and D.R.Perrin. 1965. Studies on Phytoalexins  
VII. The effect of some further factors on the formation,  
stability and localization of pasatin in vivo. Aust. J.  
Biol. Sci., 18: 817-828.
- Cruickshank, I.A.M. and D.R.Perrin 1968. The isolation and  
partial characterisation of monilicoln A, a polypeptide  
with phaseollin-inducing activity from Monilinia  
fructicola. Life.Sci., 7: 449-458.
- Cruickshank, I.A.M. and Perrin,D.R. 1971. Studies on  
phytoalexins XI. The induction antimicrobial spectrum  
and chemical assay of phaseollin. Phytopathologische  
zeitschrift, 70: 209-229.
- Cruickshank, I.A.M., Perrin,D.R. and M.Mandryk. 1976. Capsidol  
produced by tobacco infected with Peronospora hyoscyami  
f.sp. tabacina. Ann.Rep. Div. Plant. Ind., CSIRO,  
Australia, 1975, 65.
- DaCòsta,E.W.B. and F.Rudman 1958. The causes of natural  
durability in timber. I. The role of toxic extractives  
in the resistance of tallow wood (Eucalyptus microcorys  
F.Muell) to decay. Aust. J. Biol. Sci., 11: 45-57.

- Daniels, D.L. and L.A. Hadwiger. 1976. Pisatin-inducing components in filtrates of virulent and avirulent *Fusarium solani* cultures. Physiol. Plant. Pathol., 8: 9-19.
- Darvill, A.D and P. Albersheim. 1984. Phytoalexins and their elicitors - A defense against microbial infection in plants. Ann. Rev. Plant. Physiol., 35: 243-75.
- Dastur, J.F. 1977. Medicinal plants of India and Pakistan Taraporewalla Sons & Co. Pvt.Ltd.,
- Davis, D. Waggoner, P.E. and A.E. Diamond, 1953. Conjugated phenols in the *Fusarium* wilt syndrome. Nature, 172: 959.
- Deverall, B.J. 1976. Current perspectives in research on phytoalexins. In: Biochemical aspects of plant-parasite relationships. (J. Friend and Threfall, eds) pp. 207-223. Academic Press, New York.
- Deverall, B.J. 1977. Defense mechanisms of plants. Cambridge monographs in experimental biology, No.19, Cambridge University Press, Cambridge.
- De Wit, P.J.G.M. and W. Flach. 1979. Differential accumulation of phytoalexins in tomato leaves but not in fruits after inoculation with *Cladosporium fulvum*. Physiol. Plant. Pathol., 15, 257-267.
- De Wit, P.J.G.M. and E. Kodde. 1981. Further characterisation and cultivar-specificity of glycoprotein elicitors from culture filtrates and cell walls of *Cladosporium fulvum* Physiol. Plant. Pathol., 18: 297-314.
- De Wit, P.J.G.M. and P.H.M. Roseboom. 1980. Isolation, partial characterization and specificity of glycoprotein elicitors from culture filtrates, mycelium and cell

- walls of Cladosporium fulvum (Syn. Fulvia fulva).  
Physiol. Plant Pathol., 16: 391-408.
- Dey, K.L. 1984. Indigenous drugs of India. International book distributors, Dehradun.
- Dhruwa, B.R., Rama Rao, R.A.V., Srinivasan, R. and K.Venkataraman. 1972. Structure of a quinone from Teak tissue culture. Indian J. Chem., 10(7): 683-685.
- Dixit, S.N., Tripathi, N.N. and S.C. Tripathi 1978. Fungitoxicity of some seed extracts. Natl. Acad. Sci. Letts., 1: 287-288.
- Dixon, R.A. and C.J. Lamb. 1979. Stimulation of de novo synthesis of L-phenylalanine ammonia lyase in relation to phytoalexin accumulation in Colletotrichum lindemuthianum elicitor-treated cell suspension cultures of French bean (Phaseolus vulgaris) Biochem. Biophys. Acta, 586: 453-463.
- Doke, N., Sakai, S. and Tomiyama, K. 1979. Hypersensitive reactivity of various host and nonhost plant leaves to cell wall components and soluble glucan isolated from phytophthora infestans. Ann. Phytopath. Soc., Japan, 45: 386-393.
- Dow, J.M. and J.A. Callow. 1979. Leakage of electrolytes from isolated leaf mesophyll cells of tomato induced by glycopeptides from culture filtrates of Fulvia fulva (Cooke) Ciferri (Syn. Cladosporium fulvum). Physiol. Plant Pathol., 15: 27-34.
- Duczek, L.J. and V.J. Higgins. 1976. Effect of treatment with the phytoalexins medicarpin and maackiain on fungal growth in vitro and in vivo. Can. J. Bot., 54: 2620-2629.

- Egawa, H. Tsutsui, D., Tatsuyama, K. and T. Hatta. 1977.  
Antifungal substances found in leaves of Eucalyptus  
species. Experimentia, 33: 889-890.
- Elsessi, H.I. and N.A.M. Sateh. 1965. Phenolic components of  
Mangifera indica. Part.II. Planta medica, 13: 346.
- Essenberg, H., Hamilton, B., Cason, E.T.Jr., Brinkerhoff, L.A,  
Gholson, R.K. and P.E. Richardson. 1979. Localized  
bacteriostasis indicated by water dispersal of colonies  
of Xanthomonas malvacearum within immune cotton leaves.  
Physiol. Plant-Pathol., 14: 69-78.
- Evans, R.L. and D.J.Pluck. 1978. Phytoalexins produced in  
barley in response to the halo spot fungus, Selenophoma  
donacis. Ann. Appl. Biol., 89: 332-336.
- Farkas, G.L. and Z. Kiraly. 1962. Role of phenolic compounds in  
the physiology of plant disease and disease resistance.  
Phytopath. Z., 44: 105-150.
- Flor, H.H. 1956. The complimentary genic systems in flax and  
flax rust. Advan. Genet., 8: 29-54.
- Frank, J.F. and G.A. Somkuti. 1979. General properties of beta-  
galactosidase of Xanthomonas campestris. Appl. Environ.  
Microbiol., 38: 554-556.
- Friend, J. 1976. "Lignification in infected tissue", in :  
Biochemical aspects of plant-parasite interactions.  
(eds. J. Friend and D.Threlfall), Academic Press, 291-3031.
- Fritig, B., Hirth, B. and G.Ourisson. 1972. Biosynthesis of  
phenolic compounds in healthy and diseased tobacco plants  
and tissue cultures. Hoppe-Seyler. Z. Physiol.Chem., 353:  
134-135.

