

References

REFERENCES

- A.O.A.C. (1990):** Association of official analytical chemists. Official method of analysis 15th ed. A.O.A.C., Washington, U.S.A. P: 857.
- A.O.A.C., Sec. 26, 018 and 019 (1975):** Association of Official Analytical chemists. Official methods of analysis. Chapter 26, Natural Poisons, Separate revised, March 1975. Association of official Analytical Chemists. Washington, D.C.
- Albassam, M.A.; Yong, S.I.; Bhatnagar, R.; Sharma, A.K. and Prior, M.G. (1987):** Histopathologic and electron microscopic studies on acute toxicity of ochratoxin A in rats. *Vet. Pathol.*, 24: 427-435.
- Allain, C.; Poon, L.S.; Chan, C.S.; Richmond, W. and Fu, P.C. (1974):** Enzymatic determination of total serum cholest Clin. Chem., 20: 470-475.
- Allcroft, R. and Lewis, G. (1963):** Groundnut meal toxicity in cattle: Experimental poisoning of calves and a report on clinical effects in older cattle. *Vet. Rec.* 75: 487-494.
- Alpert, M.E.; Hutt, M.S.R.; Wogan, G.N. and Davidson, C.S. (1971):** Association between aflatoxin content of food and hepatoma frequency in Uganda. *Cancer*, 28: 253-260.
- Anderson, H.W., Nehring, E.W. and Wichser, W.R. (1975):** Aflatoxin contamination of corn in the field. *J. Agric. Food Chem.* 23, 775.
- Anita-Nair; Verma, R.J. and Nair, A. (2000):** Effect of aflatoxins on testis of mouse and amelioration by vitamin E. *Indian-Journal of Toxicology*, 7: 2, 109-116; 18 ref.

- Anuja-Dudhe; Sharma, R.K. and Dudhe, A. (1996):** Biochemical studies on aflatoxin B₁-treated rats pre-fed with lactobacillus fermented milk. *Indian-Journal of Animal Health*, 35: 1, 39-42.
- Appleton, B.S., and Campbell, T.C. (1983):** Effect of high and low dietary protein on the dosing and postdosing periods of aflatoxin B₁-induced hepatic preneoplastic lesion development in the hepatic preneoplastic lesion development in the rat. *Cancer Res.* 43, 2150-2154.
- Asao, T.; Buchi, G.; Abdel-Kader, M.M.; Chang, S. B.; Wick, E.L. and Wogan, G.N. (1965):** The structures of aflatoxins B and G. *J. Am. Chem. Soc.*, 87: 882-886.
- Asao, T.; Buchi, G.; Abdel-Kader, M.M.; Chang, S.B.; Wick, E.L. and Wogan, G.N. (1963):** Aflatoxins B and G. *J. Am. Chem. Soc.*, 58: 706-707.
- Awad, A.A., Abou-EL Fetouh, M.S. and EL-Darawany, A.A. (1989):** Experimental studies on the toxic and teratogenic effect of aflatoxin (B₁ and G₁) in albino rats. *Egypt. J. Comp. Pathol. Clinical Pathol.* 11: 157-173.
- Balz, F. (1991):** Ascorbic acid protects lipid in human plasma and low-density lipoprotein against oxidative damage. *Am. J. Clin. Nutr.* 54: Suppl. 6, 1113S-1118S.
- Barber, R.S., Braude, R., Mitchell, K.G., Harding, J.D.J.; Lewis, G. and Loosmore, R.M. (1968):** The effect of feeding toxic groundnut meal to growing pigs and its interaction with higher copper diets. *Brit. J. Nutr.* 22: 535-554.
- Barnes, J.M. (1970):** Aflatoxin as a health hazard. *J. Appl. Bacteriol.* 33: 285-298.
- Bassir, O. and Emafo, P.O. (1970):** Oxidative metabolism, Liver slices and microsomes. *Biochem. Pharmacol.*, 19: 1681-1687.

- Bassir, O. and Emerale, G.O. (1975):** Species differences in the metabolism of palmatoxins Ba and Ga in vitro. *Xenobiotica*, 5: 649-655.
- Bassir, O., and Bababunmi, E.A. (1969):** Inhibition of blood clotting factors by aflatoxin. *W. Afr. J. Bio. Appl. Chem.*, 12, 12: 28-35.
- Betina, V. (1989):** Biological effects of mycotoxins. In: V. Betina (Editor) *mycotoxins, chemical, biological and environmental aspects*. Elsevier, Amsterdam, PP. 42-85.
- Bhattacharya, R.K.; Francis, A.R. and Shetty, T.K. (1987):** Modifying role of dietary factors on the mutagenicity of aflatoxin B₁: In vitro effect of vitamins *Mut. Res.*, 188: 121-128.
- Blankenship, P.D.; Cole, R.J.; Sanders, T.H. and Hill, R.A. (1984):** Effect of geocarposphere temperature on pre-harvest colonization of drought-stressed peanuts by *Aspergillus flavus* and subsequent aflatoxin contamination. *Mycopathologia*, 85: 69-74.
- Blount, W.P. (1961):** Turkey "X" Diseases, *Turkey*, 9: 52-77.
- Blunder, G.O., Roc, D.J. Roger, R.D., Coker, N.B. and John, A.E. (1991):** Mycotoxins in food. *Med. Lab. Sci.*, 8: 71-282.
- Bokhary, H.A. and Naguib, Kh. (1983):** Production of mycotoxins by seed-borne fungi from Saudi Arabia. *Egypt J. Phytopathol.*, Vol. 15, No. 1-2, pp. 55-64.
- Brucato, M. Sandlof, S.F.; Bell, J. U. and Edds, G.T. (1986):** Aflatoxin B₁ toxicosis in dairy calves pretreated with selenium vitamin E. *Am. J. Vet. Res.*, 47: 179-183.
- Buchi, G. and Rae, I.D. (1969):** The structure and chemistry of the aflatoxins, PP. 55-75 in *aflatoxins* (Ed. Goldblatt, L.A.) Academic Press, New York.
- Buguera, J.A. Edds, G.T. and Osuna, O. (1983):** Influence of selenium and Aflatoxin B₁ of *Crotalaria* toxicity in turkey poults. *Am J. Vet. Res.*, 44: 1714-1717.

