

BIBLIOGRAPHY

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A Kashiwagi, Y Harano, M Suzuki, H Kojima, M Harada, Y Nishio and Y Shigeta, New alpha 2-adrenergic blocker (DG-5128) improves insulin secretion and in vivo glucose disposal in NIDDM patients, *Diabetes*, 35 (10) 1085-1089, 1986

Achrekar S, Kaklij GS, Pote MS & Kelkar SM Hypoglycemic activity of *Eugenia jambolana* and *Ficus bengalensis*: mechanism of action. *In vivo*. 1991; 5(2):143-147.

Affarah HB, Hall WD, Heymsfield SB, Kutner M, Wells JO, Tuttle EP. High-carbohydrate diet: antinatriuretic and blood pressure response in normal men. *Am J Clin Nutr*. 1986; 44:341-348

Agarwal R. Proinflammatory effects of oxidative stress in chronic kidney disease: role of additional angiotensin II blockade. *Am J Physiol Renal Physiol* 2003; 284: F863-9.

Aguwa CN, Mittal GC. Abortifacient effects of the roots of *Momordica angustisepala*. *Journal of Ethnopharmacology* 1983; 169-173.

Ahmad, F, Khan MM, Rastogi AK, Chaubey M, Kidwai JR. Effect of (-) epicatechin on cAMP content, insulin release and conversion of proinsulin to insulin in immature and mature rat islets in vitro. *Ind. J. Exp. Biol.* 1991; 29, 516-520.

Ahmed O. Abdel-Zaher, Safa Y. Salim, Mahmoud H. Assaf and Randa H. Abdel-Hady Antidiabetic activity and toxicity of *Zizyphus spina-christi* leaves *Journal of Ethnopharmacology*, 2005; 101, (1-3), : 129-138

AK Khanna, F Riziv and R Chander. Lipid lowering activity of *Phyllanthus niruri* in hyperlipidemic rats. *Journal of Ethnopharmacology* 2002; 82:19-22.

AK Khanna, R Chander, Chandana Singh, AK Srivastava and N K Kapoor. Hypolipidemic activity of *Achyranthus aspera* Linn in normal & Triton induced hyperlipidemic rats. *Ind J Exp Biol*, 1992 Feb; 128-30.

AL Purnima and V Mathuram. Hypocholesteremic and antihypercholesterolemic activity of extracts of *Trichilia connaroids* on rats. *Indian journal of Pharmaceutical sciences*; 2003 Sep-Oct: 537-9.

Alberti KGM, Zimmet PZ, For the WHO Consultation: Definition, diagnosis and classification of diabetes mellitus and its complications. Part 1: Diagnosis and classification of diabetes mellitus, provisional report of a WHO consultation *Diabet Med* 1998, 15:539-553

Al-Hamood MH, Elbetieha A, Alkofahi A, Bataineh H. Reproductive toxicity potentials of *Salvia fruticosa* (Labiateae) in rats. *Journal of Ethnopharmacology* 1998 May;61(1):67-74

Ali A, Sirivastava V. Characterization of phytoconstituents of *Momordica dioica*. Indian J. Pharmacol. 1998; 60(5): 287-289.

Aliciguzel Y, Ozen I, Aslan M, Karayalcin U. Activities of xanthine oxidoreductase and antioxidant enzymes in different tissues of diabetic rats. *J Lab Clin Med*. 2003; 142:172–177.

Al-Said MS, Al-Khamis KI, Islam MW, Parmar NS, Tariq M, Ageel AM. Post-coital antifertility activity of the seeds of *Coriandrum sativum* in rats. Journal of Ethnopharmacology 1987 Nov; 21(2):165-173.

Amiri F, Shaw S, Wang X, Tang J, Waller JL, Eaton DC, Marrero MB. Angiotensin II activation of the JAK/STAT pathway in mesangial cells is altered by high glucose. *Kidney Int*. 2002; 61:1605–161.

Amundsen AL, Ose L, Nenseter MS, Ntanios FY. Plant sterol ester-enriched spread lowers plasma total and LDL cholesterol in children with familial hypercholesterolemia. *Am J Clin Nutr*. 2002; 76:338-344.

Ananyeva NM, Tjurmin AV, Berliner JA, Chisolm GM, Liau G, Winkles JA, et al. Oxidized LDL mediates the release of fibroblast growth factor-1, *Arterioscler Thromb Vasc Biol* 1997; 17: 445–453.

Anderson JW, Gilliland SE. Effect of fermented milk (yogurt) containing *Lactobacillus acidophilus* L1 on serum cholesterol in hypercholesterolemic humans. *J Am Coll Nutr*. 1999; 18:43-50.

Anderson JW, Johnstone BM, Cook-Newell ME. Meta-analysis of the effects of soy protein intake on serum lipids. *N Engl J Med*. 1995; 333:276-281.

Andreoli SP. Mechanism of oxidant mediated cell injury. *Pediatr Nephrol* 1995; 9: C27.

Arai, K., Iizuka, S., Tada, Y., Oikawa, K., and Taniguchi,N. Increase in the glucosylated form of erythrocyte Cu-Zn-superoxide dismutase in diabetes and close association of the nonenzymatic glucosylation with the enzyme activity. *Biochimica et Biophysica Acta* 1987; 924, 292-296.

Arjmandi BH, Khan DA, Juma S, Whole flaxseed consumption lowers serum LDL-cholesterol and lipoprotein (a) concentrations in postmenopausal women. *Nutr Res*. 1998; 18:1203-1214.

Armitage J., Bowman L. Cardiovascular outcomes among participants with diabetes in the recent large statin trials. *Curr. Opin. Lipidol* 2004; 15 (4), 439-446

Arun Sam Lal, T Kumar, P Balakrishna murthy and K Sadasivan Pillai. Hypolipidemic effect of *Coriandrum sativum* L.in triton induced hyperlipidemic rats. *Journal of Experimental Biology* 2004; 42: 909-12.

Asayama, K., Uchida, N., Nakane, T., Hayashibe, H., Dobashi, K., Amemiya, S., Kato, K., and Nakazawa, S. Antioxidants in the serum of children with insulin-independent diabetes mellitus. *Free Radical Biology and Medicine* 1993; 15: 597-602.

Asgary S, Naderi GH, Sarrafzadegan N, Antihypertensive and antihyperlipidemic effects of Achillea wilhelmsii. *Drugs Exp Clin Res* 2000; 26:89-93.

Asgary S, Naderi GH, Sarrafzadegan N, Antihypertensive and antihyperlipidemic effects of *Achillea wilhelmsii*. *Drugs Exp Clin Res*. 2000; 26:89-93.

Atchley DH, Lopes-Virella MF, Zheng D, Kenny D, Virella G. Oxidized LDL-anti-oxidized LDL immune complexes and diabetic nephropathy. *Diabetologia* 2002; 45: 1562-71.

Augusti, K.T., Sheela, C.G., Antiperoxide effect of S-allyl cysteine sulfoxide, an insulin secretagogue, in diabetic rats. *Experientia* 1996; 52, 115-120.

Badger, DA., Sauer JM., Hoglen NC. Jolley CS, and. Sipes IG.. The role of inflammatory cells and cytochrome P450 in the potentiation of CCl₄-induced liver injury by a single dose of retinol. *Toxicol. Appl. Pharmacol* 1996; 141: 507-519.

Badmi S, Aneesh R, Sankar S, Sathish kumar MN, Suresh B, Rajan S. , Antifertility activity of *Derris brevipes* variety coriacea. *J. Ethnopharmacol*. 2003; 84: 99-104.

Bakker SJ, IJzerman RG, Teerlink T, Westerhoff HV, Gans RO, Heine RJ: Cytosolic triglycerides and oxidative stress in central obesity: the missing link between excessive atherosclerosis, endothelial dysfunction, and beta cell failure? *Atherosclerosis* 2000, 148:17-21

Bangham AD & Horne RW Action of saponins on biological cell membranes. *Nature* 1962; 196, 952-953.