- Fumiya, K and A.Nishi. 1984. Elicitation of phytoalexin production in cultured carrot cells. Physiol. Plant Path., 24 : 169-176.
- Gangulee, H.C. and A.K.Kar. 1985. College Botany. 6th Edition. New Central Book Agency. Calcutta.
- Gauman, E., Braun, R. and G.Bazigher. 1950. Uber induzierte Abwehrreaktionen bei Orchideen. Phytopathol.Z. 17: 36-62.
- Geigert, J., Stermitz, F.R., Johnson, G., Megg, D.D. and D.K.Johnson 1973. Two phytoalexins from sugar beets (Beta vulgaris) leaves. Tetrahedron, 29: 2703-2706.
- Geissmann, T.A. (ed.), 1962. Chemistry of the flavonoid compounds". Pergamon press, Oxford.
- Gell, R.J., Pinbey, J.T. and E.Ritchie. 1958. 7-OMe 1,4-dihydroflavonol from Eucalyptus. Aust. J.Chem., 11:372.
- Ghosal, S., Biswas, K., Chakrabarti, D.K. and K.C.Basuchaudhari. 1977. Control of Fusarium wilt of safflower by mangiferin. Phytopathology, 67 : 548-550.
- Ghosal, S., Biswas, K. and B.K.Chattopadhyay. 1978. Differences in the chemical constituents of Mangifera indica, infected with Aspergillus niger and Fusarium moniliformae. Phytochemistry, 17: 689-694.
- Ghosh, K. 1979. Post infection changes in phenolic contents in orange (Citrus reticulata Linn.), Musambi (Citrus sinensis Linn.) and lemon (Citrus medica Linn.) induced by Colletotrichum gleosporoides. In: Physiology of parasitism (G.P. Agarwal and K.S.Bilgrami, Eds.) Today and Tomorrow, New Delhi, pp. 337-344.

- Haerdtl, H. 1962. Fungicidal properties of oils and solid filters. Deuts. Apothek. Ztd., 102: 447-448.
- Hahn, M.G., Darvill, A.G. and P. Albersheim. 1981. Host pathogen interactions XIX. The endogenous elicitor, a fragment of a plant cell wall polysaccharide that elicits phytoalexin accumulation in soybeans. Plant Physiol., 68: 1161-1169.
- Hammerschmidt, R. and J. Kuć. 1979. Isolation and identification of phytuberin from Nicotiana tabacum previously infiltrated with an incompatible bacterium. Phytochemistry, 18 : 874-875.
- Hammerschmidt, R. and J. Kuć. 1980. Enhanced peroxidase activity and lignification in the induced systemic protection of cucumber. Phytopathology, 70: 689.
- Hammerschmidt, R. and R.L. Nicholson. 1977 Resistance of maize to anthracnose : changes in host phenols and pigments. Phytopathology, 62 : 251-258.
- Hampton, R.E. 1962. Changes in phenolic compounds in carrot root tissue infected with Thielaviopsis basicola. Phytopathology, 52 : 413-415.
- Harborne, J.B. 1967. Comparative Biochemistry of flavonoids, Academic Press, London.
- Harborne, J.B. 1982. Introduction to Ecological Biochemistry 2nd edn., A.P. London, p.110.
- Harborne, J.B. 1984. Phytochemical methods. 2nd edn. Chapman and Hall, London.

- Harding, V.K. and J.B. Heale. 1980. Isolation and identification of the antifungal compounds accumulating in the induced resistance response of carrot slices to Botrytis cinerea. Physiol. Plant Pathol., 17: 277-289.
- Harding, V.K. and J.B. Heale. 1981. The accumulation of inhibitory compounds in the induced resistance response of carrot root slices to Botrytis cinerea. Physiol. Plant Pathol., 18 : 7-15.
- Hargreaves, J.A. 1980. A possible mechanism for the phytotoxicity of the phytoalexin phaseollin. Physiol. Plant Pathol., 16 : 351-347.
- Hargreaves, J.A. and J.A.Bailey. 1978, Phytoalexin production by hypocotyls of Phaseolus vulgaris in response to constitutive metabolites released by damaged cells. Physiol. Plant Pathol., 13: 89-100.
- Hargreaves, J.A., Mansfield, J.W., Coxon, D.T. and K.E.Price. 1976. Weyerone epoxide as a phytoalexin in Vicia faba and its metabolism by Botrytis cinerea and B.fabae in vitro. Phytochemistry, 15: 1119-1121.
- Harris, J.E. and C. Dennis. 1976. Antifungal activity of post-infectional metabolites from potato tubers. Physiol. Plant Pathol., 9: 155-165.
- Harris, J.E. and C. Dennis. 1977. The effect of post-infectional potato tuber metabolites and surfactants on zoospores of comycetes. Physiol. Plant Pathol., 11: 163-169.

- Hart, J.H. and W.E.Hillis, 1974. Inhibition of wood-rooting fungi by stilbenes and other polyphenols in Eucalyptus sideroxylon. Phytopathology, 64: 939-948.
- Hattori, S. and M. Shiroya. 1955. Studies on the browning and Blackening of plant tissues (II). Physiol.Plantarum, 8: 63-70.
- Heath, M.C. 1980. Reactions of nonsuscepts to fungal pathogens. Ann. Rev. Phytopathol., 18: 211-236.
- Heath ,M.C. and R.K.S.Wood. 1971. Role of inhibitors of fungal growth in the limitation of leaf spots caused by Asochyta pisi and Mycosphaerella pinodes. Ann. Bot., 35: 475-491.
- Hegnauer, R. 1966. Acubinartiga Glucoside. Uber die Verbreitung and Bedenlung als systematisches Merkmal. Pharm.Acta. Helv., 41: 557-567.
- Hegnauer, R. 1969. Chemical evidence for the classification of some plant taxa, In: Perspectives in Phytochemistry (Swain,T and J.B. Harborne, eds.) A.P. 1, 121-138.
- Hegnauer, R. 1971. Pflanzanstoffe Und Pflanzensystematik. Naturwiss., 58 : 585-598.
- Henderson, S.J. and J. Friend. 1979. Increase in PAL and lignin-like compounds as race specific responses of potato tubers to Phyphthora infestans. Phytopathol.Z., 94: 323-334.
- Henfling, J.W.D.M., Bostock, R.M. and J. Kuc. 1980. Cell walls of Phytophthora infestans contain an elicitor of terpene accumulation in potato tubers. Phytopathology, 70:772-776.
- Higgins, V.J. 1978. The effect of some pterocarpanoid phytoalexins on germ tube elongation of Stemphylium