- Bullerman, L.B. (1974):** A screening medium and method to detect several mycotoxins in mold cultures. *Milk Food Technol.*, 37(1): 1-3.
- Bullerman, L.B. (1979):** Significance of mycotoxins to food safety and human health. *J. of Food Protection*, Vol. 42, No.1, 65-86.
- Burdaspal, P.A. and Gorostidi, Y.A. (1988):** Contamination of aflatoxins in unshelled and shelled peanuts *Alimentaria*, Enero-Febrero, 89: 51-53.
- Burton, G.W. and Traber, M.G. (1990):** Vitamin E.: antioxidant activity, biokinetics, and bioavailability. *Annu. Rev. Nutr.* 10: 537-382.
- Busby, W.E., and Wogan, G.N. (1984):** Aflatoxins. In: "Chemical carcinogens" (C.E. Searle, ed.), 2d Ed., PP. 945-1136. American Chemical Society, Washington, D.C
- Busby, W.F. and Wogan, G.N. (1979):** Food-borne mycotoxins and alimentary mycotoxicosis in food borne infections and intoxication. Edited by H.P. Riemann & F.L. Bryan, 2nd ed., P.519, Academic Press, New York.
- Bush, B.M. (1991):** Interpretation of laboratory results for small animal clinicians. Blackwell Scientific publications, U.K.
- Butler, W.H. (1964):** Acute toxicity of aflatoxin B₁ in rats. *Br. J. Cancer.* 18: 756-762.
- Butler, W.H. (1974):** Mycotoxins. *Food addit. Contam.*, 6: 1-28.
- Butler, W.H. and Barnes, J. M. (1963):** Toxic effect of groundnut meal containing aflatoxin to rat and guinea pigs. *British J. of Cancer*, 17: 699-710.
- Butler, W.H., Greenblatt, M., and Lijinsky, W. (1969):** Carcinogenesis in rats by aflatoxin B₁, G₁ and B₂. *Cancer Res.* 29, 2206-2211.

- Caldwell, A.G. and Jones, E.R.H. (1945):** The constituents of expressed West Indian Lime Oil. *J. Chem. Soc.*, 540-543.
- Cardeilhac, P.T., Shroeder, E.C., Combs, J.T. and Edds G.T. (1970):** Stunted pig from saws fed crude aflatoxins. *Toxicol. and Applied Pharmacol.* 17: 548-550.
- Carnaghan, R.B.A., Harrely, R.D. and O'Kelly, J. (1963):** Toxicity and fluorescence properties of aflatoxins. *Nature*, 200: 111.
- Chatterjee-D. and Mukherjee-S.K. (1998):** Nitric oxide production impairment and disruption in learning behaviour and memory of rats exposed to aflatoxin B₁. *Journal of Mycopathological Research.* 36: 2, 85-88; 5 ref.
- Cheeke P.R. and Shull L.R. (1985):** Natural toxicants in feeds and poisonous plants. AVI Publishing company, Westport, C.T.
- Choi-Y.K.; Jung-K.K.; Chae-K.Y.; Jang-I.; Lee-B.D. and Nahm-K.H. (1995):** Effects of vitamin E and selenium supplementation to diets containing aflatoxin B₁ on the contents of liver lipids and various blood parameters in rats. *Asian-Australasian-Journal of Animal-Science.* 8: 4, 379-385; 31 ref.
- Chow, C.K. (1991):** Vitamin E and Oxidative stress. *Free Radical Biol. Med.* 11: 215-232.
- Christensen, C.M. (1957):** Deterioration of stored grains by fungi. *Botan. Rev.*, 23: 108-134.
- Clark, D.; Jair, A.V. and Hatch, R.C. (1982):** Effects of various treatment on induced chronic aflatoxincosis in rabbits. *Am. J. Vet. Res.*, 43: 106-110.
- Clark, H.A. and Snedeker, S.M (2006):** Ochratoxin a: its cancer risk and potential for exposure. *J. Toxicol. Environ. Health B. Crit. Rev.* May-Jun: 9(3): 265-96.

- Claude, M. (1979):** Moulds toxins and Food. Translated with additional material by Maurice Moss. John, Wiley and Sons, New York.
- Cleveland, T.E.; Lax, A.R.; Lee, L.S. and Bhatnagar, D. (1986):** Identification of some enzymes involved in aflatoxin B₁ synthesis in *Aspergillus parasiticus*. Plant physical, 80: 18-25.
- Clifford, J. I., and Rees, K.R. (1967):** The action of aflatoxin B₁ on the rat liver. Biochemical J. 102: 65-75.
- Cole, R. and Cox, R.H. (1981):** Handbook of toxic fungal metabolics. Academic, Press, New York.
- Coles, E.H. (1986):** Veterinary Clinical pathology. Sauders W.B. Company, Philadelphia, U.S.A.
- Combs, Jr. G.R. (1974):** Dietary requirements for vitamin E and selenium measures at the cellular level in the chick. J. Nutr. 104: 1292-1303.
- Coodall, C.M. and Butler, W.H. (1969):** Aflatoxin carcinogenesis: Inhibition of liver cancer induction in hypophysectomized rats. Intern. J. Cancer, 4: 422-429.
- Cook, W. O.; Van Alstine, W.G. and Osweiler, G.D. (1989):** Aflatoxicosis in Iowa swine: eight cases (1983-1985), J. Am. Vet. Med. Assoc., 194: 554.
- Dalvi, R.R. and McGowan, C. (1984):** Experimental induction of chronic aflatoxicosis in chickens by purified aflatoxin B₁ and its reversal by activated charcoal, phenobarbitol, and reduced glutathionine. Poultry. Sci. 63: 485-491.
- Davis, N.D.; Diener, U.L. and Eldridge, D.W. (1966):** Production of aflatoxins B₁ and G₁ by *Aspergillus flavus* in a semisynthetic medium. Appl. Microbiology, 14: 378-380.

