

REFERENCES

- Abbas AK., Janeway Jr CA. Immunology: improving on nature in the twenty-first century. *Cell*. 2000; 100: 129-138.
- Abbas AK., Lichtman AH. Cellular and molecular immunology, 5th ed. Saunders, Philadelphia, PA, 2003.
- Abbas AK., Murphy KM., Sher A. Functional diversity of helper T lymphocytes. *Nature*. 1996; 383: 787-93.
- Abel S., Gelderblom WCA. Oxidative damage and Fumonisin B₁-induced toxicity in primary rat hepatocytes and rat liver in vivo. *Toxicology*. 1998; 131: 121-31.
- Adams OD., Hamilton TA. Molecular basis of macrophage activation and its origins. Oxford University Press, New York, pp. 75-114, 1992.
- Adhikari M., Ramjee G., Berjak P. Aflatoxin; kwashiorkor, and morbidity. *Natural Toxins*. 1994; 2: 1-3.
- Ajchenbaum F., Ando K., DeCaprio JA., Griffin, JD. Independent regulation of human D-type cyclin gene expression during G1 phase in primary human T lymphocytes. *J Biol Chem*. 1993; 268: 4113-9.
- Andrews L., Lokuge S., Sawyer M., Lillywhite L., Kennedy D., Martin J. The use of alternative therapies by children with asthma: a brief report. *J Pediatric Child Health*. 1998; 34: 131-4.
- Arpaia MR., Ferrone R., Amitrano M., Nappo C., Leonardo G., del Guercio R. Effects of *Centella asiatica* extract on mucopolysaccharide metabolism in subjects with varicose veins. *Int J Clin Pharmacol Res*. 1990; 10: 229-33.
- Babu TD., Kuttan G., Padikkala J. Cytotoxic and anti-tumour properties of certain taxa of Umbelliferae with special reference to *Centella asiatica* (L.) Urban. *J Ethnopharmacol*. 1995; 48: 53-7.
- Baud V., Liu ZG., Bennett B., Suzuki N., Xia Y., Karin M. Signaling by proinflammatory cytokines: oligomerization of TRAF2 and TRAF6 is sufficient for JNK and IKK activation and target gene induction via an amino-terminal effector domain. *Genes Dev*. 1999; 13: 1297-308.

- Beardall JM., Miller JD. "Disease in human mycotoxins as possible causes" in: Mycotoxin in grain. St Pual, MN: Eagan, pp 540-847, 1994.
- Belcaro GV., Grimaldi R., Guidi G. Improvement of capillary permeability in patients with venous hypertension after treatment with TTFCA. *Angiology*. 1990; 41: 533-40.
- Belcaro GV., Rulo A., Grimaldi R. Capillary filtration and ankle edema in patients with venous hypertension treated with TTFCA. *Angiology*. 1990; 41:12-8.
- Bennett JW., Klich M. Mycotoxins. *Clin Microb Reviews*. 2003; 16: 497-516.
- Biron CA., Nguyen KB., Pien GC., Cousens LP., Salazar-Mather T. Natural killer cells in antiviral defense: function and regulation by innate cytokines. *Annu Rev Immunol*. 1999; 17: 189-220.
- Block KI., Mead MN. Immune system effects of Echinacea, ginseng, and astragalus: A review. *Integr Cancer Ther*. 2003; 2: 247-67.
- Bogdan C., Rollingshoff M., Diefenbach A. Reactive oxygen and reactive nitrogen intermediates in innate and specific immunity. *Curr Opin Immunol*. 2000; 12: 64-76.
- Bondy GS., Pestka JJ. Immunomodulation by fungal toxins. *J Toxicol Environ Health*. 2000; 3: 109-43.
- Bradwejn J., Zhou Y., Koszycki D., Shlik J. A double-blind, placebo-controlled study on the effects of Gotu Kola (*Centella asiatica*) on acoustic startle response in healthy subjects. *J Clin Psychopharmacol*. 2000; 20: 680-4.
- Bressac B., Kew M., Wands J., Ozturk M. Selective G to T mutations of p53 gene in hepatocellular carcinoma from southern Africa. *Nature*. 1991; 350: 429-31.
- Brown JC., Hunt RC. Lectins. *Int Rev Cytol*. 1978; 52: 277-349.
- Bucci T., Hansen DK., LaBorde JB. Leucoencephalomalacia and hemorrhage in the brain of rabbits gavaged with mycotoxin fumonisin B1. *Nat Toxins*. 1996; 4: 51-2.
- Bunpo P., Kataoka K., Arimochi H., et al. Inhibitory effects of *Centella asiatica* on azoxymethane-induced aberrant crypt focus formation and carcinogenesis in the intestines of F344 rats. *Food Chem Toxicol*. 2004; 42: 1987-97.
- Busby WF., Wogan GN. "Aflatoxins" in Chemical carcinogens. American chemical society, Washington, DC, pp 945-1136, 1984.