- botryosum. Phytopathology, 68: 338-345.
- Higgins, V.J. and R.L. Miller. 1968. Phytoalexin production by alfalfa in response to infection by Colletotrichum phomoides, Helminthosporium turcicum. Phytopathology, 58 : 1377-1383.
- Hiller, K. 1964. Antimicrobial substances in flowering plants- A review. Pharmazie, 19: 167-188.
- Hiura, M. 1943. Studies in storage and root of sweet potato, Eifu Noriu Semmon Gokko Gakrujutsu Mokaku, 50: 1-5.
- Holowezak, J., Kuć, J. and E.B.Williams. 1962. Metabolism of DL and L-phenylalanine in Malus related to susceptibility and resistance to Venturia inaequalis. Phytopathology, 52 : 699-703.
- Horsfall, J.G. and E.B. Cowling 1980. Plant.Disease : An advanced treatise. Vol.V. How plants defend themselves. Academic Press, New York. pp. 534.
- Howell, C.R., Bell, A.A. and R.D.Stipanovic. 1976. Effect of aging on flavonoid content and resistance of cotton leaves to Verticillium wilt. Physiol.Plant Pathol., 8 : 181-188.
- Hungund, B.L. and C.H. Pathak 1971. U.S.D.A. Forest Service Research paper NE- 201.
- Hutson, R.A. and Smith, I.M. 1980. Phytoalexins and tyloses in tomato cultivars infected with Fusarium oxysporum f.sp. lycopersici or Verticillium albo-atrum. Physiol.Plant Pathol., 17: 245-257.

- Ibrahim, R.K. and G.H.N. Towers 1960. Arch. Biochem. and Biophys., 87: 125.
- Ingham, J.L. 1976. Induced isoflavonoids from fungus infected stems of pigeon pea (Cajanus cajan). Z. Naturforsch., 31C: 504-508.
- Ingham, J.L. 1977. Phytoalexins of hyacinth bean (Lablab niger) Z. Naturforsch., 32C: 1018-1020.
- Ingham, J.L. 1978. Phaseollidin, a phytoalexin of Psophocarpus tetragonolobus. Phytochemistry, 17: 165.
- Ingham, J.L. 1979. Isoflavonoid phytoalexins from leaflets of Dalbergia sericea. Z. Naturforsch., 34C : 296-298.
- Ingham, J. 1982. In: Phytoalexins (Bailey, J. and Mansfield, J. eds.), pp-21-80, Blackie and Sons, Glasgow/London.
- Ingham, J.L. and P.M. Dewick. 1980a. Astracicerin : A new isoflavan phytoalexin from Astragalus cicer. Phytochemistry, 19: 1767-1770.
- Ingham, J.L. and P.M. Dewick. 1980b. Sparticarpin : a pterocarpan phytoalexin from Spartium junceum. Z. Naturforsch., 35C : 197-200.
- Innes, H.L. 1974. Resistance to bacterial blight of cotton varieties homozygous for combination of B resistance genes. Ann. Appl. Biol., 78: 89-98.
- Iohisaka, N., Tomiyama, K., Katsui, N., Murai, A. and T. Masamune 1969. Biological activities of rishitin, an antifungal compound isolated from diseased potato tubers, and its derivatives. Pl. Cell Physiol., 10: 185-192.

- Jamaluddin and M.P.Tandon. 1977. Observation on diseases of fruits and vegetables. Proc.Nat.Acad.Sci.(India), 47(B) 197-198.
- Janaradhanan, K.K., Ganguly, D., Baruah, J.B. and P.P.Rao. 1963. Fungitoxicity of extracts from tannin bearing plants. Curr.Sci., 32: 226-227.
- Jensen, S.R. Nielsen, B.J. and R.D.Dahlgren. 1975. Iridoid compounds, their occurrence and systematic importance in Angiosperms. Bot. Notiser., 128: 148-180.
- Johnson, C., Brannon, D.R. and J.Kuc. 1973. Xanthotoxin: a phytoalexin of Pastinaca sativa root. Phytochemistry, 12: 2961-2962.
- Johnson, G., Maagy D.D., Johnson, D.K. and R.D.Thomas. 1976. The possible role of phytoalexins in the resistance of sugar beet (Beta vulgaris) to Cercospora beticola. Physiob. Plant. Pathol., 8: 225-227.
- Jones, D.R., Unwin, C.H. and E.W.B.Ward. 1975. The significance of capsidol induction in pepper fruit during an incompatible interaction with Phytophthora infestans. Phytopathology, 65 : 1286-1288.
- Jones, I.T. and J.P.Hayes 1971. The effect of sowing date on adult plant resistance to Erysiphe graminis f.sp.avena M oats. Ann.Appl.Biol. 68: 31-39.
- Joshi, K.C., Singh P and R.T. Pardasani 1977. Chemical components of the roots of Tectona grandis and Gmelina arborea. Planta-Medica, 32(1): 71-75.
- Joy, A and M. Daniel 1988. Phytoalexins of Cassia fistula Linn and Morinda tomentosa. Heyne Nat. Acad.Sci.Letts., Vol. I No.4, 101-102.

- Jung, J. and M.Hubbes. 1965. Growth inhibition of Bacillus cereus in vitro by glycosidal substances extracted from bark of Fraxinus. Can. J. Bot., 43: 469-474.
- Kaji and Khorana. 1964. Studies in Cassia fistula Linn. leaves Curr. Sci., 462.
- Kalpan, D.T., Keen, N.T. and Thomson, I.J., 1980. Studies on the mode of action of glyco<sup>e</sup>llin in soybean. Incompatibility to the root nematode, Meloidogyne incognita. Physiol. Plant. Pathol., 16: 319-325.
- Karadge, B.A., Chavan, P.D. and A.N.Thite, 1980. Changes in phenolic compounds of teak<sup>3</sup> leaves induced by powdering mildew infection. Indian Phytopathology, 33: 114-116.
- Karimdzhanov, A.K., Ismailov, A.I., Abdullaev, Z.S., Islambekov, Sh. Yu. Kamaev, F.G. and A.S.Sadykov. 1976. Structure of gossyvertin- a new phytoalexin of the cotton plant. Khim. Prir. Soedin., 238-242.
- Kato, N., Imaseki, H., Nakashima, N. and I.Uritani. 1971. Structure of a new sesquiterpenoid, ipomeamaranol in diseased sweet potato root tissue. Tetrahedron Lett., 843-846.
- Keen, N.T. 1975. Specific elicitors of phytoalexin production: Determinants of race specificity in pathogens? Science, 187: 74-75.
- Keen, N.T. 1978. Phytoalexins: efficient extraction from leaves by a facilitated diffusion technique. Phytopathology, 68, 1237-1239.