- Degan, G. H. and Neuman, H.G. (1978):** The major metabolites of aflatoxin B₁ in the rat is a glutathione conjugate. *Chem. Biol. Interact.* 22: 239-255.
- Deiongh, H.; Vles, R.O. and Vanpelt, J.G. (1964):** Determination of aflatoxins. *Nature*, 202: 466-467.
- Derell, C.; Anant, V.J. and Roger, C.H. (1982):** Effects of various treatment on induced chronic aflatoxicosis in rabbits. *Am. J. Vet. Res.*, 43, 126: 106-110.
- Desai, S.; Ghewande, M.P.; Nagaraj, G. Narayan, P.; Chauhan, S. and Singh, H. (1991):** Screening for resistance to *Aspergillus flavus* and aflatoxin production in groundnut. *Mycotoxin research*, 7: 79-84.
- Dhar Vishwa and S.N. Gurha (1988):** Seed mycoflora of French bean in relation to the seed colour. *Indian Jour. Of Pulses Research*, 1(2): 141-143. (c.f. *Seed Path. and Microbial.*, 1991, 2: 31).
- Diener, U.L. and Davis, N.D. (1969):** Aflatoxin formation by *Aspergillus flavus*. PP. 13-54. In L. A. goldblatt (ed) aflatoxin academic press, New York.
- Diener, U.L.; Cole, R.J.; Sanders, T.H.; Payne, G.A.; Lee, L.S. and Klich, M.A. (1987):** Epidemiology of aflatoxin formation by *Aspergillus flavus*. *Ann. Rev. Phytopathol*, 25: 249-270.
- Dimitrov, M.; M. Nikolcheva and E. Drenska (1987):** Studies on the presence of *Aspergillus* in grain of wheat, maize and bean. *Pochvoznanie, Agrokhimiya I Rastitelna Zashchita*, 22(3): 83-88. (c.f. *Seed Path.*, 1992, 3: 294).
- Diplock, A.T. (1995):** Safety of antioxidant vitamins and β -carotene. *Am. J. Clin. Nutr.*, 62 (Suppl.): 1510 S.
- Doerr, J. A., Huff, W.E., Wabeck, C.J., Chaloupka, G.W., May, J.D. and Merkley, J.W. (1983):** Effects of low level chronic

- aflatoxicosis in Broiler chickens. *Poultry Science*, 62: 1971-1977.
- Dorrell, C.J.; Anant, V.; Jain, R. and Itatch, C. (1982):** Effects of various treatment on induced chronic aflatoxicosis in rabbit. *Amer. J. Vet. Res.*, 43: 106-110.
- Doyle, M.P. and Marth, E.H. (1978a):** Bisulfited grades aflatoxins effect of temperature and concentration of bisulfite. *J. Food Prot.*, 41: 774-780.
- Duncan, J.R. and Prasse, K.W. (1977):** *Veterinary laboratory medicine*, Iowa State Univeristy Press, 30-51.
- E.O.S. (1990):** Maximum limits for mycotoxins in foods. Egyptian organization for standardization and Quality Control. ES: 1875-1990 U.D.C. 615-91, Aflatoxin. Ministry of Industry, Cairo, Egypt.
- Eaton, D.L. and Gallagher, E.P. (1994):** Mechanisms of aflatoxin carcinogenesis. In: *Annual reviews of pharmacology and toxicology*. Annual review Inc., Palo Alto: 135-172.
- Edds, G.T. (1973):** Acute aflatoxicosis: A review. *J.A.V.M.A.* 162: 304-309.
- El-Khadem, M.; M.M. Naguib and A.K. Abdel-Ghani (1975):** Aflatoxin in food stuff in Egypt. I. Peanut Mycoflora and Toxicity. *Microbiologia*, 12: 29-36.
- EL-Zahan, H.; EL-Ashry, M.A.; Tharwat, E.E.; Saad, M. M. and Amin S.O. (1996):** Rabbit and Aflatoxins: Effect of aflatoxins mixture on some blood plasma constituents of nature New Zealand, White rabbit boles. *Egyptian J. of Rabbit Science*, 6(1): 55-65.
- Eppley, R.M. (1968):** Screening method for zearalenone, Aflatoxins and Ochratoxin A. *J.A.O.A.C.*, 51: 74-78.

- Epstein, S., Bartus, B. and Farber, E. (1969):** Renal epithelial neoplasms induced in male rats by oral aflatoxin B₁, In: WHO, (1979), Environmental Health Criteria, Mycotoxins, Geneva, 11: 53.
- Espada, Y.; Domingo, M.; Gomez, J. and Calvo, M.A. (1992):** Pathological lesions following experimental intoxication with aflatoxin B₁ in broiler chickens. Res., Vet. Sci., 53: 275.
- F.A.O. (Food and Agriculture Organization) (1985):** Recent development concerning aflatoxins. FAO. Committee on Commodity Problem, Meeting, December, 9-13, Rome, Italy.
- Farombi, E.O.; Adepoju, B.F.; Ola-Davies, O.E. and Emerole, G.O. (2005):** Chemoprevention of aflatoxin B₁-induced genotoxicity and hepatic oxidative damage in rats by kolaviron, a natural bioflavonoid of *Garcinia kola* seeds. Eur. J. Cancer Prev., Jun; 14(3): 207-14.
- Forgacs, T. and Carll, W.T. (1962):** Mycotoxicosis, Adv. Vet. Sci., 7: 273-282.
- Friedman, M.A. and Wogan, G.N. (1970):** Liver nuclear and metabolism in rats treated with aflatoxin B₁. Life Sciences, 9: 741-747.
- Galvano, F.; Piva, A.; Ritieni, A. and Galvano, G. (2001):** Dietary strategies to counteract the effects of mycotoxins: a review. J. Food Prot. Jan; 64(1): 120-31.
- Garner, R.C. and Martin, C.N. (1979):** Fungal toxins, Aflatoxins and nucleic acid. In: Chemical carcinogens and DNA, Vol.I, P.L. Gover Beach, (CRC Press, West Palm Beach, FL), PP. 187-210.
- Ghaffar, Y.; Zeni, M.; Khalil, A. and Abdel Aziz, T. (1988):** Chronic active hepatitis in the rat due to aflatoxin administration and experimental model. Afro-Arab liver Journal, (1988), 1: 43-47.