Banskota NK, Tau BR, Zellner K. Characterization of induction of protooncogene c-myc and cellular growth in human smooth muscle cells by insulin and IGF-I. *Diabetes*. 1989; 38:123-129

Barnes, J. Phytotherapy: consumer and pharmacist perspectives. *Herbal medicine – a concise overview for professionals*. Edited by Ernst E. Oxford: Butterworth Heinemann, 2000. pp. 19-33.

Basch, E., Gabardi, S., Ulbricht, C., Bitter melon (*Momordica charantia*): a review of efficacy and safety. *American Journal of Health and Systemic Pharmacology* 2003; 65, 356-359.

Baskaran, K. Kizar Ahamath B, Radha Shanmugasundaram K, Shanmugasundaram ER . Anti-diabetic effect of a leaf extracts from *Gymnema sylvestre* in non-insulin-dependent diabetes mellitus patients. *J. Ethnopharmacology* 1990; 30, 295-300.

Batta SK, Santhakumari G. The antifertility effect of *ocimum sanctum* and *hibiscus rosa sinensis*. *Indian Journal of Medical Research*. 1971;59(5):777-781

Baynes, J.W. (1991) Role of oxidative stress in development of complications in diabetes. *Diabetes* 40, 405-412.

Bayraktutan U, Draper N, Lang D, Shah AM. Expression of functional neutrophil-type NADPH oxidase in cultured rat coronary microvascular endothelial cells. *Cardiovasc Res.* 1998; 38:256-262.

Beckman JA, Goldfine AB, Gordon MB, Garrett LA, Keaney JF Jr, Creager MA. Oral antioxidant therapy improves endothelial function in Type 1 but not Type 2 diabetes mellitus. *Am J Physiol.* 2003; 285:H2392-2398.

Beck-Nielsen H, Pedersen, Lindskov H. Impaired cellular insulin binding and insulin sensitivity induced by high-fructose feeding in normal subjects. *Am. J. Clin. Nut.* 1980; 33: 273-8.

Bellosta S, Ferri N, Bernini F, Paoletti R, Corsini A. Non-lipid-related effects of statins. *Ann Med* 2000; 32: 164-176.

Benie T, El-Izzi A, Tahiri C, Duval J & Thieulant MLTI Combretodendron africanum bark extract as an Antifertility agent. I: Estrogenic effects in vivo and LH release by cultured gonadotrope cells. *Journal of Ethnopharmacology* 1990; 29, 13-23.

Benie T, El-Izzi A, Tahiri C, Duval J & Thieulant MLTI (1990) Combretodendron africanum bark extract as an antifertility agent. I: Estrogenic effects in vivo and LH release by cultured gonadotrope cells. *Journal of Ethnopharmacology* 29, 13-23.

Bennett MK, Lopez JM, Sanchez HB, Osborne TF: Sterol regulation of fatty acid synthase promoter. Coordinate feedback regulation of two major lipid pathways. *J Biol Chem* 1995, 270:25578-25583.

Berry C, Hamilton CA, Brosnan MJ, et al. Investigation into the sources of superoxide in human blood vessels: angiotensin II increases superoxide production in human internal mammary arteries. *Circulation* 2000; 101:2206-2212.

Bhatia S, Shukla R, Venkata Madhu S, Kaur Gambhir J, Madhava Prabhu K. Antioxidant status, lipid peroxidation and nitric oxide end products in patients of type 2 diabetes mellitus with nephropathy. *Clin Biochem* 2003; 36: 557-62

Billstrom A Hietala S.O., Lithner F, Merikanto J., Wirell M., Wirell S., Nephrotoxicity of contrast media in patients with diabetes mellitus: a comparative urographic and angiographic study with iohexol and metrizoate, *Acta radiologica* 1989, 30, (5); 509-515.

Blakytny, R., and Harding, J.J. Glycation (nonenzymic glycosylation) inactivates glutathione reductase. *Biochemical Journal* 1992; 288, 303-307.

Bodeker GC. Editorial. *J Altern Complement Med.* 1996;3:323-326.

Bodhankar SL, Garg SK, Matur VS. Antifertility screening of plants. Part IX. Effect of five indigenous plants on early pregnancy in female albino rats. Indian Journal Of Medical Research 1974;62(6): 831-837

Boizard M, Le Liepvre X, Lemarchand P, Foufelle F, Ferre P, Dugail I: Obesity-related overexpression of fatty-acid synthase gene in adipose tissue involves sterol regulatory element-binding protein transcription factors. *J Biol Chem* 1998, 273:29164-29171.

Boullier A, Bird DA, Chang MK, Dennis EA, Friedman P, Gillotre-Taylor K, Horkko S, Palinski W, Quehenberger O, Shaw P, et al. Scavenger receptors, oxidized LDL, and atherosclerosis. *Ann N Y Acad Sci*. 2001; 947:214–222.

Bown TM, Mueller SB, Mazur MJ, Uhlandrof PD, Brown EQ, Kief KA. The relationship between the degree of dietary induced hypercholesterolemia in the rabbit and atherosclerotic lesion formation. *Atherosclerosis* 1993; 102:9-22.

Brands MW, Bell TD, Gibson B. Nitric oxide may prevent hypertension early in diabetes by counteracting renal actions of superoxide. *Hypertension*. 2004; 43:57–63.

Brevoort P. The booming US botanical market. A new overview. *HerbalGram*. 1998; 44:33–51.

Brown MS, Goldstein JL: The SREBP pathway: regulation of cholesterol metabolism by proteolysis of a membrane-bound transcription factor. *Cell* 1997, 89:331-340.

Brownlee M. Biochemistry and molecular cell biology of diabetic complications. *Nature*. 2001; 414:813–820.

Budisavljevic MN, Hodge L, Barber K, Fulmer JR, Durazo-Arvizu RA, Self SE; Kuhlmann M, Raymond JR, Greene EL. Oxidative stress in the pathogenesis of experimental mesangial proliferative glomerulonephritis. *Am J Physiol Renal Physiol* 2003; 285: F1138-48.

C. Giorda and M. Appendino, Effects of doxazosin, a selective α 1-inhibitor, on plasma insulin and blood glucose response to a glucose tolerance test in essential hypertension. *Metabolism* 42 (1993), pp. 1440–1442.

C. Giorda, M. Appendino, M.G. Mason ., Alpha 1-blocker doxazosin improves peripheral insulin sensitivity in diabetic hypertensive patients. *Metabolism* 44 (1995), pp. 673–676

Cai H, Harrison DG. Endothelial dysfunction in cardiovascular diseases: role of oxidant stress. *Circ Res* 2000; 87:840-844.

Cameron, N.E., and Cotter, M.A. Potential therapeutic approaches to the treatment or prevention of diabetic neuropathy: evidence from experimental studies. *Diabetic Medicine* 1993; 10, 593-605.

Cameron, N.E., Cotter, M.A., and Hohman, T.C. Interactions between essential fatty acid, prostanoid, polyol pathway and nitric oxide mechanisms in the neurovascular deficit of diabetic rats. *Diabetologia* 1996; 39, 172-182.

Carroll NV, Longley RW, Roe JH. The determination of glycogen in liver and muscle by use of Anthrone reagent. *J Biol Chem* 1952; 195:367-73.

Catena C, Giacchetti G, Novello M, Colussi G, Cavarape A, Sechi LA: Cellular mechanisms of insulin resistance in rats with fructose-induced hypertension. *Am J Hypertens* 2003, 16:973-978.

Ceriello, A., Bortolotti, N., Falletti, E., Taboga, C., Tonutti,L., Crescentini, A., Motz, E., Lizzio, S., Russo, A.,and Bartoli, E. Total radical-trapping antioxidant parameter in NIDDM patients. *Diabetes Care* 1997; 20, 194-197.

Ceriello, A., Giugliano, D., Quatraro, A., Dello-Russo, P.,and Lefebvre, P.J. Metabolic control may influence the increased superoxide generation in diabetic serum. *Diabetic Medicine* 1991; 8, 540-542.

CG Sheela and KT Augusti. Antiperoxide effects of S-allyl cysteine sulphoxide isolated from Allium sativum Linn and gugulipid in cholesterol diet fed rats. *Journal of Experimental Biology* 1995 May.33: 337-41.