- Keen, N.T. 1978. Surface glycoproteins of Phytophthora megasperma var. sojae function as race specific glycollin elicitors in soybeans. Phytopathol. News, 12 : 221.
- Keen, N.T. 1981. In: Evaluation of the role of phytoalexins in plant disease control (R.C. Staples, ed) pp 155-157. John Wiley, and Sons, New York.
- Keen, N.T. and B. Bruegger. 1977. Phytoalexins and chemicals that elicit their production in plants. In: Host plant resistance to pests (P.A.Hedin, ed), American Chemical Society, Washington, D.C. pp 1-26.
- Keen, N.T. and J.L.Ingham. 1980. Phytoalexins from Dolichos biflorus. Z. Naturforsch., 35C : 923-926.
- Keen, N.T. and B.W. Kennedy. 1974. Hydroxyphaseollin and related isoflavonoids in the hypersensitive resistance reaction of soybean to Pseudomonas glycinea. Physiol. Plant. Pathol., 4, 173-185.
- Keen, N.T. and L.J.Littlefield. 1979. The possible association of phytoalexins with resistant gene expression in flax to Mealmsora mini. Physiol. Plant.Pathol., 14: 265-280.
- Keen, N.T., Wang, M.C., Bartnicki-Carcia, S. and G.A.Zenmeyer 1975. Phytotoxicity of mycolaminarans -  $\beta$ -1,3-glucans from Phytophthora spp. Physiol. Plant. Pathol., 1:91-97.
- Khan, F.Z. and J.M.Milton 1978. Phytoalexin production and the resistance of lucerne (Medicago sativa L.) to Verticillium albo-atrum. Physiol.Plant.Pathol., 13:215-21.
- King, F.E. 1953. The chemistry of wood extractives. Chem.Indust., p. 1325-1328.

- King, F.E., Housley, J.R. and T.J. King. 1954. The chemistry of extractions from hardwoods. Part XVI. Coumarin constituents of Fagaria macrophylla, Zanthoxylum falbum and Choroxyton swietenia. J. Chem. Soc., p.1392-1399.
- \*Koch, R. 1882. In : Riker, A.J. and Riker, R.S., Swift Con. Inc. New York. 1936. 57.
- Koegh, R.C., Deverall, B.J. and S. Mcleod, 1980. Comparison of histological and physiological responses to Phakopsora pachyrhizi in resistant and susceptible soybean. Trans. Br. mycol. Soc., 74: 329-333.
- Kolattukudy, P. 1975. Biochemistry of cutin, suberin and waxes, the lipid barriers on plants" In: Recent advances in the chemistry and Biochemistry of plant lipids (eds. T. Galliard and E. Mercer). Academic Press, 203-246.
- Kosuge, T. 1969. The role of phenolics in host response to infection. Ann. Rev. Phytopathol, 7: 195-222.
- KotiReddy, M. and N.N. Prasad, 1979. Changes in phenolics in the shoots of resistant and susceptible rice varieties infected by Pyricularia oryzae. In: Physiology of host-pathogen interaction, (A.M. Mahadevan ed.) Today and Tomorrow, New Delhi p-417-426.
- Klarman, W.L. and J.W. Gerdemann. 1963. Induced susceptibility in soybean plants genetically resistant to Phytophthora sojae. Phytopathology, 53: 863-864.
- \*Kuc, J. 1955. A biochemical study of the nature of disease resistance in plants. (Doctoral thesis, Purdue University, Lafayette, Indiana.
- Kuc, J. 1964. Phenolic compounds and disease resistance in plants. In: Perspectives of biochemical plant pathology

- (S.Rieh.ed.), Conn.Agr.Exp.Sta. Bull., 663: 20-30.
- Kuč, J. 1972. Phytoalexins. Ann. Rev. Phytopathology, 10: 207-232.
- Kuč, J. 1976. In : Specificity in plant-parasite interactions (Wood, R. and Granti, A., eds) pp. 253-271, Plenum, New York.
- Kuč, J. 1976. Phytoalexins. In: Encyclopedia of plant Physiology, New series, Physiological plant pathology (R.H. Heitertuss and P.H. Williams, eds) Vol. 4, pp. 632-652. Springer-Verlag, Berlin, Heidelberg and New York.
- Kuč, J. 1982a. Plant immunization. Bioscience, 32: 854-860.
- Kuč, J. 1982b In: Phytoalexins (Bailey, J. and Mansfield, J. eds). pp. 81-105, Blackie and Sons, Glasgow/London.
- Kuč, J. and S.Tuzun 1983. Immunization for disease resistance in tobacco. Rec. adv. Tobacco Sci., 9: 179-213.
- Kuč, J. and C. Presig 1984. Fungal regulation of disease resistance mechanism in plants. Mycologia, 76(5): 767-784.
- Kuč, J. 1987. Plant immunization and its applicability for disease control. In: Non-conventional approaches to disease control (I. Chet, ed.) J. Wiley and Sons.
- Kuč, J. and F.L.Caruso. 1972. "Activated co-ordinated chemical defence against disease in plants" In: Host-plant resistance to pests (P.A.Hedin, ed.) American Chemical Society, Washington, D.C. 78-79.
- Kuč, J. Henze, R.E. Ullstrup, A.J. and F.W. Quackenbush 1956. Chlorogenic and Caffeic acids as fungistatic agents produced by potatoes in response to inoculation with

- Helminthosporium carbonum. J. Amer.Chem.Soc., 78: 3123-3125.
- Kuč, J. and J. Rush, 1985. Phytoalexins. Arch. Biochem. Biophy., 236: 455-472.
- Kuhn, P.J. and D.A.Smith 1979. Isolation from Fusarium solani f.sp. phaseoli of an enzymic system responsible for kievitone and phaseollidin detoxification. Physiol. plant. pathol., 14: 179-190.
- Kubitzki, R 1969. Chemosystematische Betrachtungen zur Grossgliederung der Dicotylen. Taxon. 18: 360-368.
- Kubota, T and T. Matsuura. 1953. Chemical studies on the black rot disease of sweet potato V. Chemical constitution of ipomeamarone. J. Chem.Soc., Japan, 74: 248-251.
- Lampitt, L., Bushill, H., Rooke and E.Jackson. 1943. Solanine, glycoside of the potato II. Distribution in the potato plant. J. Soc. Chem.Ind., 62: 48-51.
- \*Last, F.T. and R.C.Warren. 1972. Non-parasitic microbes colonizing green leaves, their form and functions. Endeanvor, 31: 143-150.
- Laxminarayana, P. and S.M.Reddy, 1977. Some observations on the post harvest disease of mango. Proc. Nat.Acad. Sci. India, Annual number -9.
- Lazarovits, G. and V.J.Higgins. 1979. Biological activity and specificity of a toxin produced by Cladosporium fulvum Phytopathology, 69: 1056 -1061.
- Lees, S.C. and C.A.West. 1981a. Polygalacturonase from Rhizopus stolonifer, an elicitor of casebene synthetase activity in castor bean (Ricinus communis) seedlings. Plant



Physiol., 67: 633-639.