- Gill, B.S.; Ray, K.S. and Saigal, R.P. (1984):** Histoenzymological study of the liver in induced chronic aflatoxicosis in the rabbit. *Mykosen*, 27: 259-264.
- Gilman, J.C. (1957):** A manual of soil fungi. Iowa state University Press, Ames., Iowa, U.S.A., P.250
- Godoy, H.M., Judah, D.J., Arora, H.L., Neal, G. E. and Jones G. (1976):** The effects of prolonged feeding with aflatoxin B₁ on adult rat liver cancer *Res.* 36, 2399-2407.
- Gopuiath, C.; Prentic, D.E. and Lewis, D.J. (1987):** Atlas of experimental toxicological pathology. Current histopathology, 30: 43-61, MTP Press Limited, Lan Corster, Boston. The Hogue-Derdecht.
- Gradelet, S.; Astorg, P.; Le Bon, A.M., Berges, R., and Suschetet, M. (1997):** Modulation of aflatoxin B₁ carcinogenicity, genotoxicity and metabolism in rat liver by dietary carotenoids: evidence for a protective effect of CYP1A inducers. *Cancer Lett.*, 114: 221-223.
- Gradelet, S.; Le Bon, A.M.; Berges, R.; Suschetet, M. and Astorg, P. (1998):** Dietary carotenoids inhibit aflatoxin B₁-induced liver preneoplastic foci and DNA damage in the rat: role of the modulation of aflatoxin B₁ metabolism. *Carcinogenesis*. Mar; 19(3): 403-11.
- Grice, H.C., Moodie, C.A. and Smith, D.C. (1973):** The carcinogenic potential of aflatoxin or its metabolites in rats from Dams fed aflatoxin pre and post partum. *Cancer Research* 33: 262-268.
- Guengerich, F.P. (1993):** The 1992 Bernard, B. Brodie avarad lecture: Bioactivation and detoxification of toxic and carcinogenic chemicals. *Drug. Metab. Disp.*, 21: 1-6.

- Gumbman, M. and Williams, S. N. (1969):** Biochemical effect of B₁ in pigs. *Toxicol and Applied Pharmacol.* 15: 393-404.
- Hall, A.J. and Wild, C.P. (1994):** Epidemiology of aflatoxin-related disease. In: Eaton D.L., Groopman, T.O., eds. *The toxicology of aflatoxins: human health, veterinary and agricultural significance.* New York: Academic Press: 233-258.
- Halliwell, B. and Chirico, S. (1993):** Lipid peroxidation, its mechanisms, measurement and significance. *Am. J. Clin. Nutr.* 57: 7155-255.
- Hamilton, P.B. (1977):** Interrelationship of mycotoxin with nutrition. *Fed. Proc.*, 36: 1899-1902.
- Hamilton, P.B., Tung, H.T., Wyatt, R.D. and Donaldson, W.E. (1974):** Interaction of dietary aflatoxin with some vitamin deficiencies. *Poultry Sci.* 53: 871-877.
- Hansen, H.N. (1926):** A simple method of obtaining single spore culture. *Science* 64: 384, 1659.
- Harisson, P. and Tjalve, H. (1995):** Extrahepatic bio-activation of aflatoxin B₁ in fetal infant and adult rats: *Chemico-Biological Interaction*, 94: 1-19.
- Harvey, R.B.; Kubena, L.F. and Elissalde, M.H. (1994):** Influence of vitamin E aflatoxicosis in growing swine *Am. J. Vet Res.*, 55: 572-577.
- Harwig, J.; Scot, P.M.; Soltz, D.R. and Blanchfield, B.J. (1979):** Toxins of molds from decaying tomato fruits. *Appl. And Environmental Microbial.* August, 241-274.
- Heathcote, J.G. (1984):** Aflatoxins-production, isolation, separation and purification. Elsevier Science Publishers, B.V., Amsterdam, Netherland.

- Heathcote, J.G. and Hibbert, J.R. (1978):** Aflatoxins: Chemical and biological aspects. Elsevier Scientific Publishing Co. Amsterdam C.F.J. of Food protect. 50: 504-508.
- Hegested, D.M.; Mills, R.C.; Elvehjem, C.A. and Hart, F.B. (1941):** Choline in the nutrition of chick. J. Biol. Chem. 138: 459.
- Hendrickse, R. G. (1991):** Kwashiorkor: The hypothesis that incriminates aflatoxin. Pediatrics, 88: 376.
- Huff, W.E. (1980):** Discrepancies between lone ash and toeash during aflatoxicosis. Poult. Sci., 59: 2213-2215.
- IARC (International Agency For Research on Cancer, 1993):** Some naturally occurring substances food items and constituents, heterocyclic amines and mycotoxins. IARC monograph on the evaluation of carcinogenic risk to humans, No. 56 (Lyon: IARC).
- Ibeh, I.N. and Saxena, D.K. (1998):** Effect of alpha-tocopherol supplementation on the impact of aflatoxin B₁ on the testes of rats. Exp. Toxicol. Pathol., 50: 221-224.
- Ibeh, I.N. and Saxena, D.K. (1998):** Effect of alpha-tocopherol supplementation on the impact of aflatoxin B₁ on the testes of rats. Exp. Toxicol. Pathol. Jun; 50(3): 221-4.
- IFCC (International Federation of Clinical Chemistry) (1980):** Scientific committee expert panel on enzymes J. Clin. Chem. Clin. Biochem., 18: 521-534.
- Iida, N.; Myobudani, H.; Sugiyama, A.; Ohtsubo, K.; Ueno, Y. and Tashiro, F. (1997):** Overexpression of c-myc gene is required for tamoxifen-elicited apoptosis in aflatoxin B₁ induced rat hepatoma cells. Research Communications in Biochemistry and Cell, Molecular Biology, 1: 229-247.