- Carroll MC. The role of complement and complement receptors in induction and regulation of immunity. *Annu Rev Immunol.* 1998; 16: 545-68.
- Cesarone MR., Incandela L., De Sanctis MT., *et al.* Evaluation of treatment of diabetic microangiopathy with total triterpenic fraction of *Centella asiatica*: a clinical prospective randomized trial with a microcirculatory model. *Angiology.* 2001; 52: S49-54.
- Cesarone MR., Belcaro G., Rulo A., *et al.* Microcirculatory effects of total triterpenic fraction of *Centella asiatica* in chronic venous hypertension: measurement by laser Doppler, TcPO₂-CO₂, and leg volumetry. *Angiology.* 2001; 52: S45-8.
- Cesarone MR., Incandela L., De Sanctis MT., *et al.* Flight microangiopathy in medium- to long-distance flights: prevention of edema and microcirculation alterations with total triterpenic fraction of *Centella asiatica*. *Angiology.* 2001; 52: S33-7.
- Cesarone MR., Belcaro G., De Sanctis MT., *et al.* Effects of the total triterpenic fraction of *Centella asiatica* in venous hypertensive microangiopathy: a prospective, placebo-controlled, randomized trial. *Angiology.* 2001; 52: S15-18.
- Charmley LL., Trenholm HL., Prelusky DB., Rosenberg A. Economic losses and decontamination. *Natural Toxins.* 1995; 3: 199-203.
- Charoenpornsook K., Fitzpatrick JL., Smith JE. The effect of four mycotoxins on the mitogen stimulated proliferation of bovine peripheral blood mononuclear cells *in vitro*. *Mycopathologia.* 1998; 143: 105-11.
- Chen YJ., Dai YS., Chen BF., *et al.* The effect of tetrandrine and extracts of *Centella asiatica* on acute radiation dermatitis in rats. *Biol Pharm Bull.* 1999; 22: 703-6.
- Chen Y., Han T., Qin L., Rui Y., Zheng H. Effect of total triterpenes from *Centella asiatica* on the depression behavior and concentration of amino acid in forced swimming mice. *Zhong Yao Cai.* 2003; 26: 870-3.
- Chu FS., Li GY. Simultaneous occurrence of fumonisin B₁ and other mycotoxins in moldy corn collected from the People's Republic of China in regions with high incidences of esophageal cancer. *Appl Environ Microbiol.* 1994; 60: 847-852.
- Coldren CD., Hashim P., Ali JM., Oh SK., Sinskey AJ., Rha C. Gene expression changes in the human fibroblast induced by *Centella asiatica* triterpenoids. *Planta Med.* 2003; 69: 725-32.

- Costa JJ., Weller PF., Galli SJ. The cells of the allergic responses: mast cells, basophils, eosinophils. *J Am Med Assoc.* 1997; 278: 1815-22.
- Craig WJ. Health-promoting properties of common herbs. *Am J Clin Nutr.* 1999; 70: 491S-9S.
- De Sanctis MT., Belcaro G., Incandela L., et al. Treatment of edema and increased capillary filtration in venous hypertension with total triterpenic fraction of *Centella asiatica*: a clinical, prospective, placebo-controlled, randomized, dose-ranging trial. *Angiology.* 2001; 52: S55-9.
- DiDonato JA., Hayakawa M., Rothwarf DM., et al. A cytokine-responsive I κ B kinase that activates the transcription factor NF- κ B. *Nature.* 1997; 388: 548-54
- Dilkin P., Zorzete P., Mallmann CA., et al. Toxicological effects of chronic low doses of aflatoxin B₁ and fumonisin B₁-containing *Fusarium moniliforme* culture material in weaned piglets. *Food Chem Toxicol.* 2003; 41: 1345-53.
- Dutton MF. Fumonisin, mycotoxins of increasing importance: their nature and their effects. *Pharmacol Ther.* 1996; 70: 137-61.
- Eaton DL., Groopman JD. The toxicology of aflatoxins: human health, veterinary, and agricultural significance. Academic Press, San Diego, Calif, 1994.
- Eaton DL., Ramsdel HS. "Species and diet related differences in aflatoxin biotransformation" in Handbook of applied mycology, mycotoxins in ecological systems. Marcel Dekker, Inc., New York, N.Y., pp 157-182, 1992.
- Eaton DL., Gallagher EP. Mechanisms of aflatoxin carcinogenesis. *Annu Rev Pharmacol Toxicol.* 1994; 34: 135-72.
- Eldridge JH., Kimura S., Morisaki I. Immunoregulation in the rat: cellular and molecular requirements for B cell responses to types 1, 2, and T-dependent antigens. *J Immunol.* 1985; 134: 2236-46.
- Eriksen GS., Alexander J. Fusarium toxins in cereals – a risk assessment. Nordic Council of Ministers; TemaNord, 1998.
- Ernst E. Complementary AIDS therapies: the good, the bad and the ugly. *Int J STD AIDS.* 1997; 8: 281-5.
- Ernst E. Complementary therapies for asthma: what patient use. *J Asthma.* 1998; 35: 667-71.