- Lee, S.C. and C.A. West. 1981b. Properties of Rhizopus stolonifer polygalacturonase, an elicitor of chitinase synthetase activity in Castor bean (Ricinus communis L.) seedlings. Plant. Physiol., 67: 640-645.
- Lele, V.C., Durgapal, J.C., Agarwal, D.K. and C.L. Sethi. 1978. Crown and root gall of grape (Vitis vinifera L.) in Andhra Pradesh. Curr. Sci. 47: 280.
- Li, C.Y., Lu, K.C., Trappe, J.M. and W.B. Bolle. 1972. Poria weirri-inhibiting and other phenolic compounds in roots of red alder and Douglas fir. Microbios, 5: 65-68.
- Lilly, V.G. and H.L. Barnett. 1951. Physiology of the Fungi, McGraw-Hill Book Co. Inc. New York, 464.
- Lisker, N. and J. Kuc. 1977. Elicitors of terpenoid accumulation in potato tuber slices. Phytopathology, 67: 1356-1359.
- Lyon, F.M. and R.K.S. Wood. 1975. Production of phaseollin, coumestrol and related compounds in bean leaves inoculated with Pseudomonas spp. Physiol. Plant. Physiol., 6: 117-1124.
- Lyr, H. 1977. "Mechanism of action of fungicides", in: Plant Disease, Vol. I (eds. J.G. Horsfall and E.B. Cowling), Academic Press, New York. 239-261.
- Ludwig, R.A., Spencer, E.Y. and C.H. Unwin, 1960. An antifungal factor from barley of possible significance in disease resistance. Can. J. Bot., 38: 21-29.

- Mabry, T.J., Markham, K.R. and M.B.Thomas. 1970. The systematic identification of flavonoids. Springer-Verlag, Berlin.
- Mace, M.E. ( ) Phenols and their involvement in Fusarium wilt pathogenesis. In: Phenolics in normal and diseased fruits and vegetables (Runeckles, V.C., ed.) Imperial Tobacco Co., Montreal, pp.102.
- Macfoy, C.A. and I.M.Smith. 1979. Phytoalexin production and degradation in relation to resistance of clover leaves to Sclerotinia and Botrytis spp. Physiol.Plant.Pathol., 14: 99-112.
- Mansfield, J.W. and B.J. Deverall. 1974. Changes in Wyerone acid concentrations in leaves in Vicia faba after infection by Botrytis cinerea or B. fabae. Ann. Appl. Biol., 77: 227-235.
- Markham, K.R. and J.L.Ingham. 1980. Tectorigenin, a phytoalexin of Centrosema baitiense and other Centrosperma species. Z. Naturforsch., 36C: 919-922.
- Malmberg, A.G. and O.Theander 1980. Phytoalexin glycosides from potato tubers infected with Phoma. Phytochemistry, Vol. 19: 1739-1742.
- Mare, D.J. 1979. Microscopic study of the development of yellow rust (Puccinia striiformis) in a wheat cultivar showing adult plant resistance. Physiol.Plant.Pathol. 15: 289-96.
- Markham, K.R. 1982. Techniques of flavonoid identification. Academic Press, London.

- Martin, J.T., Baker, E.A. and R.J. Byrde. 1966. The fungitoxicities of plant furocoumarins. Ann.Appl.Biol. 57: 501-508.
- Mason, H.S. and E.W. Patterson. 1965. Melanoproteins-I. Reactions between enzyme generated quinones and amino acids. Biochem. Biophys. Acta, III : 134-146.
- Mathews, D.E. and H.D. Van Etten. 1981. Demethylation of pisatin by a cell-free preparation from Nectria haematococca. Abstracts of the annual meeting of the American Society for Microbiology, p.163.
- Matta, A. 1971. Microbial penetration and immunization of uncogenial host plants. Ann.Rev. Phytopathol., 9:387-410.
- McCance, D.J. and R.B. Drysdale. 1975. Production of tomatine and rishitin by tomato plants. Physiol.Plant.Pathol., 7: 221-230.
- McKee, R.K. 1959. Factors affecting the toxicity of solanine and related alkaloids to Fusarium caeruleum. J. Gen. Microbiol., 20: 686-696.
- \*Metlitskii, L.V., Vasyukova, N.I., Davydova, M.A., Dorozhkin, Z.I., Remneva, and V.G. Ivanynk. 1970. Potato resistance to Phytophthora infestans as related to leaf phytoalexin activity Prikl.Biokhim.Mikrobiol., 6: 568-573.
- Meuse, A.D.J. 1970. The descent of the flowering plants in the light of new evidence from phytochemistry and from other sources. I and II. Acta. Bot. Neerl., 19: 61-72.

- Mineo, K. 1976. Possible involvement of furanoterpenoid phytoalexins in establishing host-parasite specificity between sweet potato and various strains of Ceratocystis fimbriata. Physiol. Plant. Pathol., 8: 97-111.
- Misaghi, I.J. 1982. Physiology and Biochemistry of Plant Pathogen interactions. Plenum Press, New York.
- Misato, T. and K.Kakiki, 1977. "Inhibition of fungal cell wall synthesis and cell membrane function" In: Antifungal compounds Vol.2 (eds. M.R.Siegel and H.D. Sisler), Marcel Dekker, New York.
- Mizukani, T. 1953. Observations on the reactions of plants to the infection of some pathogens. I. On the difference of the influence on the barley juice on the germination of Fusarium nivale and Fusarium solani. Ann. Phytopathol. Soc., 7 : 52-60.
- Modi, F.K. and M.L.Khorana. 1952. A study of Cassia fistula pulp. Ind. J. Pharm., 4: 61.
- Moesta, P. and H. Grisebach. 1980. Effects of biotic and abiotic elicitors on phytoalexin metabolism in soybean. Nature, 286: 710-711.
- Moesta, P. and Grisebach. 1982. L-2-Aminoxy-3-phenylpropionic acid inhibits phytoalexin accumulation in soybean with concomitant loss of resistance against Phytophthora megasperma f.sp. glycinea. Physiol.Plant.Pathol., 21: 65-70.
- Müller, K.O. 1956. Einige einfache ver suche zum nachweis von phytoalexinen. Phytopathol.Z., 27: 237-254.

- Müller, K.O. 1958. Studies on phytoalexins. I. The formation and immunological significance of phytoalexins produced by Phaseolus vulgaris in response to infections with Sclerotinia fructicola and Phytophthora infestans. Aust.J.Biol. Sci., 11: 275-300.
- Müller, K.O. 1961. The phytoalexin concept and its methodological significance. In : Recent advances in Botany I. 396-400, University of Toronto Press, Toronto.
- \*Müller, K.O. and H. Borger 1939. Studien über den "Mechanismus" der Phytophthora-Resistenz der kartoffel. Landwirtsch Jahrb. Berlin, 87: 609.
- \*Müller, K.O. and H. Borger. 1940. Experimentelle Untersuchungen über die Phytophthora Resistenz der kartoffel. Arb.Biol. Anst. Reichsanst. (Berl), 23: 189-232.
- \*Müller, K.O., Klinkowshi, M., and G. Meyer. 1939. Physiologisch-genetische Untersuchungen über die Resistenz der kartoffel gegenüber Phytophthora infestans. Naturwissenschaften, 27: 765-768.
- Murch, R.S. and J.D. Paxton 1977. Glyceollin concentrations in Phytophthora resistant soybean. Light influences. Proc. Amer. Phytopathol. Soc., 4: 135-136.
- Murti, V.V.S., Neelakantan, S., Seshadiri, T.R. and B. Venkatramani. 1959. Special chemical components of commercial woods and related plant materials, Part VIII-Heartwood of Morinda tinctoria Roxb. J.Sci.Ind.Res., 15 B: 367.