- Jarvis, B. (1976): Mycotoxins in food: In: Microbiology in Agriculture. Fisheries and Food, pp. 251-267. Ed F. A. Skinner, J. G. Corr.
- Jones, T.C. and Hunt, R.D. (1983): Veterinary pathology. 5th ed., Lea. and Febiger Philadelphia, P. 708-712.
- Karakilcik, A.Z.; Zerin, N.; Arslan, O.; Nazligul, Y. and Vural H. (2004): Effects of vitamin C and E on liver enzymes and biochemical parameters of rabbits exposed to aflatoxin B₁. Vet. Hum. Toxicol. Aug; 46(4): 190-2.
- Kehrer, J.P. (1993): Free radicals as mediators of tissue injury and disease. Crit. Rev. Toxicol. 23: 21-48.
- Keyl, A.C. and Booth, A.N. (1971): Aflatoxin effects in livestock. J. Am. Oil Chem. Soc., 48: 599-600.
- Kumagai-S.; Sugita-Konishi, Y.; Hara-Kudo-Y.; Ito-Y.; Noguchi-Y.; Yamamoto-Y. and Ogura-A. (1998): The fate and acute toxicity of aflatoxin B₁ in the mastomys and rat. Toxicon-Oxford, 36: 1, 179-188; 21 ref.
- Lacey, J. (1990): Mycotoxins in UK Cereals and their control. Aspects of Applied Biology, 25: 395-405. (c.f. Rev. of Pl. Path., 1992-071-01355).
- Lanza, G.M., Washburn, K.W. and Wyatt, R.D. (1980): Strain variation in hematological response of broilers to dietary aflatoxin. Poult. Sci. 59, 2: 282-288.
- Lanza, G.M.; Washburn, K.W.; Wyatt, R.D. and Edwards, J.R. (1979): Depressed ⁵⁹Fe absorption due to dietary aflatoxin. Poultry SCL., 58: 1439-1444.
- Larsen, K. (1972): Creatinine assay in the presence of protein with LKB 8600 reaction rate analyzer. Clin. Chem. Acta. 41: 209-217.

- Li Yu, F. (1977): Mechanism of aflatoxin B₁ inhibition of rat hepatic nuclear RNA synthesis. *J. Biological Chemistry*, 255: 3215-3251.
- Li-Jingpeng; Qin-LiRang, Li-J.P. and Qin, L.R. (1995): Effects of aflatoxin on rat cellular immunity, *Acta-Veterinaria-et-Zootechnica, Sinica*, 26: 5, 435-440; 11 ref.
- Lillehoj, E.B., Ciegler, A. and Derroy, R.W. (1970): Fungal toxins. In: *Essays in Toxicology*. F.R. Blood (Ed.). Acad. Press. N.Y.
- Lillehoj, E.B., Kwolek, W.F., Shannon, G.M., Shotwell, O.L. and Hesseltine, C.W. (1975): Aflatoxin occurrence in 1973 field corn, I. A limited survey in the south eastern United States., *Cereal Chem.* 52, 603.
- Lim, S.K.; Ch'ng, A.L.; Bay-Yeo, T.K. and Lack-Lee, S.L. (1991): Aflatoxin levels in raw commodities. *Singapore J. Pri. Ind.*, 19: 59-63.
- Lin, J.K. and Wang, C.J. (1986): Protection of crocin dyes on the acute hepatic damage induced by aflatoxin B₁ and dimethylnitrosamine in rats. *Carcinogenesis* 7: 595-599.
- Lin, J.K., Miller, J.A. and Miller, E.C. (1978): 2,3-dihydro-2(guan-7-yl)-3-hydroxy-aflatoxin B₁ a major acid hydrolysis product of aflatoxin B₁-DNA on ribosomal RNA adducts formed in hepatic microsome mediated reactions rat liver in vivo. *Cancer Res.* 37: 4430-4438.
- Liu, Y.L., Roebuck, B.D., Yager, J.D., Groopman, J.D., and Kensler, T.W. (1988): Protection by 5-(2-pyrazinyl)-4-methyl-1,2-dithiol-3-thione (oltipraz) against the hepatotoxicity of aflatoxin B₁ in the rat. *Toxicol. Appl. Pharmacol.* 93, 442-451.

- Lynch, G.P., Corey, F.T., Smith, D.F. and Weini and B.T. (1972):**
Response of calves to a single dose of aflatoxin. J. Anim. Sci.
35: 65-68.
- Lynch, G.P., Todd, W.T., Shalkop and Moor, L.A. (1970):** Response of
dairy calves to aflatoxin contaminated food. J. Dairy Sci. 53:
63-71.
- Lynch, G.P.; Shalkop, W.T.; Jacoby, N.M.; Smith, D.F.; and Miller,
R.W. (1971):** Responses of dairy calves to oral doses of
aflatoxin. J. Dairy Sci., 54: 1688.
- Madhavan, T.V. and Gopalan. C. (1968):** The effect of dietary protein
on carcinogenesis of aflatoxin. Arch. Pathol. 85, 133-137.
- Margolles-E.; Escobar-A.; Acosta-A. and Diaz-M.F. (1995):**
Aflatoxins in mice livers after their intraperitoneal injection.
Revista-de- Salud, Animal, 17: 2, 211-214; 19 ref.
- Marsas, W.F.O.; Nelson, P.E. and Toussoun, T. (1984):** Toxigenic
fusarium species, Identification and Mycotoxicology. The
Pennsylvania State University Press, University Park, pp.328.
- Mehan, V.K.; McDonald, D.; Nigam, S.N. and Lalitha, B. (1981):**
Groundnut cultivars with resistance to invasion by *Aspergillus
flavus*, Olegineux, 36: 501-505.
- Micco, C.; Grossi, M.; Miraglia, M. and Brera, C.A. (1989):** Study of
contamination by ochratoxin A of green and roasted coffee
beans. Food addit. Contam., 6: 333-339.
- Mobarak, M.S.; Badawy, S.A. and Ahmed, Y.F. (1996):** Biological
effects of graded levels of dietary aflatoxin B₁ with special
reference to reproduction in laying Japanese quail. J. Union.
Arab. Biol., Vol. 5 (A) Zoology, 251-268.