- Ernst E., Cassileth BR. The prevalence of complementary/alternative medicine in cancer. *Sys Rev Cancer*. 1998; 83: 777-82.
- Farnsworth NR., Bunyapraphatsara N. Thai medicinal plants: recommended for primary health care system. Mahidol University, Thailand, 1992; pp. 111-4.
- Fearon DT., Lockley RM. The instructive role of innate immunity in the acquired immune response. *Science*. 1996; 272: 50-4.
- Galli SJ., Maurer M., Lantz CS. Mast cells as sentinels of innate immunity. *Curr Opin Immunol*. 1999; 11: 53-9.
- Gelderblom, WCA., Jaskiewicz K., Marasas WFO., Thiel PG.. Toxicity and carcinogenicity of the *Fusarium moniliforme* metabolite, fumonisin B₁ in rats. *Carcinogenesis*. 1991; 12:1247-51.
- Gelderblom WCA., Marasas WFO., Lebepe-Mazur S., Swanevelder S., Vessey CJ., de la M Hall P. Interaction of fumonisin B₁ and aflatoxin B₁ in a short-term carcinogenesis model in rat liver. *Toxicol* 2002; 171: 161-73
- Gelderblom, WCA., Smuts CM., Abel S., Snyman SD., Cawood ME., van der Westhuizen L., Swanevelder S.. Effect of fumonisin B₁ on protein and lipid synthesis in primary rat hepatocytes. *Food Chem Toxicol*. 1996; 34: 361-9.
- Gelderblom WCA., Snyman SD., Lebepe-Mazur S., van der Westhuizen L., Kriek NP.J, Marasas WFO. The cancer promoting potential of fumonisin B1 in rat liver using diethylnitrosamine as cancer initiator. *Cancer Lett*. 1996; 109: 101-8.
- Gotoh A., Sakaeda T, Kimura T, *et al*. Antiproliferative activity of *Rhinacanthus nasutus* (L.) KURZ extracts and the active moiety, Rhinacanthin C. *Biol Pharm Bull*. 2004; 27:1070-4.
- Goto TD., Wicklow T., Ito Y.. Aflatoxin and cyclopiazonic acid production by a sclerotium-producing *Aspergillus tamarii* strain. *Appl Environ Microbiol*. 1996; 62: 4036-8.
- Gregg EO, Denis M. The effect of macrophage activation state on antigen presenting capability as defined by helper T-cell function. *Int J Immunopharmacol* 1991;13:217-25.
- Guengerich FP., Johnson WW., Shimada T., Ueng YF., Yamazaki H., Langouet S. Activation and detoxification of aflatoxin B1. *Mutation Res*. 1998; 402: 121-8.