- Nair, A.G.R. and S. Subramanian. 1962. Chemical examination of the flowers of Syzygium cumini J. Sci. Ind. Res., 21B: 457-458.
- Narayana, R., and A.R.S. Kartha, 1962. The Glycoside structure of Mangifera indica seed fat. J. Sci. Ind. Res., 21B-400.
- Neema, D.K., 1979. Influence of Alternaria alternata Fr. Keissler infection on the phenolic compounds content of two cultivars of apple (Malus sylvestris Mill) fruits. In: Physiology of parasitism, (G.P. Agarwal and K.S. Bilgrami, eds.) Today and Tomorrow, New Delhi, p-345-353.
- Nene, Y.L. and P.N. Thaplayal. 1965. Antifungal properties of Anagallis arvensis L. extract. Naturwissenschaften, 52: 89-90.
- Nonaka, F and K. Yasui. 1966. On selective toxicity of ipomeamarone towards the phytopathogens. Agricultural bulletin of Sagar University No. 22: 39-49.
- Oku, H. 1959. Biochemical studies on Cochliobolus miyabeanus Ann. Rept. Takamine Lab., 11: 190-192.
- \*Oku, H., Shivaishi, T., Ouchi, S., Utsami, K. and S. Jeno. 1976a. Toxicity of a phytoalexin, pisatin, to mammalian cells. Proc. Jpn. Acad. Ser. B. Phys. Biol. Sci., 52: 33-36.
- Oku, H., Shiraishi, T. and S. Ouchi. 1976b. Effect of preliminary administration of pisatin to pea leaf tissues on the subsequent infection by Erysiphe pisi D.C. Ann. Phytopathol. Soc. Jpn., 42: 597-600.
- Osborne, L.D and L.B. Thrower. 1964. Thiamine requirement of some wood rotting fungi and its relation to natural

- durability of timber. Trans.Brit.Mycol.Soc., 47: 601-611.
- Paech, W. and M.V. Tracey, 1955. Modern methods of plant analysis, Vol.II, Springer-Verlag.
- Patel, R.P. and K.C.Patel, 1956. Antibacterial activity of Cassia fistula. Ind. J. Pharm., 34 - 107.
- Patridge, J.E. and N.T. Keen. 1976. Association of the phytoalexin kievitone with single-gene resistance of cowpeas to phytophthora vignae. Phytopathology, 66:426-429.
- Paxton, J.D. and D.W. Chamberlain. 1967. Acquired local resistance of soybean plants to Phytophthora spp. Phytophthology, 57: 352-353.
- Perrin,D.R. 1964. The structure of phaseolin. Tetrahedron Lett., 1 : 29-35.
- Perrin, D.R. and W. Bottomley. 1962. Studies on phytoalexins. V. The structure of pisatin from Pisum sativum.J.Amer. Chem.Soc., 84: 1919-1922.
- Person, C.D., Samborski, D.J. and R.Rohringer. 1962. The gene-for-gene concept. Nature, 194: 561-562.
- Pfleger,F.D. and G.E Herman. 1975a. Fungal antisporulant activity of a complex lipid fraction extracted from pea seeds. Can.J.Bot., 53: 1625-1629.
- Pflegger, F.D. and G.E.Herman. 1975b. Inability of storage fungi to invade pea embryos; evidence against phytoalexins involvement. Phytopathology, 65: 642-643.
- Pierre,R.E. and D.F.Bateman. 1967. Induction and distribution of phytoalexins in Rhizoctonia-infected bean hypocotyl Phytopathology, 57, 1154-1160.

- Price, K.R., Howard, B. and D.T.Cozon. 1976. Stress metabolite production in potato tubers infected by Phytophthora infestans, Fusarium avenaceum and Phoma exigua. Physiol. Plant. Pathol., 9: 189-197.
- Pridham, J.B. 1960. The formation and possible function of phenolic glucosides. In: Phenolics in plants in Health and Disease, Pergamon, New York.
- Pridham, J.B. 1965. Low molecular weight compounds in higher plants. Ann.Rev. Plant.Physiol., 16: 13-36.
- Pueppke, S.G. and H.D.Van Etten. 1974. Pisatin accumulation and lesion development in peas infected with Aphanomyces euteiches, Fusarium solani f.sp.pisi or Rhizoctonia solani. Phytopathology, 64: 1433-1440.
- \*Robeson, D.J. 1978. A comparative study of phytoalexin induction in the Tribe Viciaeae, Ph.D. Thesis, University of Reading, England.
- Robeson, D.J. and Harborne, J.B. 1980. A chemical dichotomy in phytoalexin induction within the tribe Viciaeae of Leguminosae. Phytochemistry, 19: 2359-2365.
- Rohringer, R. and D.J. Samborski. 1967. Aromatic compounds in the host-parasite interaction. Ann.Rev.Phytopathol., 5 : 77-86.
- Rossal, S. and J.W. Mansfield. 1978. The activity of Wyerone acid against Botrytis. Ann.Appl.Biol. 89: 359-362.
- Rosall, S., Mansfield, J.W. R.A.Hutson. 1980. Death of Botrytis cinerea and B.fabae following exposure to wyerone derivatives in vitro and during infection development



- in broad bean leaves. Physiol.Plant.Pathol., 16: 135-146.
- Rudman, P. 1961. The causes of natural durability in timber  
Pt.VIII. The causes of decay resistance in teak (Tectona grandis L.F.) Holsforschung, 15: 151-156.
- Rudman, C.F. 1963a. The causes of natural durability in timber. Part. XI. Some tests on the fungitoxicity of wood extractives and related compounds. Holzforschung., 17: 54-57.
- Rudman, C.F. 1963b. The causes of natural durability in timber. Holzforschung, 17: 86-89.
- Rudman, P. and E.W.B.DaCosta. 1959. Variation in extractive content and decay resistance in the heartwood of Tectona grandis L. J.Inst.Wood.Sci., 3: 33-42.
- Sadykov, A.S., Metlitskii, L.V., Karimdzhanov, A.K., Ismailov, A.I., Mukhamedov, R.A., Avaskhodzhaev, M.K.H. and F.G.Kamaev. 1974. Isohemigossypol - the phytoalexin of the cotton plant. Dokl. Akad. Nauk. SSSR., 218: 1472-1475.
- Sandermann, W and H.H. Dietrichs. 1959. Chemische Untersuchungen as Teakholz. Holzforschung., 13: 137-148.
- Sato, N., Kitazawa, K. and K.Tomiyama. 1971. The role of rishitin in localizing the invading hyphae of Phytophthora infestans in infection sites at the cut surfaces of potato tubers. Physiol.Plant.Pathol., 1: 289-295.
- Sato, N., Tomiyama, K. and N.Katsui, 1968. Isolation of rishitin from tomato plants. Ann.Phytopathological Soc., Japan, 34, 344-345.