- Mohamed, H.D. and Mokhbatly, A.A. (1997):** Pathologic and immunologic evolution of activated charcoal in treatment of experimental aflatoxicosis B₁ in *Tilapia Nilotica*. Egypt J. Comp. Path. and Clin. Path., 10: 169-185.
- Morimura, S.; Tashiro, F. and Ueno, Y. (1990):** Establishment and characterization of cell lines (Kagura-I and Kagura-2) from aflatoxin B₁-induced rat hepatoma. Chem. Pharm. Bull., 38: 460-463.
- Myandieka, H.S. (1986):** Metabolic effect of aflatoxin B₁ on the activity of drugmetabolizing enzymes and plasma level of marker enzymes of liver disorder in reaction to nutritional stress. Indian, J. Med. Res., 83: 538-545.
- Naguib, K.; A.F. Sahab, M. Metwally and A.A. El-Sayed (1989):** Fungal flora associated with corn grains with special references to vomitoxin production. African Journal of Agricultural Science, 16(1/2): 31-41. National Research Center, Dokki, Egypt. (c.f. Plant Path., 1993, 72 (10): 773.
- Nakatsuru, Y.; Qin, X.; Masaheto, P. and Ishikawa, T. (1990):** Immunological detection of in vivo aflatoxin B₁-DNA adduct formation in rats, rainbowtrout and Coho salmon. Carcinogenesis, 11: 1523-1526.
- Nassar, A.Y.; Galal, A.F.; Mohamed, M.A.; Megalla, S.E. and Hafez, A.H. (1985):** The effect of aflatoxin B₁ on the utilization of serum calcium. Mycopathologia, 91: 127-131.
- National Research Council (NRC) (1978):** Nutrient requirements of domestic animals. No.10 Nutrient requirements of laboratory animals. Page 64. National Academy of Sciences, Washington, DC.

- Neal, G.E. and Cabral, J.R. P. (1980):** Effect of partial hepatectomy on the response of rat liver to aflatoxin B₁. *Cancer Res.* 40, 4739-4743.
- Netke, S.P.; Roomi, M.W.; Tsao, C. and Niedzwiecki, A. (1997):** Ascorbic acid protects guinea pigs from acute aflatoxin toxicity. *Toxicol. Appl. Pharmacol.*, 143: 429-435.
- Newberne, P.M. and Butler, W.H. (1969):** Acute and chronic effects of aflatoxin on the liver of domestic and laboratory animals. A review. *Cancer, Res.*, 29: 236-239.
- Newberne, P.M., Carlton, W.W. and Wogan, G.N. (1964):** Hepatomas in rats and hepatorenal injury in duckling fed peanut meal or *Aspergillus flavus* extract. *Path. Vet.* 1: 105-132.
- Newberne, P.M., Russo, R. and Wogan, G.N. (1966):** Acute toxicity of aflatoxin B₁ in dog. *Pathol. Vet.* 3: 331-340.
- Niki, E. (1991):** Action of ascorbic acid as a scavenger of active and stable oxygen radicals. *Am. J. Clin. Nutr.* 54: Suppl.6, 1119S-1124S.
- Osborne, D.J. and Hamilton, P.B. (1981):** Decreased Pancreatic digestive enzymes during aflatoxicosis. *Poultry Sci.* 60: 1818-1821.
- Osborne, B.G. (1982):** Mycotoxins and the cereal industry, a review, *J. Food Technol.*, 17: 1-9.
- Osuna, O. and Eddes, G.T. (1982):** Toxicology of aflatoxin B₁, warfarin and cadmium in young pigs. *Clinical Chemistry and Blood-coagulation. Am. J. Vet. Res.*, 243: 1387-1394.

- Osuna, O.; Edds, G.T. and Blankespoor, H.D. (1977):** Toxic effects of aflatoxin B₁ in male Holstein calves with prior infection by flukes (*Faciola hepatus*). *Am. J. Vet. Res.*, 38: 341-349.
- Park, Y. and Bullerman, B.L. (1983):** Effect of substrate and temperature on aflatoxin production by *Aspergillus parasiticus* and *Aspergillus flavus*. *J. Food Protection*, 46: 178.
- Paul, M.C. and R. R. Mishra (1992):** Studies on seed mycoflora of maize I. Seasonal variation in mycoflora. *Crop Research (Hisar)*, 5, 225-232 (c.f. *Plant Path.*, 1993, 72(9): 684.
- Pearlman, F.C. and Lee, R.T.Y. (1974):** Detection and measurement of total bilirubin in serum with use of surfactants as solubilization agent. *Clin. Chem.*, 20: 447-453.
- Pearson, S.A., Stanley, V.G., Reine, A.H., Huff, W.E., Kuben, L.F. and Harvey, R.B. (1990):** Research note: single and combination effects of administration salinomycin and aflatoxin to broiler chicks. *Poultry Sci.* 69: 849-851.
- Peers, F.G., and Linsell, C.A. (1975):** Aflatoxin contamination and its heat stability in Indian cooking oils. *Trop. Sci.*, 17: 229-232.
- Pier, A.C. (1992):** Major biological consequences of aflatoxicosis in animal production. *J. of Animal Science*, 70: 3464-3467.
- Pons, W.A. and Goldblatt, L.A. (1965):** The determination of aflatoxins in cotton seed products. *J. Am. Oil Chemists, Soc.*, 42: 471-475.
- Pozzi, C.R.; Correa, B.; Xavier, J.G.; Direito, G.M. Orsi, R.B. and Matarazzo, S.V. (2001):** *Mycopathologia*, 151(1): 21-7.
- Qasem, S.A. and Christensen, C.M. (1958):** Influence of moisture content, temperature and time on the deterioration of stored corn by fungi. *Phytopathol.* 48: 544.
- Qin-Guozhong; Gopalan-Kriczky-P.; Su-Jianjia; Ning-Yaoyu; Lotlikar- P.D.; Qin-CZ.; Su-J.J. and Ning-Y.Y. (1997):**