Chakravarthy, B.K., Saroj Gupta, Gambhir SS, Gode KD () Pancreatic beta-cell regeneration- a novel antidiabetic mechanism of *Pterocarpus marsupium*, ROXB. Ind. J. Pharmacol., 1980; 12(2), 123-127.

Chattopadhyay, R.R. Hypoglycemic effect of Ocimum sanctum leaf extract in normal and streptozotocin diabetic rats. Indian J. of Exp. Biol., Vol. 1993; 31,891-893.

Chen JC, Xu MX, Chen LD, Chen YN & Chiu TH Effectof Panax notoginseng saponins on sperm motility and progression in vitro. *Phytomedicine* 1998; 5, 289-292.

Cherif S, Rahal N, Haouala M, et al. A clinical trial of a titrated olea extract in the treatment of essential arterial hypertension. *J Pharm Belg* 1996; 51:69-71

Choi SB and Park S. A steroidal glycoside from *Polygonatum odoratum* (Mill. Druce) improves insulin resistance but does not alter insulin secretion in 90%-pancreatectomizedrats. *Biosci Biotechnol Biochem*, 2002 Oct; 66(10): 2036-43.

Chou SC, Ramanathan S, Matsui A, Rojers J & Cutting WC (1971) Isolation of saponins with antifertility activity from *Gleditschia horrida*. *Indian Journal of Experimental Biology* 9,503-504.

Cinar M, Ulker S, Alper G, Evinc A. Effect of dietary vitamin E supplementation on vascular reactivity of thoracic aorta in streptozotocin-diabetic rats. *Pharmacology*. 2001; 62:56-64.

Circosta C, Sanogo R, Occhiuto F. Effects of Calotropis procera on oestrous cycle and on oestrogenic functionality in rats. *Farmaco* 2001; 56(5-7):373-378.

- Circosta C, Sanogo R, Occhiuto F. Effects of Calotropis procera on oestrous cycle and on oestrogenic functionality in rats. *Farmaco* 2001;56:373-8.
- Collier, A., Rumley, A., Rumley, A.G., Paterson, J.R., Leach, J.P., Lowe, G.D., and Small, M. Free radical activity and hemostatic factors in NIDDM patients with and without microalbuminuria. *Diabetes* 1992;41, 909-913.
- Colowick SP, Kaplan NO, Packer N, eds 1984 Methods Enzymology vol105, London Academic press pp121-5 Company.1982; 891
- Cox N. Lehninger principles of biochemistry. 3rd ed. Macmillan worth publications, Newyork 2001; 799-801
- Cristina Polidori M, Pratico D, Savino K, Rokach J, Stahl W, Mecocci P. Increased F2 isoprostane plasma levels in patients with congestive heart failure are correlated with antioxidant status and disease severity. *J Card Fail.* 2004; 10:334–338
- Dai S, McNeill JH. Fructose-induced hypertension in rats is concentration- and duration-dependent. *J Pharmacol Toxicol Methods* 1995; 33:101–7
- Daly ME, Vale C, Walker M, Alberti KG, Mathers JC, Dietary carbohydrates and insulin sensitivity: a review of the evidence and clinical implications. *Am J Clin Nutr* 1997; 66:1072–85
- Dandona, P., Thusu, K., Cook, S., Snyder, B., Makowski, J., Armstrong, D., and Nicotera, T. Oxidative damage to DNA in diabetes mellitus. *Lancet* 1996; 347, 444-445.
- David Bates, Richard Robinson, Charles Jeffrey, eds. (1990). *Biology and Utilization of the Cucurbitaceae*. Cornell UP
- Davini P, Bigalli A, Lamanna F, Boem A. Controlled study on L-carnitine therapeutic efficacy in post-infarction. *Drugs Exp Clin Res.* 1992; 18:355-365.
- De Keulenaer GW, Alexander RW, Ushio-Fukai M, Ishizaka N, Griendl KK. Tumor necrosis factor alpha activates a p22 phox-based NADH oxidase in vascular smooth muscle. *Biochem J.* 1998; 329:653–657.
- De Mattia, G., Laurenti, O., Bravi, C., Ghiselli, A., Iuliano,L., and Balsano, F. Effect of aldose reductase inhibition on glutathione redox status in erythrocytes of diabetic patients. *Metabolism* 1994;43, 965-968.
- DeFronzo RA, Goldberg M, Agus Z. The effects of glucose and insulin on renal electrolyte transport. *J Clin Invest.* 1976, 8:83-90
- Dennis EJ, Raker. The laboratory rat, Vol (1). Reproduction and breeding. 1979;pp. 153-168 New York: Academic press
- Dhanasekaran S, Suresh B, Sethuraman M, Rajan S, Dubey R. Antifertility activity of Ailanthus excelsa Linn. in female albino rats. *Indian Journal of Experimental Biology* 1993;31(4):384-385

Dhar JD, Setty BS, Lakshmi V, Bhakuni DS. Post-coital antifertility activity of the marine plant, Achrostichum aureum L. in rat. Indian Journal of Medical Research 1992; 96:150-152.

Dhar SK. Anti-fertility activity and hormonal profile of trans-anethole in rats. Indian Journal of Physiology and Pharmacology 1995 Jan;39(1):63-67

Dhar SK. Antifertility activity and hormonal profile of *Trans-Anethole* in rats. Indian Physiol Pharmacol 1995;39:63-7

Dijkhorst-Oei LT, Stroes ES, Koomans HA, Rabelink TJ. Acute simultaneous stimulation of nitric oxide and oxygen radicals by angiotensin II in humans in vivo. J Cardiovasc Pharmacol 1999;33:420-424

Dimo T, Rakotonirina SV, Tan PV, Azay J, Dongo E, Cros G Leaf methanol extract of Bidens pilosa prevents and attenuates the hypertension induced by high-fructose diet in Wistar rats. J Ethnopharmacol. 2002 Dec; 83(3): 183-91

Doggrell SA. Statins in the 21st century: end of the simple story? Expert Opin Investig Drugs 2001; 10: 1755–1766 .

Dollahite JW, Shaver T & Camp BJ (1962) Injected saponins as abortifacients. American Journal of Veterinary Research 23, 1261–1263.

Donnelly R, Reed MJ, Azhar S, Reaven GM: Expression of the major isoenzyme of protein kinase-C in skeletal muscle, nPKC theta, varies with muscle type and in response to fructose-induced insulin resistance. *Endocrinology* 1994, 135:2369-2374

Donnelly R. Vascular complications of Diabetes. BMJ 2005; 320:1062-66

Dorsaz A-C, Hostettmann M & Hostettmann K Molluscicidal saponins from Sesbania sesban. Planta Medica 1988;54, 225–227.

Dubey MP, Srimal RC, Nityanand S, Dhawan BN. Pharmacological studies on coleonol, a hypotensive diterpene from Coleus forskohlii. J Ethnopharmacol 1981; 3:1-13

Duke JA. Handbook of Medicinal Herbs. Boca Raton, FL: CRC Press Inc.; 1985:401.

Dwivedi S, Agarwal MP. Antianginal and cardioprotective effects of Terminalia arjuna, an indigenous drug, in coronary artery disease. J Assoc Physicians India 1994; 42:287-289

Dzau VJ. Theodore Cooper Lecture: tissue angiotensin and pathobiology of vascular disease: a unifying hypothesis. Hypertension 2001;37:1047-1052

Eddouks M, Lemhadri, J.B. Michel. Caraway and caper: Potential anti-hyperglycaemic plants in diabetic rats. Journal of ethnopharmacology 2004; 94:143-8.

Edwards MJ, Keller BJ, Kauffman FC, Thurman RG.1993. The involvement of Kupffer cells in carbon tetrachloride toxicity. *Toxicol. Appl. Pharmacol.* 119: 275–79.

El Izzi A, Benie T, Thieulant M-L, Le Men-Oliver L & Duval J (1992) Stimulation of LH release from cultured pituitary cells by saponins of Petersianthus macrocarpus: a permeabilising effect. *Planta Medica* 58, 229–233.