- Scandermann, W and M.H.Simatupang. 1965. New quinone from Tectona grandis. Naturwissenschaften, 52(10): 2623-2626.
- Schonbeck, R. and E.Schlosser. 1976. Preformed substances as potential protectants. In: Physiological plant pathology (R. Herttuss and P.H. Lilliams eds) Vol. 4, pp.653-678. Springer-Verlag, Heidelberg, Berlin and New York.
- Sequeira, L. 1969. Synthesis of scopolin and scopoletin in tobacco plants infected with Pseudomonas solanacearum. Phytopathology, 59: 473-478.
- Shiraishi, T. Oku, H., Isono, M. and S.Duchi. 1975. The injurious effect of pisatin on the plasma membrane of pea. Plant Cell Physiol., 16: 939-942.
- Shiraishi, T., Oku, H., Duchi, S. and Y.Tsuji. 1977. Local accumulation of pisatin in tissues of pea seedlings infected by powdery mildew fungi. Phytopathol.Z., 88:131-135.
- Shiroya, M., Shiroya, T and S.Hattori. 1955. Studies on the browning and blackening of plant tissues, IV. Physiol. Plantarum, 8: 594-605.
- Siebs, E. 1955. Untersuchungen uber die Schorfresistenz von Birnen, III. Phytopathol.Z., 23: 37-48.
- Singh, B.P. 1970. A new leaf spot disease of mango (Mangifera indica L.) caused by Curvularia lunata (Wakker) Boedijn var. aeria (Batista, Lema, Vasconelos) Ellis. Sydowia, 24: 191-192.
- Singh, L.B. and J.L.Bose. 1961. Chemical examination of mango (M. indica L.) panicles. J.Sci.Ind.Res., 20B: 296.
- Singh, R. 1971. Inactivation of potato virus by plant extracts. Phytopath.Medit., 10: 211-213.

- Sitton, D and E.A. West. 1975. Casbene, an antifungal diterpene, produced in cell-free extracts of Ricinus communis seedlings. Phytochemistry, 14: 1921-1925.
- Sivaprakasam, K., Krishna Mohan G., Ramakrishnan, G., and C.L. Subramanian. 1977. A new dry rot of Tapioca tuber incited by Fusarium solani. Madras Agric. J., 64: 208-209.
- Skinner, F.A. 1955. Antibiotics. In: Modern methods of plant analysis, III (K. Paech and M.V. Tracy, eds) 626-725 Springer, Berlin.
- Skipp, R.A. and J.A. Bailey. 1976. The effect of phaseollin on the growth of Colletotrichum lindemuthianum in bioassays designed to measure fungitoxicity. Physiol. Plant. Pathol., 9: 253-263.
- Skipp, R.A. and J.A. Bailey, 1977. The fungitoxicity of iso-flavonoid phytoalexins measured using different types of bioassay. Physiol. Plant. Pathol., 11: 101-112.
- Skipp, R.A., Selby, C. and J.A. Bailey 1978. Toxic effects of phaseollin on plant cells. Physiol. Plant. Pathol., 10 : 221-227.
- Smith, D.A. 1976. Some effects of the phytoalexin, Kievitone, on the vegetative growth of Aphanomyces eutiches, Rhizoctonia solani and Fusarium solani f.sp. phaseoli. Physiol. Plant. Pathol., 9: 45-55.
- Smith, D.A. 1978. Observations on the fungitoxicity of the phytoalexin, kievitone. Phytopathology, 68: 81-87.
- Smith, D.A., Van Etten, H.D. and D.F. Bateman. 1975. Accumulation of phytoalexins in Phaseolus vulgaris hypocotyls

- following infection by Rhizoctonia solani. Physiol.Plant. Pathol., 5: 51-64.
- Sokolova, V.E., Saveleva, O.N. and G.A. Soloveva. 1960. On the toxicity of chlorogenic acid in relation to the fungus Phytophthora infestans. Compt. Rend. Acad.Sci. URSS, 131: 968-971.
- Sporoston, Jr., T. 1957. Studies in the disease resistance to Impatiens balsamina. Phytopathology, 47: 534-535.
- Bridhar, R., Mohanty, S.K. and A. Anjaneyulu. 1979. In vivo inactivation of rice tungro virus by ferulic acid. Phytopath. Z., 94: 279-281.
- Stekoll, M. and C.A. West. 1978. Purification and properties of an elicitor of castor bean phytoalexin from culture filtrates of the fungus Rhizopus stolonifer. Plant. Physiol., 61: 38-45.
- Stoessl, A. and C.H. Unwin. 1969. The antifungal factors in barley. V. Antifungal activity of the hordatines. Can. J. Bot., 48: 465-470.
- Stoessl, A., Unwin, C.H. and E.W.B. Ward. 1972. Post-infectional inhibitors from plants-I. Capsidol an antifungal compound from Capsicum frutescens. Phytopath. Z., 74: 141-152.
- Stoessl, A., Ward, E.W.B. and J.B. Stothers. 1977. Biosynthetic relationship of sesquiterpenoidal stress compounds from solanaceae. In: Host Plant resistance to pests (P.A. Hedin, ed) pp.61-77. ACS. Symp. Ser. No. 62. American Chemical Society, Washington, D.C.

- Stromberg, E.L. and M.E.Gorden.1977. Fungitoxicity of xylem extracts from tomato plants resistant or susceptible to Fusarium wilt. Phytopathology, 67: 693-97.
- Subramanian, S. and A.G.R. Nair. 1972. Flavonoids of the flowers of Syzygium cumini. Curr.Sci.,41(19):703-704.
- Sutherland, O.D.W., Russell,G.B., Biggs,D.R. and G.A.Lane.1980. Insect feeding deterrent activity of phytoalexin isoflavonoids. Biochem.Syst.Ecol., 8: 73-75.
- Swaminathan, B. and P.E. Koehler. 1976. Isolation of an inhibitor of Aspergillus parasiticus from white potatoes (Solanum tuberosum). J.Food Sci., 41: 313-319.
- \*Tal, D. and D.J. Robeson.1986. Phytochemistry 25, 77.
- \*Tokin,E.P. 1967. Medicinal toxins of plants: Occurrence of phytoncides. Lenizdst, Leningrad.
- Tomiyama, K. 1963. Physiology and biochemistry of disease resistance of plants. Ann.Rev.Phytopath., Vol.1:295-324.
- Tomiyama, K., Akai,J. and T.Washio. 1952. Studies on the specific affinity between the host-plant juice and parasitic fungus, (I), Res.Bull.Hokkaido.Natl.Agr.Expt.Sta. 63, 84-95.
- Tomiyama, K., Sakuma, T., Ishizaka, N., Sato,N, Katsui,N., Takasugi, M. and T.Masamune. 1968. A new antifungal substance isolated from resistant potato tuber tissues infected by pathogens. Phytopathology, 58; 115-116.
- Trappe, J.M., Li, C.Y., Lu.Y.C. and W.B. Bollen, 1973. Differential response of Poria weirri to phenolic acids from Douglar fir and red alder roots. Forest.Sci.,19: 191-196.