- Inhibition of aflatoxin B₁-induced initiation of hepatocarcinogenesis in the rat by green tea. *Cancer, Letters*, 112:2, 149-154; 32 ref.
- Ramos, A.J. and Hernandez, E. (1996):** In situ absorption of aflatoxin in rat small intestine. *Mycopathologia*, 134: 27-30.
- Rao, K.S. and Gehring, P.J. (1971):** Acute toxicity of aflatoxin B₁ in monkey. *Toxicol. Appl. Pharmacol.* 19: 169-175.
- Raper, K.B. and Fennell, D.I. (1965):** The Genus *Aspergillus*. Williams and Wilkins. Baltimore, U.S.A.
- Raper, K.B. and Thom, C. (1949):** A manual of the *Penicillia*. Williams and Wilkins, Baltimore, U.S.A.
- Rastogi, R.; Srivastava, A.K. and Rastogi, A.K. (2001):** Biochemical changes induced in liver and serum of aflatoxin B₁-treated male wistar rats, preventive effect of picroliv. *Pharmacol-Toxicol*, Feb., 88(2): 53-8.
- Rati, E.R; Shantha, T. and Ramesh, H.P. (1991):** Effect of long term feeding and withdrawal of aflatoxin B₁ and ochratoxin A on kidney cell transformation in albino rats. *Indian J. Exp. Biol.*, 29: 813-817.
- Ray, A.C., Abbitt, B., Cotter, S.R., Murphy, M.J., Reagor, J.C., Robinson, R.M., West, J.E. and Witford, H.W. (1986):** Bovine abortion and death associated with consumption of aflatoxin contaminated peanut. *J.A. V.M.A.* 188: 1187-1188.
- Reddy, R.S.; Reddy, V.R.; Rao, P.V. and Reddy, V.R. (1991):** Effect of dietary aflatoxin on protein quality and metabolizability of energy in chicks. *Indian Journal of Animal Sciences*, 61: 1132.
- Reddy, V.K. and S.M. Reddy (1989):** Seed mycoflora of mazie. *Indian Botanical Reporter*, 8(1): 76-77 (c.f. *Seed Path. and Microbial*, 1991, 2:30).

- Rheeder, J.P. W.E. Sydenham, W.F.O. Marasas, P.G. Thiel, G.S. Shephard and M. Schlechter (1995):** Fungal infestation and mycotoxin contamination of South Africa commercial maize harvested in 1989-1990. *South Africa Journal of Science*, 91(3): 127-131.
- Rogers, A.E. and Newberne P.M. (1967):** The effect of aflatoxin B₁ and dimethyl sulphoxide on thymidine and mitosis in rat liver. *Cancer Research* 27: 855-864.
- Rogers, A.E. Kula, N.S., and Newberne, P.M. (1971):** Absence of an effect of partial hepatectomy on aflatoxin B₁ carcinogenesis. *Cancer Res.* 31, 491-495.
- Ross, R.K.; Yuan, J.; Yu, M.C.; Wogan, G. N.; Tu, J.; Groopman, J.D.; Gao, Y.T. and Henderson, B.E. (1992):** Mycotoxins. *Lancet.*, 339: 943-948.
- Rotruck, J.T., A.L. Pope, H.E. Ganther, A.D. Swanson, D.G. Hafeman and W.G. Hoekstra (1973):** Selenium: Biochemical role as a component of glutathione peroxidase. *Science* 179: 588-598.
- Sabino, M.; Purchio, A. and Milanez, T.V. (1995):** Aflatoxins B₁, M₁ and aflatoxinol in tissues and urine of calves receiving aflatoxin. *Food Additives and contaminants*, 12: 467-472.
- SAS User Guide Statistics, Version 6.0 (1993):** SAS Inst., Inc., Cary, NC.
- Schoental, R. (1967):** Aflatoxins. *Ann. Rev. Pharmacol.*, 7: 343-356.
- Schuller, P.L. and Van Egmond, H.P. (1983):** Determination of aflatoxin B₁ in feeding stuffs. *March.*, 2-9.
- Schwarz, K. (1962):** Vitamin E, Trace elements and sulfhydryl groups in respiratory decline. *Vitam. Horm.* 20: 463-484.

- Scott, M.L. (1978):** Vitamins E. In: The fat soluble vitamins (Deluca, H.F., ed.), PP. 133-210. Plenum Press, New York, NY.
- Shaaban, F.E., Abou-Hadeed, A. H., Eshazly, M.O. and Gammel, A.A. (1991):** Detection and estimation of aflatoxin in stored grains and pathological effect of its feed in rat and chickens. Egypt. J. Comp. Pathol., Clinical Pathol. 2: 339-357.
- Shank, R.C., Wogan, G. and Gibson, J.B. (1972):** Dietary aflatoxins and human liver cancer. I. Toxigenic moulds in foods and food stuffs of tropical South-East Asia, Food and Coms. Toxicology 100(1): 51.
- Shannon, G.M.; Shotwell, P.L. and Kwolek, W.F. (1983):** Extraction and thin layer chromatography of aflatoxin B₁ in mixed feeds. J. Assoc. Anal. Chem., 66: 582.
- Snedcor, G.W. and Cochran, G.W. (1980):** Statistical methods 6th ed. The Iowa State, Univ. Press. Iowa, U.S.A.
- Soni-K.B.; Lahiri-M.; Chackradeo-P.; Bhide-S.V. and Kuttan-R. (1997):** Protective effect of food additives on aflatoxin-induced mutagenicity and hepatocarcinogenicity. Cancer-Letters, 115: 2, 129-133; 23 ref.
- Souza-M.F.; Tome-A.R. and Rao-V.S.N. (1999):** Inhibition by the bioflavonoid ternation of aflatoxin B₁-induced lipid peroxidation in rat liver. Journal of pharmacy and Pharmacology, 51: 2, 125-129; 23 ref.
- Stevens, A.J., Saunders, C.N. and Spence, J.B. (1960):** Cited from Veterinary Toxicology (1981).
- Stoloff, L. (1977):** Occurrence of mycotoxins in foods and feeds. In: J.V. Rodricks; C.W. Hesseltine; M. Hamed Mehlman (eds). Mycotoxins in Human and Animal Health. Pathtox Publishers Inc., Park Forest South, Ellinois, PP. 23-50.