El Izzi A, Duval J & Delaude C (1989) Effet d'une serie de saponines extrites de vegetaux de L'Afrique tropicale sur la libération d'hormone luteinisante par les cellules hypophysaires en culture (Effect of a series of saponin extracts from African plants on the release of luteinizing hormone by hypophysial cells in culture). *Bulletin de la Societe' Royale des Sciences de Liege* 58, 53–56.

Englisch W, Beckers C, Unkauf M, et al. Efficacy of artichoke dry extract in patients with hyperlipoproteinemia. *Arzneimittelforschung*. 2000; 50:260-265.

Erdem Akbay, Murat Bozlu, Erdal Doruk, Esen Akbay, Selahittin Çayan, Ercüment Ulusoy, Effect of Terazosin on the Lipid Profile in Patients with Symptomatic Benign Prostatic Hyperplasia. *Urologia Internationalis* 2001; 67:156-159

Ergul A, Schultz Johansen J, Stromhaug C, Harris AK, Hutchinson J, Tawfik A, Rahimi A, Rhim E, Wells B, Caldwell RW, et al. Vascular dysfunction of venous bypass conduits is mediated by reactive oxygen species in diabetes: Role of endothelin-1. *J Pharmacol Exp Ther*. 2004; 313:70–77

Erlich Y, Rosenthal T. Effect of angiotensin-converting enzyme inhibitors on fructose induced hypertension and hyperinsulinaemia in rats. *Clin Exp Pharmacol Physiol* 1995; 22(suppl): S347–9

Etoh T, Inoguchi T, Kakimoto M, Sonoda N, Kobayashi K, Kuroda J, Sumimoto H, Nawata H. Increased expression of NAD(P)H oxidase subunits, NOX4 and p22phox, in the kidney of streptozotocin-induced diabetic rats and its reversibility by interventive insulin treatment. *Diabetologia*. 2003; 46:1428–1437

Evans JL, Goldfine ID, Maddux BA, Grodsky GM. Are oxidative stress-activated signaling pathways mediators of insulin resistance and {beta}-cell dysfunction? *Diabetes*. 2003; 52:1–8

Evans JL, Goldfine ID, Maddux BA, Grodsky GM. Oxidative stress and stress-activated signaling pathways: a unifying hypothesis of type 2 diabetes. *Endocr Rev*. 2002; 23:599–622.

Felicetta JV, Sowers JR. Systemic hypertension in diabetes mellitus. *Am J Cardioi* 1988; 61:34H-40H.

Feranada CG. Almedia, Ione P. Lemonica. The toxic effects of Coleus barbatus B. on the different periods of pregnancy in rats. *Journal of Ethnopharmacology* 2000 ;73: 53-60

Feranada CG. Almedia, Ione P. *Lemonica*. The toxic effects of Coleus barbatus B. on the different periods of pregnancy in rats. *J Ethnopharmacol* 2000;73: 53-60.

Ferrannini E, DeFronzo RA. The association of hypertension, diabetes and obesity: a review. *J Nephrol* 1985; 1:3-15

Fillios LC, Andrus StB, Mann GV, Stare FJ Experimental production of gross atherosclerosis in the rat. *J Exper Med* 1956;104:539–552

Fleckenstein-Grün, Frey M, Thimm F, Fleckenstein A Protective effects of various calcium antagonists against experimental arteriosclerosis. *J Human Hypertens* 1992;6, Suppl 1:S13–S18

Fornasieri A, Perugini C, Seccia M, Napodano P, D'Amico G, Bellomo G. Circulating antibodies recognising oxidatively-modified low-density lipoproteins in patients with IgA nephropathy, membranous glomerulonephritis and focal glomerulosclerosis. *J Nephrol* 2002; 15: 349-57.

Freeman BA, Crapo JD. Biology of disease: free radicals and tissue injury. *Lab Invest*. 1982; 47:412– 426.

Fried SK, Rao SP: Sugars, hypertriglyceridemia, and cardiovascular disease. *Am J Clin Nutr* 2003, 78:873S-880S.

Friedman SL. Liver fibrosis from bench to bedside. *J Hepatol*. 2003; 38 (SI): 338-553.
Fronek K Calcium antagonists and experimental atherosclerosis. *Cardiovasc Drug Rev* 1990;8:229–237

Gaede P, Poulsen HE, Parving HH, Pedersen O. Double-blind, randomised study of the effect of combined treatment with vitamin C and E on albuminuria in Type 2 diabetic patients. *Diabet Med*. 2001; 18:756–760.

Gaertner SA, Janssen U, Ostendorf T, Koch KM, Floege J, Gwinner W. Glomerular oxidative and antioxidative systems in experimental mesangioproliferative glomerulonephritis. *J Am Soc Nephrol* 2002; 13: 2930-7.

Gaitonde BB, Mahajan RT. Antifertility activity of Lygodium flexosum. *Indian Journal of Medical Research*. 1980 Oct;72:597-604

Gans RO, Donker AJ. Insulin and blood pressure regulation. *J Intern Med*. 1991; 229(suppl 2):49-64

Garg SK, Garg GP. Antifertility screening of plants. VII. Effect of five indigenous plants on early pregnancy in albino rats. *Indian Journal of Medical Research*. 1971 Feb;59(2):302-306

Garg SK. Antifertility effect of embelia ribes and piper longum in female rats. *Indian Journal of Medical Research* 1981; 167-169

Garg SK. Antifertility screening of plants: VIII- Investigation on Taxus Baccata linn. Leaves. *Indian Journal of Medical Research*. 1972 60(1) 159-163.

Garg SK. Antifertility screening of plants--effect of four indigenous plants on early pregnancy in female albino rats. Indian Journal of Medical Research. 1976 64(8):1133-1135.

Gebrie E, Makonnen E, Zerihun L, Debella A. The possible mechanisms for the antifertility actions of the methanolic root extract of *Rumex steudelii*. Afr Health Sci 2005;5:119-25

Gey KF, Moser UK, Jordan P, Stahelin HB, Eichholzer M, Ludin E. Increased risk of cardiovascular disease at suboptimal plasma concentrations of essential antioxidants: an epidemiologic update with special attention to carotene and vitamin C. Am J Clin Nutr. 1993; 57:787S-797S

Giacchetti G, Sechi LA, Griffin CA, Don BR, Mantero F, Schambelan M. The tissue renin-angiotensin system in rats with fructose-induced hypertension: overexpression of type 1 angiotensin II receptor in adipose tissue. J Hypertens 2000; 18:695-70.

Giron, L.M., Freire, V., Alonzo, A., Caceres, A., 1991. Ethnobotanical survey of the medicinal flora used by the Caribs of Guatemala. Journal of Ethnopharmacology 34, 173-187.

Giugliano, D., Ceriello, A., and Paolisso, G. Oxidative stress and diabetic vascular complications. *Diabetes Care* 1996;19, 257-267

Glauert AM, Dingle JT & Lucy JA Action of saponin on biological membranes. Nature 1962; 196, 953-955.

Glore SR, Van Treeck D, Knehans AW, Soluble fiber and serum lipids: a literature review. *J Am Diet Assoc.* 1994; 94:425-436.

Gonzales GF, Gonez C, Villena A. Serum lipid and lipoprotein levels in postmenopausal women: short-course effect of caigua. *Menopause*. 1995; 2:225-234.

Goonaeikera MM, Gunawardana VK, Jayasena K, Mohammed SG, Balasubramaniam. Pregnancy terminating effect of *Jatropha curcas* in rats. Journal of Ethnopharmacology 1995 Jul 28; 47(3):117-123

Gotto AM Jr: Triglyceride as a risk factor for coronary artery disease. *Am J Cardiol* 1998, 82:22-25 Q.

Govan, A.T., Macfarlane, P.S. and Callander, R. (1986) Pathology illustrated, 2nd Edition, Churchill Livingstone, Edinburgh, New York.pp231.

Green K, Brand MD, Murphy MP. Prevention of mitochondrial oxidative damage as a therapeutic strategy in diabetes. *Diabetes*. 2004; 53:S110-118.