- Gupta YK., Veerendra Kumar MH., Srivastava AK. Effect of *Centella asiatica* on pentylenetetrazole-induced kindling, cognition and oxidative stress in rats. *Pharmacol Biochem Behav.* 2003;74: 579-85.
- Hall AJ., Wild CP. "Epidemiology of aflatoxin related diseases" in The toxicology of aflatoxins human health, veterinary, and agricultural significsnce. Academic Press Inc., California, pp 233-58, 1994.
- Hardy RR., Li VS., Allman D., Asano M., Gui M., Kayakawa K. B-cell commitment, development and selection. *Immunol Rev.* 2000; 175: 23-32.
- Harvey RB, Edrington TS, Kubena LF, Elissalde MH, Rottinghaus GE. Influence of aflstoxin and fumonisin B1-containing culture material on growing barrows. *Am J Vet Res.* 1995; 56: 1668-72.
- Harvey RB, Edrington TS, Kubena LF, Elissalde MH, Rottinghaus GE. Effects of dietary fumonisin B1-containing culture material, deoxynivalenol-contaminated wheat or their combination on growing barrows. *Am J Vet Res.* 1995; 57: 1790-94.
- Harrison LR., Colvin BM., Greene JT., Newman LE., Cole JR. Pulmonary edema and hydrothorax in swine produced by fumonisin B₁ a toxic metabolite of *Fusarium moniliforme*. *J Vet Diagn Investig.* 1990; 2: 217-21.
- Hayes AW. Mycotoxins: a review of biological effects and their role in human diseases. *Clin Toxicol.* 1980; 17: 45-83.
- Hayes RB., van Nienwenhuise JP., Raatgever JW., Ten Kate FJW. Aflatoxin exposure in the industrial setting: an epidemiological study of mortality. *Food Chem Toxicol.* 1984; 22:39-43.
- Hendrickse RG. Of sick turkeys, kwashiorkor, malaria, perinatal mortality, heroin addicts and food poisoning: research on the influence of aflatoxins on child health in the tropics. *Ann Trop Med Parasitol.* 1997; 91:787-93.
- Hsu IC., Metcalf RA., Sun T., Welsh JA., Wang NJ., Harris CC. Mutational hotspot in the p53 gene in human hepatocellular carcinomas. *Nature.* 1991; 350:377-8.
- Huston DP. The biology of the immune system. *J Am Med Assoc.* 1997; 278: 1804-22.

- Incandela L, Cesarone MR, Cacchio M, De Sanctis MT, Santavenere C, D'Auro MG, Bucci M, Belcaro G. Total triterpenic fraction of *Centella asiatica* in chronic venous insufficiency and in high-perfusion microangiopathy. *Angiology*. 2001;52: S9-13.
- Incandela L, Belcaro G, Nicolaides AN, Cesarone MR, De Sanctis MT, Corsi M, Bavera P, Ippolito E, Griffin M, Geroulakos G, Sabetai M, Ramaswami G, Veller M. Modification of the echogenicity of femoral plaques after treatment with total triterpenic fraction of *Centella asiatica*: a prospective, randomized, placebo-controlled trial. *Angiology*. 2001;52: S69-73.
- Incandela L, Belcaro G, De Sanctis MT, Cesarone MR, Griffin M, Ippolito E, Bucci M, Cacchio M. Total triterpenic fraction of *Centella asiatica* in the treatment of venous hypertension: a clinical, prospective, randomized trial using a combined microcirculatory model. *Angiology*. 2001;52 : S61-7.
- Incandela L, Belcaro G, Cesarone MR, De Sanctis MT, Nargi E, Patricelli P, Bucci M. Treatment of diabetic microangiopathy and edema with total triterpenic fraction of *Centella asiatica*: a prospective, placebo-controlled randomized study. *Angiology*. 2001; 52: S27-31.
- Incandela L, Belcaro G, Nicolaides AN, Cesarone MR, De Sanctis MT, Corsi M, Bavera P, Ippolito E, Griffin M, Geroulakos G, Sabetai M, Ramaswami G, Veller M. Modification of the echogenicity of femoral plaques after treatment with total triterpenic fraction of *Centella asiatica*: a prospective, randomized, placebo-controlled trial. *Angiology*. 200;52: S69-73.
- Israelsen LD. Phytochemicals: the greening of modern medicine. *J Altern Comp Med*. 1995; 1: 245-8.
- Iverson F, Armstrong C, Nea E, Truelove J, Fernie S, Scott PM, Stapley R, Hayward S, Gunner S. Chronic feeding study of deoxynivalenol in B6C3F1 male and female mice. *Terato Carcino Muta*. 1995; 15: 283-306.
- Jagtap AG, Shirke SS, Phadke AS. Effect of polyherbal formulation on experimental models of inflammatory bowel diseases. *J Ethnopharmacol*. 2004; 90: 195-204.
- Janeway Jr., Travers CA. Immunobiology: The immune system in health and disease. Blackwell Scientific Publications, Oxford, 1994.