- Subramaniam, P. and Rao, A.S. (1976):** *Aspergillus flavus* isolation from groundnut. Trans. Br. Mycol. Soc., 66: 551-552.
- Swenson, D.H., Lin, J.K., Miller, E.C. and Miller, J.A. (1977):** Aflatoxin B₁-2,3-oxide as a possible intermediate in the covalent binding of aflatoxin B₁ and aflatoxin B₂ to rat liver DNA and ribosomal RNA in vivo. Cancer Res. 37: 172-181.
- Tabacco, A.; Bardelli, F.; Meiattini, F. and Tarl (1979):** Simplified enzymic colorimetric serum urea determination. Clin. Chem. 25: 336-346.
- Tamimi-S.O; Natour-R.M. and Halabi-K.S. (1997):** Individual and combined effects of chronic T-2 toxin and aflatoxin B₁ mycotoxins on rat liver and kidney. Arab-Gulf Journal of Scientific Research, 15: 3, 717-732; 16 ref.
- Tappel, A.L. (1972):** Vitamin E and Free radical peroxidation of lipids. Ann. N.Y. Acad. Sci. 203: 12-28.
- Temcharoen, P.; Anukarahanonta, T. and Bhamarapravati, N. (1978):** Influence of dietary protein and vitamin B₁₂ on the toxicity and carcinogenicity of aflatoxins. Cancer Res., 38: 2185-2190.
- Terao, K. (1971):** Trans. Soc. Path. Japan 60: 19. Cited by Uraguchi, K. and Yamazoko, M. (1978).
- Thamman, N.P., Gaihotra and Gupta, P.P. (1987):** Pathological changes in experimental aflatoxicosis in dogs. Indian J. of Animal Sci. 57: 537-541.
- Thom, C. and Raper, K.B. (1945):** A manual of the *Aspergilli* Williams and Wilkins Co., Baltimore, Md.
- Todd, G.C., Shalkop, W.T., Dooley, K.L. and Weiman, H.G. (1968):** Effects of ration modifications on aflatoxicosis in the rat. Am. J. Vet. Res. 29: 1855-1861.

- Toskulkao-C.; Ubolsakka-C.; Temcharoen-P. and Glinsukon-T. (1996):** Effect of endurance exercise training on aflatoxin B₁ hepatotoxicity in rats, *Journal of Clinical Biochemistry and Nutrition*. 20: 1, 37-47; 24 ref.
- Towner, R.A.; Mason, R.P. and Reinke, L.A. (2002):** In vivo detection of aflatoxin-induced lipid free radicals in rat bile. *Biochim. Biophys Acta*. Oct. 10; 1573(1): 55-62.
- Van der Merwe, K.J.; Fourie, L. and Scott, De B. (1963):** The structure of the aflatoxins, *Chem. Ind. London*, 1600-1661.
- Van Rensburg, S. J.; Van Der Watt, J.J.; Purchase, I. F.H.; Pereira Countinho, L. and Markham, R. (1974):** Primary Liver cancer rate and aflatoxin intake in a high cancer area, South Africa. *Medical J.*, 48: 2508-2513.
- Vesselinovitch, S.D., Mihailovich, N., Wogan, G.N., Lombard, L.S., and Rao, K.V. N. (1972):** Aflatoxin B₁, a hepatocarcinogen in the infant mouse. *Cancer Res* 3, 2289-2291.
- Waliyar, F. (1994):** Sources of resistance to *Aspergillus flavus* and aflatoxin contamination in groundnut genotypes in West Africa. *Plant disease*, 7: 704-708.
- Wangikar, P.B.; Dwivedi, P. and Sinha, N. (2004):** Effect in rats of simultaneous prenatal exposure to ochratoxin A and aflatoxin B₁. I. Maternal toxicity and fetal malformations. *Birth Defects Res. B. Dev Reprod. Toxicol.* Dec. 71(6): 343-51.
- Wangikar, P.B.; Dwivedi, P.; Sinha, N.; Sharma, A.K. and Telang, A.G. (2005):** Teratogenic effects in rabbits of simultaneous exposure to ochratoxin A and aflatoxin B₁ with special reference to microscopic effects. *Toxicology*. Nov. 5; 215(1-2): 37-47.

- Wangikar, P.B.; Dwivedi, P; Sharma, A.K. and Sinha, N. (2004):** Effect in rats of simultaneous prenatal exposure to ochratoxin A and aflatoxin B₁, II. Histopathological features of teratological anomalies induced in fetuses. *Birth Defects Res. B. Dev. Reprod Toxicol.*, 71 (6): 352-8.
- Weidenborner, M. and Kunz, B. (1994):** Contamination of different muesli components fungi. *Mycol. Res.*, 98: 583-586.
- Williams, G. M. and Iatropoulos, M.J. (1996):** Inhibition of the hepatocarcinogenicity of aflatoxin B₁ in rats by low levels of the phenolic antioxidants butylated hydroxyanisole and butylated hydroxytoluene, *Cancer, Letters*, 104: 1, 49-53; 19 ref.
- Wogan, G.N. (1965):** Experimental toxicity and carcinogenicity of aflatoxins, In: *Mycotoxins in food stuffs*. G. N. Wogan (Ed.), MIT Press, Cambridge, PP. 163-173.
- Wogan, G.N. (1973):** Aflatoxin carcinogenesis, *Methods in cancer research*. 7, edited by H. Bush (New York, Academic Press) PP. 309-344.
- Wogan, G.N. (1975):** Mycotoxins, *Annu. Rev. Pharmacol.*, 15: 437.
- Wogan, G.N., and Newberne, P.M. (1967):** Dose-response characteristics of aflatoxin B₁ carcinogenesis in the rat. *Cancer Res.* 27, 2370-2376.
- Wogan, G.N., Edwards, G.S., and Newberne, P.M. (1971):** Structure-activity relationship in toxicity and carcinogenicity of aflatoxins and analogs. *Cancer Res.* 31, 1936-1942.
- Wogan, G.N., Pagliolunga, S., and Newberne, P.M. (1974):** Carcinogenic effects of low dietary levels of aflatoxin B₁ in rats. *Food Cosmet. Toxicol.* 12, 681-685.

- Wogan, G.N.; Edwards, G.S. and Newberne, P.M. (1971):** Aflatoxin in rats. *Newberne, Cancer Res.*, 31: 1936-1940.
- Yin, S.; Koe, M. C. and Lee, S.G. (1980):** Sequential biochemical histochemical changes in rats treated with aflatoxin B₁. *Brit J. Cancer*, 42: 319-325.
- Yousef, M.I.; Salem, M.H.; Kamel, K.I.; Hassan, G.A. and El-Nouty F.D. (2003):** Influence of ascorbic acid supplementation on the haematological and clinical biochemistry parameters of male rabbits exposed to aflatoxin B₁. *J. Environ. Sci. Health B. Mar*; 38(2): 193-209.