Griendling KK, FitzGerald GA. Oxidative stress and cardiovascular injury: Part I: Basic mechanisms and in vivo monitoring of ROS. *Circulation*. 2003; 108:1912-1916.

Griendling KK, FitzGerald GA. Oxidative stress and cardiovascular injury: Part II: animal and human studies. *Circulation*. 2003; 108:2034–2040.

Griendling KK, Minieri CA, Ollerenshaw JD, Alexander RW. Angiotensin II stimulates NADH and NADPH oxidase activity in cultured vascular smooth muscle cells. *Circ Res*. 1994; 74:1141–1148.

Griesmacher, A., Kindhauser, M., Andert, S.E., Schreiner,W., Toma, C., Knoebl, P., Pietschmann, P., Prager,R., Schnack, C., and Schernthaner, G. Enhanced serum levels of thiobarbituric-acid-reactive substances in diabetes mellitus. *Am. J. Med.* 1995; 98, 469-475.

Grover JK, Vats V, Yadav SS. *Pterocarpus marsupium* extract (Vijayasar) prevented the alteration in metabolic patterns induced in the normal rat by feeding an adequate diet containing fructose as sole carbohydrate Diabetes, Obesity and Metabolism 7 (4), 414–420. 2005

Grover JK, Yadav SP, Vats V Effects of feeding *Murraya koeingii* and *Brassica juncea* diet kidney functions and glucose levels in streptozocin diabetic mice.Journal of Ethnopharmacology. 2003; 85 :1-5.

Grundy SM: Hypertriglyceridemia, atherogenic dyslipidemia, and the metabolic syndrome. *Am J Cardiol* 1998, 81:18-25B.

Grunewald, R.W., Weber, H., Kinne Saffran, E., and Kinne, R.K. Control of sorbitol metabolism in renal inner medulla of diabetic rats: regulation by substrate, cosubstrate and products of the aldose reductase reaction. *Biochimica et Biophysica Acta* 1993; 1225, 39-47.

Guillet-Deniau I, Mieulet V, Le Lay S, Achouri Y, Carre D, Girard J, Foufelle F, Ferre P: Sterol regulatory element binding protein-1c expression and action in rat muscles: insulin-like effects on the control of glycolytic and lipogenic enzymes and UCP3 gene expression.*Diabetes* 2002, 51:1722-1728.

Gupta S, McArthur C, and Ruderman NB. Differential stimulation of Na^+ pump activity by insulin and nitric oxide in rabbit aorta. *Am J Physiol Heart Circ Physiol* 1994;266: H128–H129.

Gupta S, Phipps K, and Ruderman NB. Differential stimulation of Na^+ pump activity by insulin and nitric oxide in rabbit aorta. *Am J Physiol Heart Circ Physiol* 1996;270: H1287–H1293,

Guzik TJ, Mussa S, Gastaldi D, Sadowski J, Ratnatunga C, Pillai R, Channon KM. Mechanisms of increased vascular superoxide production in human diabetes mellitus: role of NAD(P)H oxidase and endothelial nitric oxide synthase. *Circulation*. 2002; 105:1656–1662.

Guzik TJ, West NE, Black E, McDonald D, Ratnatunga C, Pillai R, Channon KM. Vascular superoxide production by NAD(P)H oxidase: association with endothelial dysfunction and clinical risk factors. *Circ Res*. 2000; 86:E85–90.

Gylling H, Miettinen TA. Cholesterol reduction by different plant stanol mixtures and with variable fat intake. *Metabolism*. 1999; 48:575-580.

Gylling H, Miettinen TA. Serum cholesterol and cholesterol and lipoprotein metabolism in hypercholesterolaemic NIDDM patients before and during sitostanol ester-margarine treatment. *Diabetologia*. 1994; 37:773-780.

Ha H, Lee HB. Reactive oxygen species and matrix remodeling in diabetic kidney. *J Am Soc Nephrol* 2003; 14 (suppl 3): S246-9.

Hackman, R. Insulin resistance: Nutritional and herbal solutions. *Nutrition Science News*, 1996; May issue, 37.121-140

Hadjiinky P, Bourdillon MC, Grosogeoat Y Modèles expérimentaux d'athérosclérose. Apports, limites et perspectives. *Arch Mal Coeur Vaiss* 1991;84:1593-1603.

Haendeler J, Hoffmann J, Zeiher AM, Dimmeler S. Antioxidant effects of statins via S-nitrosylation and activation of thioredoxin in endothelial cells: a novel vasculoprotective function of statins. *Circulation*. 2004; 110:856-861.

Hafez, ES, Reproduction in breeding techniques for laboratory animals. 1970; PP. 23-93. Philadelphia; Lea and Febiger.

Hallfrisch J Metabolic effects of dietary fructose. *FASEB J*. 1990; 4: 2652-60

Han LK, Xu BJ, Kimura Y, Zheng YN & Okuda H Platycodi radix affects lipid metabolism in mice with high fat dietinduced obesity. *Journal of Nutrition* 2000; 130, 2760-2764.

Hanausek M, Ganesh P, Walaszek Z, Arntzen CJ, Slaga TJ & Guterman JU Avicins, a family of triterpenoid saponins from *Acacia victoriae* (Bentham), suppress H-ras mutations and aneuploidy in a murine skin carcinogenesis model. *Proceedings of the National Academy of Sciences USA* 2001; 98, 11551-11556.

Hansen LL, Ikeda Y, Olsen GS, Busch AK, and Mosthaf L. Insulin signaling is inhibited by micromolar concentrations of H₂O₂. *J Biol Chem* 1999;274: 25078-25084,

Hansson L, Lindholm LH, Ekbom T, Dahlöf B, Lanke J, Schersten B, Wester PO, Hedner T, and de Faire U. Effect of angiotensin-converting-enzyme inhibition compared with conventional therapy on cardiovascular morbidity and mortality in hypertension: the Captopril Prevention Project (CAPP) randomized trial. *Lancet* 1999; 353: 611-616,

Haridas V, Arntzen CJ & Guterman JUAvicins, a family of triterpenoid saponins from *Acacia victoriae* (Bentham), inhibit activation of nuclear factor-kappa B by inhibiting both its nuclear localization and ability to bind DNA. *Proceedings of the National Academy of Sciences USA* 2001a; 98, 11557-11562.

Harris WS, Dujovne CA, Windsor SL, Gerrond LLC, Newton FA & Gelfand RA Inhibiting cholesterol absorption with CP-88,818 (beta-tigogenin cellobioside;

tiqueside): Studies in normal and hyperlipidemic subjects. *Journal of Cardiovascular Pharmacology* 1997; 30, 55–60.

Hayamizu K Hirakawa H, Oikawa D, Nakanishi T, Takagi T Tachibana T, Furuse M Effect of *Garcinia cambogia* extract on serum leptin and insulin in mice. *Fitoterapia* 2003 ; 74(3):267-73.

Hayden MR, Tyagi SC. Myocardial redox stress and remodeling in metabolic syndrome, type 2 diabetes mellitus, and congestive heart failure. *Med Sci Monit.* 2003; 9:SR35–52.

Heacock PM, Hertzler SR, Williams JA, Wolf BW Effects of a medical food containing an herbal alpha-glucosidase inhibitor on postprandial glycemia and insulinemia in healthy adults. *J Am Diet Assoc.* 2005; 105(1):65-71.

Heller R, Unbehaun A, Schellenberg B, Mayer B, Werner-Felmayer G, Werner ER. L-ascorbic acid potentiates endothelial nitric oxide synthesis via a chemical stabilization of tetrahydrobiopterin. *J Biol Chem.* 2001; 276:40–47

Hennig B, Toborek M, McClain CJ. High-energy diets, fatty acids and endothelial cell function: implications for atherosclerosis. *J Am Coll Nutr* 2001; 20: 97–105.

Hensley K, Benaksas EJ, Bolli R, Comp P, Grammas P, Hamdheydari L, Mou S, Pye QN, Stoddard MF, Wallis G, et al. New perspectives on vitamin E: gamma-tocopherol and carboxyethylhydroxchroman metabolites in biology and medicine. *Free Radic Biol Med.* 2004; 36:1–15.