- Jaskiewicz K., Marasas WFO., Thiel PG., Horak RM., Vleggaar R., Kriek NPJ. Fumonisin- novel mycotoxins with cancer-promoting activity produced by *Fusarium moniliforme*. *Appl Environ Microbiol.* 1988; 54:1806-11.
- Jayashree G, Kurup Muraleedhara G, Sudarslal S, Jacob VB. Anti-oxidant activity of *Centella asiatica* on lymphoma-bearing mice. *Fitoterapia.* 2003; 74: 431-4.
- Jayathirtha MG, Mishra SH. Preliminary immunomodulatory activities of methanol extracts of *Eclipta alba* and *Centella asiatica*. *Phytomedicine.* 2004; 11: 361-5.
- Jayathirtha MG, Mishra SH. Preliminary immunomodulatory activities of methanol extracts of *Eclipta alba* and *Centella asiatica*. *Phytomedicine.* 2004; 11: 361-5.
- Jones FA. Herbs-useful plants. Their role in history and today. *Eur J Gastroenterol Hepatol.* 1996; 8: 1227-31.
- Kernan MR, Sendl A, Chen JL, Jolad SD, Blanc P, Murphy JT, Stoddart CA, Nanakorn W, Balick MJ, Rozhon EJ. Two new lignans with activity against influenza virus from the medicinal plant *Rhinacanthus nasutus*. *J Nat Prod.* 1997;60: 635-7.
- Kim JW, Joe CO and Choi EJ. Role of receptor-interacting protein in tumor necrosis factor- α -dependent MEKK1 activation. *J Biol Chem.* 2001; 276: 27064-70.
- Klich MA., Mullaney EJ., Daly CB., Cary JW. Molecular and physiological aspects of aflatoxin and sterigmatocystin biosynthesis by *A. tamarii* and *A. ochraceoroseus*. *Appl Microbiol Biotechnol.* 2000; 53: 605-9.
- Klimp AH., de Vries EG., Scherphof GL., Daemen T. *Crit Rev Oncol Hematol.* 2002; 44: 143-161.
- Kodama O, Ichikawa H, Akatsuka T, Santisopasri V, Kato A, Hayashi Y. Isolation and identification of an antifungal naphthopyran derivative from *Rhinacanthus nasutus*. *J Nat Prod.* 1993;56: 292-4.
- Kongkathip N, Luangkamin S, Kongkathip B, Sangma C, Grigg R, Kongsaree P, Prabpai S, Pradidphol N, Piyaviriyagul S, Siripong P. Synthesis of novel rhinacanthins and related anticancer naphthoquinone esters. *J Med Chem.* 2004;47: 4427-38.
- Kuby JE. "Overview of the immune system" in: Textbook of Immunology, WH. Freeman and Company; New York, pp 3-24, 1997.

- Lambert LA, Hines FA, Eppley RM. Lack of initiation and promotion potential of deoxynivalenol contamination in barley and oats. *Food Chem Toxicol.* 1995; 33: 217-222.
- Lee MK, Kim SR, Sung SH, Lim D, Kim H, Choi H, Park HK, Je S, Ki YC. Asiatic acid derivatives protect cultured cortical neurons from glutamate-induced excitotoxicity. *Res Commun Mol Pathol Pharmacol.* 2000; 108: 75-86.
- Lim BO, Yamada K, Nonaka M, Kuramoto Y, Hung P and Sugano M. Dietary fibers modulate induced of intestinal immune function in rats. *J Nutr.* 1997; 127: 663-7.
- Li B and Guo H. Study on the combined toxicity of aflatoxin B₁ and deoxynivalenol. *Wei Sheng Yan Jiu.* 2000; 29: 393-5.
- Li FQ., Yoshizawa T., Kawamura S., Luo SY., Li YW. Aflatoxins and fumonisins in corn from the high-incidence area for human hepatocellular carcinoma in Guangxi, China. *J Agric Food Chem.* 2001; 49: 4122-6.
- Lodish H., Baltimore D., Berk A. *Molecular Cell Biology*, 3rd ed. Scientific American Books Inc., 1995.
- Lu L, Ying K, Wei S, Liu Y, Lin H, Mao Y. Dermal fibroblast-associated gene induction by asiaticoside shown in vitro by DNA microarray analysis. *Br J Dermatol.* 2004; 151: 571-8.
- Luzzati AL, Giordani L, Giacomini E. Interleukin-12 up-regulates the induction of an antigen-specific antibody response in cultures of human lymphocytes. *Eur J Immunol.* 1997; 27: 2696-701.
- MacKey D., and Miller AL. Nutritional support for wound healing. *Altern Med Rev.* 2003; 8: 359-77.
- Male D., Roitt I. "Introduction to the immune system" in: *Textbook of Immunology*. Mosby International Ltd., London, pp1-11, 1998.
- Mannel DN., Echtenacher B. TNF in the inflammatory response. *Chem Immunol.* 2000; 74: 141-61.
- Maquart FX, Bellon G, Gillery P, Wegrowski Y, Borel JP. Stimulation of collagen synthesis in fibroblast cultures by a triterpene extracted from *Centella asiatica*. *Connect Tissue Res.* 1990; 24:107-20.