- Trease and Wans .1952. A text book of pharmacognosy. 6th edition, Bailliere, Tindall and Co. London. p-420.
- Trim, A.R. and R.Hill. 1981. The preparation and properties of Acubin, Asperuloside and some related glycosides. Biochem.J., 50: 310.
- Uehara, K. 1958. On the production of phytoalexin by the host plant as a result of interaction between the rice plant and the blast fungus, Piricularia oryzae Cav. Ann. Phytopathol.Soc., Japan, 23: 127-130.
- Uegaki, E.R., Fujimori,T., Kubo, S. and K.Kato. 1981. Sesquiterpelnoid stress compounds from Nicotiana species. Phytochemistry, 20: 1567-1568.
- Vance,C.P., Sherwood,R.T. and T.K.Kirk. 1980. Lignification as a mechanism of disease resistance. Ann.Rev.Phytopathology, 18: 259-288.
- Valent, B.S. and A.P.Albersheim.1977. Role of elicitors of phytoalexin accumulation in plant disease resistance. In: Host plant resistance to pests (P.A.Hedin, ed)-, pp 27-34. American Chemical Society, Washington, D.C.
- Van Etten, H.D. 1973. Differential sensitivity of fungi to pisatin and to phaseollin. Phytopathology, 63: 1477-1482.
- Van Etten, H.D. and D.F. Bateman.1971. Studies on the mode of action of the phytoalexin phaseollin. Phytopathology, 61: 1363-1372.
- Van Etten, H.D., and S.G.Pueppke. 1976. Insoflavonoid Phytoalexins In: Biochemical aspects of plant-parasite relationships (J.Friend and D.R.Threlfall, eds) pp-239-289. Academic Press, New York.

- Vans, J.L. and J. Kuć. 1971. Suppression of rishitin and phytuberin accumulation and hypersensitive response in potato by compatible race of phytophthora infestans. Phytopathology, 61: 178-181.
- Venkatachalam, K. and Ratnagiriswiran. 1941. The use of Cassia fistula in the treatment of black water fever. Ind. Med. Gaz., 76: 211.
- Venkateshwarlu and P.Rao. 1964. Chemical components of the stem bark of Cassia fistula. Curr.Sci., 175.
- \*Vichkanova, S.A., Rubinchik, M.A., Adgina, V.V., Izosimova, S.B., Makarova, V., Shipulina, L.D. and L.V. Goryunova. 1973. Antimicrobial and antiviral activity of some natural coumarins. Rast. Resur., 9: 370-379.
- Vidyasekaran, P. 1978. Physiology of resistance to rust in sunflower. Ind. Phytopath., 31: 289-293.
- Wade, M., Cline, K., Hehn, M., Valent, B.S. and P. Albersheim. 1977. The stimulation of phytoalexin accumulation in higher plants by fungal glucons. Abstracts of the 69th American phytopathological society. Annual meeting. East Lansing, Michigan, p.89. American phytopathological Society.
- Wahlroos, O. and A.I. Virtanen. 1959. On the formation of 6-methoxy-benzoxazolinone in maize and wheat plants. Suomen kem., 32B: 139-140.
- Wain, R.L. 1969. Naturally occurring fungicides. Proc.Symp. Potential Crop Protection. p-26-36.

- Wakimoto, S., Ikari, H. and H. Yoshii. 1959. Relation between polyphenols contained in plants and phytopathogenic fungi II and III. Ann. Phytopathol. Soc. Japan, 24: 195-206.
- Walchli, O and E. Scheck, 1976. Natural resistance of Castanea sativa wood to fungal attack and its cause. Beih. Mat. Organismen, 3: 77-89.
- Ward, M.H. 1902. The question of predisposition and immunity in plants. Proc. Cambridge philos. Soc., 11: 307-328.
- Ward, E.W.B. and A. Stoessl. 1977. Phytoalexins from potatoes: evidence for the conversion of lubmin to 1,5-dihydrolubmin by fungi. Phytopathology, 67: 468-471.
- Ward, E.W.B., Unwin, C.H., Rock, G.L. and <sup>A.</sup>Stoessl. . 1976. Post-infectional inhibitors from plants XXIII, sesquiterpenoid phytoalexins from fruit capsules of Datura stramonium Can. J. Bot., 54: 25-29.
- Ward, E.W.B., Unwin, C.H. and A. Stoessl. 1974. Post-infectional inhibitors from plants XV. Fungitoxicity of the phytoalexin capsidol and related sesquiterpenes. Can. J. Bot., 52: 2481-2488.
- Ward, E.W.B., Unwin, C.H., Hill, J. and A. Stoessl. 1975. Sesquiterpenoid phytoalexins from fruits of egg plants. Phytopathology, 65: 859-863
- Webster, D.M. and L. Sequeira. 1977. Expression of resistance in bean pods to an incompatible isolate of Pseudomonas syringae. Can. J. Bot., 55: 2043-52.



- Weinhold, A.R. and J.G. Hancock. 1980. Defense at the perimeter.  
Extruded chemicals In: Plant Disease: An advanced treatise (J.G.Horsfall and E.B.Cowling, eds) Vol.5, pp, 121-138. Academic Press, New York.
- Wijnsma, R., Go, J.T.K.A., Weerden, I.N.V., Harkes, P.A.A., Verpoorte, R. and A.B.Svendsen. 1985. Anthraquinones as phytoalexins in cell and tissue cultures of Cinchona spec. Plant.Cell Reports, 4: 241-244.
- Woodward, M.D. 1980. Phaseollin formation and metabolism in Phaseolus vulgaris : Phytochemistry, 19: 921-927.
- Yoshikawa, M. 1978. Diverse mode of action of biotic and abiotic phytoalexin elicitors. Nature, 275: 546-547.
- Yoshikawa, M., Yamauchi, K. and H.M.Messago. 1978. Glyceollin : Its role in restricting fungal growth in resistant soybean hypocotyls infected with Phytophthora megasperma var. soja. Physiol. Plant.Pathol., 12: 73-82.

\* Original not referred