Hensley K, Robinson KA, Gabbita SP, Salsman S, Floyd RA. Reactive oxygen species, cell signaling, and cell injury. *Free Radic Biol Med.* 2000; 28:1456–1462

Herman RH, Zakim D, Stifel FB: Effect of diet on lipid metabolism in experimental animals and man. *Fed Proc* 1970, 29:1302-1307.

Higashi Y, Sasaki S, Nakagawa K, Matsuura H, Oshima T, Chayama K. Endothelial function and oxidative stress in renovascular hypertension. *N Engl J Med* 2002; 346:1954-1962.

Hill MF, Singal PK. Antioxidant and oxidative stress changes during heart failure subsequent to myocardial infarction in rats. *Am. J. Pathol.*, 1996;148: 291-300

Hiremath SP, Badami S, Hunasagatta SK, Patil SB. Antifertility and hormonal properties of flavones of *Striga orobanchioides*. *European Journal of Pharmacology* 2000 Mar 10;391(1-2):193-197.

Hiremath SP, Rao SH, Jain PK, Jaya Y, Sembulingam K. Antifertility activity of striga lutea--Part I. *Indian Journal of Physiology and Pharmacology* 1990;34(1):23-25.

Hiremath SP, Rudresh K, Badami S, Patil SB, Patil SR. Post-coital antifertility activity of *Acalypha indica* L. *Journal of Ethnopharmacology* 1999 Nov 30;67(3):253-258

Hirsch J: Role and benefits of carbohydrate in the diet: key issues for future dietary guidelines. *Am J Clin Nutr* 1995, 61:996S-1000S.

Hodgson JM, Watts GF, Playford DA, Burke V, Croft KD. Coenzyme Q10 improves blood pressure and glycaemic control: a controlled trial in subjects with type 2 diabetes. *Eur J Clin Nutr*. 2002; 56:1137-1142.

Hodgson JM, Watts GF. Can coenzyme Q10 improve vascular function and blood pressure? Potential for effective therapeutic reduction in vascular oxidative stress. *Biofactors*. 2003; 18:129-136.

Holmes WL Drugs affecting lipid synthesis. In: Paoletti R (ed) *Lipid Pharmacology*, Academic Press, New York, London 1964; chapter 3, pp 131-184

Hornig B, Landmesser U, Kohler C, et al. Comparative effect of ACE inhibition and angiotensin II type 1 receptor antagonism on the bioavailability of nitric oxide in patients with coronary artery disease: role of superoxide dismutase. *Circulation* 2001; 103:799-805.

Howard BV. Insulin resistance and lipid metabolism *Am J Cardiol*. 1999 8; 84(1A):28J-32J.

Hsieh PS; Tai YH Aqueous extract of *Monascus purpureus* M9011 prevents and reverses fructose-induced hypertension in rats. *J-Agric-Food-Chem*. 2003; 51(14): 3945-50.

Hu M, Konoki K & Tachibana K Cholesterol-independent membrane disruption caused by triterpenoid saponins. *Biochimica et Biophysica Acta – Lipid Metabolism* 1996; 1299, 252-258.

Hunt, J.V., Smith, C.C., and Wolff, S.P. Autoxidative glycosylation and possible involvement of peroxides and free radicals in LDL modification by glucose. *Diabetes* 1990;39, 1420-1424.

Husain, J., Tickle, I.J., Wood, S.P., Crystal structure of momordin,a type I ribosome inactivating protein from the seeds of *Momordica charantia*. *FEBS Letters* 1994. 342, 154-158.

Hwang I-S, Huang W-C, Wu J-N, Shian LR, Reaven GM. Effect of fructose-induced hypertension on the renin-angiotensin aldosterone system and atrial natriuretic factor. *Am J Hypertens*. 1989; 2:424-427.

Hwang I-S, Ho H, Hoffmann BB, Reaven GM. Fructose-induced insulin resistance and hypertension in rats. *Hypertension* 1987; 10: 512-516.

Hyun Ok Yang, Woo Kyung Ko, Jae Youn Kim and Hwan Seong Ro. Paeoniflorin: an antihyperlipidemic agent from *Paeonia lactiflora*. *Fitoterapia* 2004 Jan;75, (1): 45-9.

Ignatowski A Über die Wirkung des tierischen Eiweißes auf die Aorta und die parenchymatösen Organe der Kaninchen. *Virchow's Arch pathol Anat Physiol* 1909;198:248-270.

Indian Council of Medical Research (ICMR) Collaborating Centres, Central Biostatistical Monitoring Unit, Chennai & Central Technical Coordinating Unit, ICMR, New Delhi Flexible dose open trial of Vijayasar in cases of newly-diagnosed non-insulin-dependent diabetes mellitus. *Ind. J. Med. Res.*, 1998;108, 24-29.

Irani K. Oxidant signaling in vascular cell growth, death and survival: a review of the roles of reactive oxygen species in smooth muscle and endothelial cell mitogenic and apoptotic signaling. *Circ Res* 2000; 87:179-183.

Isenovic E, Meng Y, Divald A, Milivojevic N, and Sowers JR. Role of phosphatidylinositol 3-kinase/Akt pathway in angiotensin II and insulin-like growth factor-1 modulation of nitric oxide synthase in vascular smooth muscle cells. *Endocrinology* 19: 287-291, 2002

Isenovic ER, Divald A, Milivojevic N, Grgurevic T, Fisher SE, and Sowers JR. Interactive effects of insulin-like growth factor-1 and β -estradiol on endothelial nitric oxide synthase activity in rat aortic endothelial cells. *Metabolism* 2003;52: 482-487,

Iwata K, Inayama T, Kato T. Effects of *Spirulina platensis* on plasma lipoprotein lipase activity in fructose-induced hyperlipidemic rats. *J Nutr Sci Vitaminol.* 1990; 36:165-171.

J D. Neaton, R.H. Grimm, Jr, R.J. Prineas ., Treatment of mild hypertension study. Final results. *JAMA* 270 (1993), pp. 713-724

Jahromi MA and Ray AB. Antihyperlipidemic effect of flavonoids from *Pterocarpus marsupium*. *J Nat Prod* 1993; 56(7): 989-94.

Jalkanen J, Leppanen P, Narvanen O, Greaves DR, Yla-Herttuala S. Adenovirus-mediated gene transfer of a secreted decoy human macrophage scavenger receptor (SR-AI) in LDL receptor knock-out mice. *Atherosclerosis* 2003; 169: 95-103

James MC, Ramzi SC. The Pancreas. In: Vinay K, Tucker C, Ramzi SC editors. Robbins, Pathologic basis of disease. 6th ed. Harcourt publishers international 2000; 913-18

Jhon Philip. The Pain. 1998; [11 pages]. Available at: URL: <http://nic.sav.sk./logos/books/scientific/node36.html>. Accessed Jan 8, 2004.

Jie YH, Cammisuli S & Baggolini M Immunomodulatory effects of *Panax ginseng* C. A. MEYER in the mouse. *Agents and Actions* 1984;15, 386-391.

JK Grover, V Vats and SS Yadav. *Pterocarpus marsupium* extract (Vijayasar). prevented the alteration in metabolic patterns induced in the normal rat by feeding an

adequate diet containing fructose as sole carbohydrate. *Diabetes, Obesity and Metabolism* 2005 July; 7 (4): P: 414.

Johnson IT, Gee JM, Price K, Curl C & Fenwick GR Influence of saponins on gut permeability and active nutrient transport in vitro. *Journal of Nutrition* 1986; 116, 2270-2277.

Jon W. Lomasney, Susanna Cotecchia, Wulffing Lorerb Wah-Ying Leung, Debra A. Schwinn,d Teresa L. Yang-Feng, Michael Brownstein, Robert J. Lefkowitz and Marc G. Caron Molecular Cloning and Expression of the cDNA for the α -Adrenergic Receptor. *The Journal Of Biologica Clhemistry*, 1991;266; 10.