- Maquart FX, Chastang F, Simeon A, Birembaut P, Gillery P, Wegrowski Y. Triterpenes from *Centella asiatica* stimulate extracellular matrix accumulation in rat experimental wounds. *Eur J Dermatol*. 1999; 9: 289-96.
- Marasas WFO., Kellerman TS., Gelderblom WC., Coetzer JA., Thiel PG., van der Lugt JJ. Leukoencephalomalacia in a horse induced by fumonisin B₁ isolated from *Fusarium moniliforme*. *Onderstepoort J Vet Res*. 1988; 55: 197-203.
- Marasas WFO. Fumonisin: their implications for human and animal health. *Nat Toxins*. 1995; 3:193-8.
- Marasas WFO., Kellerman TS., Gelderblom WCA., Coetzer JAW., Thiel PG., Van Der Lugt JJ. Leukoencephalomalacia in horse induced by fumonisin B₁ isolated from *Fusarium moniliforme*. *Onderstepoort J Vet Res*. 1998; 55:197-203.
- Mercurio F., Zhu H., Murray BW., et al. IKK-1 and IKK-2: cytokineactivated IkappaB kinases essential for NF- kappaB activation. *Science* 1997; 278: 860-6.
- Merrill AH., Wang E., Vales TR., et al. Fumonisin toxicity and sphingolipid biosynthesis. *Adv Exp Med Biol*. 1996; 392: 297-306.
- Merrill AH., Sullards Jr MC., Wang E., Voss KA., Riley RT. Sphingolipid metabolism: roles in signal transduction and disruption by fumonisins. *Environ Health Perspect*. 2001; 109:283-9.
- Miller JD. Fungi and mycooxins in grain: implications for stored product research. *J Stor Prod Res*. 1995; 31: 1-16.
- Miller JD., ApSimon JW., Blackwell BA., Greenhalgh R., Taylor A. "Deoxynivalenol: a 25 year perspective on a trichothecene of agricultural importance" in, *Fusarium*, Paul E. Nelson Memorial Symposium. APS Press, St. Paul, Minn. pp 310-319, 2001.
- Montecchio GP, Samaden A, Carbone S, Vigotti M, Siragusa S, Piovella F. Centella Asiatica Triterpenic Fraction (CATTF) reduces the number of circulating endothelial cells in subjects with post phlebotic syndrome. *Haematologica*. 199; 76:256-9.
- Mosimann T. Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assay. *J Immunol Methods*. 1983; 65: 55-63.
- Nathan C. Nitric oxide as a secretory product of mammalian cells. *FASEB*. 1992; 6: 3051-64.

- Newberne PM., Butler WH. Acute and chronic effect of aflatoxin B₁ on the liver of domestic and laboratory animals: a review. *Cancer Res.* 1969; 29:236–50.
- Pal B. Use of alternative medicine by Sjogren's syndrome patients. *Clin Exp Rheu.* 1998; 16: 763.
- Parnham MJ. Benefit-risk assessment of the squeezed sap of the purple coneflower (*Echinacea purpurea*) for long-term oral immunostimulation. *Phytomedicine.* 1996; 3: 95-102.
- Pearson TW, Roelants GE, Lundin LB, Mayer-Withey KS. The bovine lymphoid system: binding and stimulation of peripheral blood lymphocytes by lectins. *J Immunol Methods.* 1979; 26: 271-82.
- Peers FG., Linsell CA. Dietary aflatoxins and human liver cancer—a population study based in Kenya. *Br J Cancer* 1973; 27: 473-84.
- Peraica M., Radic B., Lucic A., Pavlovic M. Toxic effects of mycotoxins in humans. *Bull. W.H.O.* 1999; 77: 754-66.
- Peterson SW., Ito Y., Horn BW., Goto T. *Aspergillus bombycis*, a new aflatoxigenic species and genetic variation in its sibling species, *A. nomius*. *Mycologia.* 2001; 93: 689–703.
- Pitt JI. Toxigenic fungi and mycotoxins. *Br Med Bull.* 2000; 56: 184-92.
- Pong RS., Wogan GN. Inhibition by aflatoxin B₁ of rat liver xoxazalaminase hydroxylase induction. *Biochem Pharmacol.* 1970; 19: 2808-12.
- Rheeder JP., Marasas WF., Thiel PG. Sydenham EW., Shephard GS., van Schalkwyk DJ. *Fusarium moniliforme* and fumonisins in corn in relation to human esophageal cancer in Transkei. *Phytopathol.* 1992; 82: 353-57.
- Pozzi CR., Correa B., Xavier JG., Direito GM., Orsi RB., Matarazzo SV. Effects of prolonged oral administration of fumonisin B₁ and aflatoxin B₁ in rats. *Mycopathologia.* 2000; 151:21-7.
- Rojanapo W, Tepsuwan A, Siripong P. Mutagenicity and antimutagenicity of Thai medicinal plants. *Basic Life Sci.* 1990; 52: 447-52.
- Romagnani S. Lymphokine production by human T cells in disease states. *Annu Rev Immunol.* 1994; 12: 227-57.
- Rotter BA, Prelusky DB, Pestka JJ. Toxicology of deoxynivalenol (Vomitoxin). *J Toxicol Environ Health.* 1996; 48: 1-34.
- Robb RJ. Interleukin-2: the molecule and its function. *Immunology Today.* 1984; 5: 203-9.