Joseph LE, Ira DG, Betty AM, Gerold MG. Are oxidative stress activated signaling pathways mediators of insulin resistance and b-cell dysfunction? *Diabetes*. 2003; 52: 1-8

Kahn SE, Andrikopoulos S, Verchere CB: Islet amyloid:a long-recognized but underappreciated pathological feature of type 2 diabetes. *Diabetes* 1999, 48:241-253.

Kajimoto, O., Kawamori, S., Shimoda, H., Kawahara, Y., Hirata, H. & Takahashi, T Effect of Diet Containing Salacia reticulata on Mild Type 2 Diabetes in Humans -A Placebo-controlled, Cross-over Trial *J. Jpn. Soc. Nutr. Food Sci.* 2000; 53(5):199-206.

Kamath VJ, Rana AC. Preliminary study on antifertility activity of Calotropis procera roots in female rats. *Fitoterapia*. 2000; 73: 111-115

Kameswararao B, Kesavulu MM, Apparao C. Evaluation of antidiabetic effect of momordica cymbalaria fruit in alloxan-diabetic rats *Fitoterapia* 2003; 74:7-13.

Kameswararao B, Kesavulu MM, Giri R, Apparao C. Antidiabetic and hypolipidemic effect of Momordica Cymbalaria Hook. fruit powder in alloxan-diabetic rats *J. Ethnopharmacol* 1999; 67:103-10.

Kameswararao B., Kesavulu MM, Ch Apparao. Antihyperglycemic activity of momordica cymbalaria in alloxan diabetic rats.*J. Ethnopharmacol* 2001; 78: 67-71

Kashiwagi, A., Asahina, T., Nishio, Y., Ikebuchi, M., Tanaka, Y., Kikkawa, R., and Shigeta, Y. Glycation, oxidative stress, and scavenger activity: glucose metabolism and radical scavenger dysfunction in endothelial cells. *Diabetes* 1996; 45, S84-S86.

Kaul N, Siveski-Iliskovic N, Hill M, Khaper N, Seneviratne C, Singal PK. Probucol treatment reverses antioxidant and functional deficit in diabetic cardiomyopathy. *Mol Cell Biochem*. 1996; 160-161:283-288

Kaul N, Siveski-Iliskovic N, Hill M, Khaper N, Seneviratne C, Singal PK. Probucol treatment reverses antioxidant and functional deficit in diabetic cardiomyopathy. *Mol Cell Biochem*. 1996;160-161:283- 288

Kawamura, N., Ookawara, T., Suzuki, K., Konishi, K., Mino, M., and Taniguchi, N. Increased glycated Cu,Zn-superoxide dismutase levels in erythrocytes of patients with insulin-dependent diabetes mellitus. *The Journal of Clinical Endocrinology and Metabolism* 1992; 74, 1352-1354.

Kazumi T, Odaka H, Hozumi T, Ishida Y, Amano N, Yoshino G: Effects of dietary fructose or glucose on triglyceride production and lipogenic enzyme activities in the liver of Wistar fatty rats, an animal model of NIDDM. *Endocr J* 1997, 44:239-245

Kedar, P. and Chakrabarti, C.H. Effects of jambilan seed treatment on blood sugar,lipids and urea in streptozotocin induced diabetes in rabbits. *Ind. J. Physiol. Pharmac.* 1983; 27(2):135-141.

Kedziora-kornatowska K, Szram S, Kornatowski T, Szadujkis-Szadurski L, Kedziora J, Bartosz G. Effect of vitamin E and vitamin C supplementation of antioxidative state and renal glomerular basement membrane thickness in diabetic kidney. *Exp Nephrology.* 2003; 95:134–143

Kehrer JP. Free radicals as mediators of tissue injury and disease. *Crit Rev Toxicol.* 1993; 23:21– 48.

Keshri G, Singh MM, Lakshmi V, Kamboj VP. Post-coital contraceptive efficacy of the seeds of Nigella sativa in rats. Indian Journal of Physiology and Pharmacology 1995 Jan;39(1):59-6.

Khan A, Safdar M, Ali Khan MM. Cinnamon improves glucose and lipids of people with Type 2 diabetes. *Diabetes Care.* 2003; 26:3215-3218.

Khanna U, Garg SK, Vohra SB, Chaudhury RR. Antifertility screening of plants. II. Effect of six indigenous plants on early pregnancy in albino rats. *Indian J Med Res.* 1969 57(2):237-44.

Khanna U, Garg SK, Vohra SB, Walia HB, Chaudhury RR. Antifertility screening of plants. II. Effect of six indigenous plants on early pregnancy in albino rats. *Indian Journal of Medical Research.* 1969 Feb;57(2):237-244

Kholkute SD, Kekare MB, Jathar VS, Munshi SR. Antifertility effects of Embelia ribes Burm. *Indian Journal of Experimental Biology.* 1978 Oct;16(10):1035-1037

Kim DH, Jung JS, Suh HW, Huh SO, Min SK, Son BK, Park JH, Kim ND, Kim YH & Song DK. Inhibition of stressinduced plasma corticosterone levels by Ginsenosides in mice: involvement of nitric oxide. *Neuroreport* 1998; 9, 2261–2264.

Kim JB, Sarraf P, Wright M, Yao KM, Mueller E, Solanes G, Lowell BB, Spiegelman BM: Nutritional and insulin regulation of fatty acid synthetase and leptin gene expression through ADD1/SREBP1. *J Clin Invest* 1998, 101:1-9.

Kim SH, Kang KW, Kim KW, Kim ND Procyanidins in crataegus extract evokes endothelium-dependent vasorelaxation in rat aorta. *Life Sci* 2000; 67:121-131

Kim YB, Nikonlina SE, Ciaraldi TP, Henry RR, and Kahn BB. Normal insulin-independent activation of Akt/protein kinase B, with diminished activation of phosphoinositide 3-kinase in muscle of type 2 diabetics. *J Clin Invest* 104: 733–741, 1999

Kim YR, Lee SY, Shin BA & Kim KM Panax ginseng blocks morphine-induced thymic apoptosis by lowering plasma corticosterone level. *General Pharmacology* 1999;32, 647–652.

Kirtikar R, Basu BD. Cucurbitaceae. Indian Medicinal Plants. 2nd edition. Allahabad: Shiva offset press; 1935 .p. 1137.

Kitada M, Koya D, Sugimoto T, Isono M, Araki S, Kashiwagi A, Haneda M. Translocation of glomerular p47phox and p67phox by protein kinase C-beta activation is required for oxidative stress in diabetic nephropathy. *Diabetes*. 2003; 52:2603–2614

Kjeldsen K, Stender S Calcium antagonists and experimental atherosclerosis. *Proc Soc Exp Biol Med* 1989;190:219–228

Knorr AM, Kazda S Influence of nifedipine on experimental arteriosclerosis. *Cardiovasc Drugs Ther* 1990; 4:1027–1032

Ko YJ, Wu YW and Lin WC. Hypolipidemic effect of Glycine tomentella root extract in hamsters. *Am J Chin Med* 2004; 32(1): 57-63.

Kocak G, Aktan F, Canbolat O, Ozogul C, Elberg S, Yildizoglu-Ari N, Karasu C. Alpha-lipoic acid treatment ameliorates metabolic parameters, blood pressure, vascular reactivity and morphology of vessels already damaged by streptozotocin-diabetes. *Diab Nutr Metab*. 2000; 13:308–318

Kok FJ, de Bruijn AM, Vermeeren R, Hofman A, van Laar A, de Bruin M, Hermus RJ, Valkenburg HA. Serum selenium, vitamin antioxidants, and cardiovascular mortality: a 9-year follow-up study in the Netherlands. *Am J Clin Nutr*. 1987; 45:462-468

Kok FJ, de Bruijn AM, Vermeeren R, Hofman A, van Laar A, de Bruin M, Hermus RJ, Valkenburg HA. Serum selenium, vitamin antioxidants, and cardiovascular mortality: a 9-year follow-up study in the Netherlands. *Am J Clin Nutr*. 1987; 45:462-468

Kok N, Roberfroid M, Delzenne N: Dietary oligofructose modifies the impact of fructose on hepatic triacylglycerol metabolism. *Metabolism* 1996, 45:1547-1550.