- Rouse BT, Babiuk LA. Host response to infectious bovine rhinotracheitis virus. III: Isolation and immunologic activities of bovine lymphocytes. *J Immunol.* 1974; 113: 1391-8.
- Sabbioni, G., Sepai O. "Determination of human exposure to aflatoxins" in *Mycotoxins in agriculture and food safety.* Marcel Dekker, Inc., New York, N.Y. pp 183-226, 1994.
- Sampson JH, Raman A, Karlsen G, Navsaria H, Leigh IM. In vitro keratinocyte antiproliferant effect of *Centella asiatica* extract and triterpenoid saponins. *Phytomedicine.* 2001;8: 230-5.
- Schulz V., Hansel R., Tyler VE. "Agents that increase resistance to diseases." In *Rational Phytotherapy.* New York: Springer-Verlag, pp269-85, 1998.
- Scimone A., and Scimone A. US sees the green in herbal supplements. *Chemical Market Reporter.* 1998; 254: FR3-FR4.
- Sendl A, Chen JL, Jolad SD, Stoddart C, Rozhon E, Kernan M, Nanakorn W, Balick M. Two new naphthoquinones with antiviral activity from *Rhinacanthus nasutus.* *J Nat Prod.* 1996; 59: 808-11.
- Seo WG, Pae HO, Oh GS, Chai KY, Kwon TO, Yun YG, Kim NY, Chung HT. Inhibitory effects of methanol extract of *Cyperus rotundus* rhizomes on nitric oxide and superoxide productions by murine macrophage cell line, RAW 264.7 cells. *J Ethnopharmacol.* 2001; 76: 59-64.
- Shank RC., Bhamarapravati N., Gordon JE., Wogan GN. Dietary aflatoxins and human liver cancer. IV. Incidence of primary liver cancer in two municipal populations in Thailand. *Food Cosmet Toxicol.* 1972; 10: 171-9.
- Sharma J, Sharma R. Radioprotection of Swiss albino mouse by *Centella asiatica* extract. *Phytother Res.* 2002; 16: 785-6.
- Shifrin VI., Anderson P. Trichothecene mycotoxins trigger a ribotoxic stress response that activates c-jun N-terminal kinase and p38 mitogen-activated protein kinase and induces apoptosis. *J Biol Chem.* 1999; 274: 13985-92.
- Shobi V, Goel HC. Protection against radiation-induced conditioned taste aversion by *Centella asiatica.* *Physiol Behav.* 2001; 73: 19-23.
- Shukla A, Rasik AM, Dhawan BN. Asiaticoside-induced elevation of antioxidant levels in healing wounds. *Phytother Res.* 1999; 13: 50-4.

- Shukla A, Rasik AM, Jain GK, Shankar R, Kulshrestha DK, Dhawan BN. *In vitro* and *in vivo* wound healing activity of asiaticoside isolated from *Centella asiatica*. *J Ethnopharmacol*. 1999; 65: 1-11.
- Smith RT. Cancer and the immune system. *Pediatric Clin North Amer*. 1994; 41: 841-50.
- Smith JE., Moss MO. "Structure and formation of mycotoxins" in Mycotoxins formation, analysis and significance. John Wiley and sons Ltd., Great Britain, pp. 31-49, 1985.
- Squire RA. Ranking animal carcinogens: a proposed regulatory approach. *Science*. 1981; 214:877-80.
- Suguna L, Sivakumar P, Chandrakasan G. Effects of *Centella asiatica* extract on dermal wound healing in rats. *Indian J Exp Biol*. 1996; 34:1208-11.
- Sydenham EW., Shephard GS., Thiel PG., Marasas WFO., Stockenstrom S. Fumonsin contamination of commercial corn-based human foodstuffs. *J Agric Food Chem*. 1991; 39: 2014-8.
- Tenni R, Zanaboni G, De Agostini MP, Rossi A, Bendotti C, Cetta G. Effect of the triterpenoid fraction of *Centella asiatica* on macromolecules of the connective matrix in human skin fibroblast cultures. *Ital J Biochem*. 1988; 37: 69-77.
- Theumer MG, Lopez AG, Masih DT, Chulze SN and Rubinstein HR. Immunobiological effects of AFB₁ and AFB₁-FB₁ mixture in experimental subchronic mycotoxicoses in rats. *Toxicol*. 2003; 186: 159-70.
- Thrope R. "Interleukin-2" in Cytokines. Academic Press Inc., pp 19-33, 1998.
- Turner M. "Antibodies and their receptors" in Textbook of Immunology, Mosby International Ltd., London, pp 71-80, 1998.
- Ueno V., Umemori K., Niimi E., et al. Induction of apoptosis by T-2 toxin and other natural toxins in HL-60 human promyelocytic leukemia cells. *Natural Toxins*. 1995; 3: 129-37.
- Van Rensburg SJ., Cook-Mazaffari P., van Schalkwyk DJ., van der Watt JJ., Vincent TJ., Purchase IF. Heptatocellular carcinoma and dietary aflatoxin in Mozambique and Transkei. *Br J Cancer*. 1985; 51:713-20.
- Visconti A., Minervini F., Lucivero G., Gambatesa V. Cytotoxic and immunotoxic effects of Fusarium mycotoxins using a rapid colorimetric bioassay. *Mycopathologia*. 1991; 113: 181-6.

- Veerendra Kumar MH, Gupta YK. Effect of *Centella asiatica* on cognition and oxidative stress in an intracerebroventricular streptozotocin model of Alzheimer's disease in rats. *Clin Exp Pharmacol Physiol*. 2003; 30: 336-42.
- Veerendra Kumar MH, Gupta YK. Effect of different extracts of *Centella asiatica* on cognition and markers of oxidative stress in rats. *J Ethnopharmacol*. 2002; 79: 253-60.
- Vos Q, Snapper CM, Mond JJ. T(h)1 versus T(h)2 cytokine profile determines the modulation of in vitro T-cell-independent type 2 responses by IL-4. *Int Immunol*. 2000; 12:1337-45.
- Wang XS, Dong Q, Zuo JP, Fang JN. Structure and potential immunological activity of a pectin from *Centella asiatica* (L.) Urban. *Carbohydr Res*. 2003; 338: 2393-402.
- Wang E., Norred WP., Bacon CW., Riley RT., Merrill, Jr AH. Inhibition of sphingolipid biosynthesis by fumonsins. *J Biol Chem*. 1991; 266:14486-90.
- Whiteside TL and Herberman RB. Role of human natural killer cells in health and disease. *Clin Diag Lab Immunol*. 1994; 1: 125-33.
- Widgerow AD, Chait LA, Stals R, Stals PJ. New innovations in scar management. *Aesthetic Plast Surg*. 2000; 24: 227-34.
- Wajan H., Pfizenmaier K and Scheurich P. Tumor necrosis factor signaling. *Cell Death and Differentiation*. 2003; 10: 45-65.
- Wolf H. "Can orally applied immunomodulators improve local defense?" in Immunotherapy of Infections. New York: Marcel Dekker, pp 351-5, 1994:.
- Wu TS., Hsu HC., Wu PL., Teng CM., Wu YC. Rhinacanthin-Q, a naphthoquinone from *Rhinacanthus nasutus* and its biological activity. *Phytochemistry*. 1998; 49: 2001-3.
- Yang J., Lin Y., Guo Z., et al. The essential role of MEKK3 in TNF induced NF-kappaB activation. *Nat Immunol*. 2001; 2: 620-4.
- Yoosook C., Bunyaphatsara N., Boonyakiat Y., Kantasuk C. Anti-herpes simplex virus activities of crude water extracts of Thai medicinal Plants. *Phytomedicine*. 2000; 6: 411-9.
- Zamoyska R. CD4 and CD8: modulators of T-cells recognition of antigen and of immune response. *Curr Opin Immunol*. 1998; 10: 82-7.