Koneri R, Balaraman R, Saraswati CD. Antiovulatory and abortifacient potential of the ethanolic extract of roots of *Momordica cymbalaria* Fenzl in rats. *Indian J Pharmacol* 2006 ;38:111-114

Konoshima T, Takasaki M, Tokuda H, Nishino H, Duc NM, Kasai R & Yamasaki K. Anti-tumor-promoting activity of majonoside-R2 from Vietnamese ginseng, *Panax vietnamensis* H.Aet GRUSHV. (I). *Biological and Pharmaceutical Bulletin* 1998; 21, 834–838.

Kostin IV, Tsybusov AP, Minina SA. Antiarhythmic activity of ajmaline obtained from *Rauwolfia serpentina* biomass grown in tissue culture. *Kardiologiya* 1990; 30:72-74

Koteish A, Diehl AM: Animal models of steatosis. *Semin Liver Dis* 2001, 21:89-104.

Kraft K. Artichoke leaf extract—recent findings reflecting effects on lipid metabolism, liver and gastrointestinal tracts. *Phytomedicine*. 1997; 4:369-378.

Kritchevsky D Experimental Atherosclerosis. In Paoletti R (ed) *Lipid Pharmacology*, Academic Press, New York, London, 1964; Chapter 2, pp 63–130

Kritchevsky SB, Morris DL, Davis CE. Putative pro- and antioxidants and the incidence of coronary heart disease: the Lipid Research Clinics Coronary Primary Prevention Trial. *Am J Epidemiol*. 1993; 138:602

Kuhnz W, Beier S. Comparative progestational and androgenic activity of norgestimate and levonorgestrel in the rat. *Contraception* 1994;49:275-89.

Kumar KV, Das UN. Are free radicals involved in the pathobiology of human essential hypertension? *Free Radic Res Commun* 1993; 19(1): 59-6.

Kumar Shetty A, Suresh Kumar G, Veerayya Salimath P. Bitter gourd (*Momordica charantia*) modulates activities of intestinal and renal disaccharidases in streptozotocin-induced diabetic rats. *Mol Nutr Food Res*. 2005; 49(8):791-6.

Kushwaha SK, Avijeet J, Anurekha J, Gupta VB, Patel JR. Hepatoprotective activity of the fruits of *Momordica dioica*. *Nigerian Journal of Natural Products and Medicine*. 2005;9: 29-31

Kuznetzova TA, Anisimov MM & Popov AM. A comparative study in vitro of physiological activity of triterpene glycosides of marine invertebrates of echinoderm type. *Comparative Biochemistry and Physiology* 1982; 73C, 41–43.

Kylin E: Studien ueber das Hypertonie-Hyperglyka"mie-Hyperurika" miesyndrom. *Zentralblatt fuer Innere Medizin* 1923, 44:105-127

Laaksonen, D.E., and Sen, C.K. Exercise and Oxidative Stress in Diabetes Mellitus. In: *Handbook of Oxidants and Antioxidants in Exercise*. Ed: Sen CK, Packer L and Hanninen O. Amsterdam: Elsevier, 2000; 1105-1136.

Lailerd N, Saengsirisuwan V, Sloniger JA, Toskulkao C, Henriksen EJ. Effects of stevioside on glucose transport activity in insulin- sensitive and insulin-resistant rat skeletal muscle. *Metabolism*, 2004 Jan; 53(1): 101-7.

Lans, C., Brown, G.,. Observations on ethnoveterinary medicines in Trinidad and Tobago. Preventive Veterinary Medicine 1998; 35, 125–142.

Lee HS, Kim YS. Identification of oxidized low density lipoprotein in human renal biopsies. *Kidney Int* 1998; 54: 848-56.

Lee KT, Sohn IC, Kim DH, Choi JW & Kwon SH Hypoglycaemic and hypolipidemic effects of tectorigenin and kaikasaponin III in the streptozotocin-induced diabetic rat and their antioxidant activity in vitro. *Archives of Pharmacal Research* 2000; 23, 461–466.

Lee SJ, Son KH, Chang HW, Kang SS & Kim HP Antiinflammatory activity of Lonicera japonica. *Phytotherapy Research* 1998; 12, 445–447.

Lee Y, Hirose H, Ohneda M, Johnson JH, McGarry JD, Unger RH: Beta-cell lipotoxicity in the pathogenesis of non-insulin-dependent diabetes mellitus of obese rats: Impairment in adipocyte beta-cell relationships. *Proc Natl Acad Sci USA* 1994, 91:10878-10882

Lee Y, Hirose H, Zhou YT, Esser V, McGarry JD, Unger RH: Increased lipogenic capacity of the islets of obese rats. A role in the pathogenesis of NIDDM. *Diabetes* 1997, 46:408-413.

Lemonica IP, Alvarenga CMD. Abortive and teratogenic effect of Acanthospermum hispidum DC. and Cajanus cajan (L.) Millps. in pregnant rats. *Journal of Ethnopharmacology* 1994 Jun;43(1):39-44

Lerman LO, Nath KA, Rodriguez-Porcel M, et al. Increased oxidative stress in experimental renovascular hypertension. *Hypertension* 2001;37:541-546

Leuchtgens H. Crataegus Special Extract WS 1442 in NYHA II heart failure. A placebo controlled randomized double-blind study. *Fortschr Med* 1993; 111:352-354

Levine R: Monosaccharides in health and disease. *Annu Rev Nutr* 1986, 6:211-224

Li D, Chen H, Romeo F, Sawamura T, Saldeen T, Mehta JL. Statins modulate oxidized low-density lipoprotein-mediated adhesion molecule expression in human coronary artery endothelial cells: role of LOX-1. *J Pharmacol Exp Ther* 2002; 302: 601–605

Li D, Liu L, Chen H, Sawamura T, Ranganathan S, Mehta JL. LOX-1 mediates oxidized low-density lipoprotein-induced expression of matrix metalloproteinases in human coronary artery endothelial cells. *Circulation* 2003;107:612–617

Li D, Mehta JL. 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors protect against oxidized low-density lipoprotein-induced endothelial dysfunction. *Endothelium* 2003; 10: 17–21

Li D, Sweeney G, Wang Q, and Klip A. Participation of PI3-K and atypical PKC in Na^+,K^+ -pump stimulation by IGF-1 in VSMC. *Am J Physiol Heart Circ Physiol* 276: H2109–H2116, 1999

Li Y, Higashiura K, Ura N, Torii T, Agata J, Wang L, Togashi N, Shimamoto K.. Effects of the Chinese medicine, TSJN on insulin resistance and hypertension in fructose-fed rats. *Hypertens Res.* 2000; 23(2): 101-7

Linke A, Adams V, Schulze PC, Erbs S, Gielen S, Fiehn E, Mobius-Winkler S, Schubert A, Schuler G, Hambrecht R. Antioxidative effects of exercise training in patients with chronic heart failure: increase in radical scavenger enzyme activity in skeletal muscle. *Circulation.* 2005; 111:1763–1770.

Litherland GJ, Hajduch E, Gould GW, Hundal HS: Fructose transport and metabolism in adipose tissue of Zucker rats: diminished GLUT5 activity during obesity and insulin resistance. *Mol Cell Biochem* 2004, 261:23-33

Liu B.L., Zhu, D.N., Wang, G.,. The anti-hyperglycemic effect of ethanol extract of *Prunella vulgaris* L. to mice. *Journal of China Pharmaceutical University* 1995; 26, 44–46.

Liu TP, Liu IM and Cheng JT. Improvement of insulin resistance by Panaxginseng in fructose-richchow-fed rats. *Horm Metab Res* 2005 Mar;37(3): 146-51

Liu Y, Guterman DD. The coronary circulation in diabetes: influence of reactive oxygen species on K^+ channel-mediated vasodilation. *Vascul Pharmacol.* 2002; 38:43–49

Liu Y, Terata K, Chai Q, Li H, Kleinman LH, Guterman DD. Peroxynitrite inhibits Ca^{2+} -activated K^+ channel activity in smooth muscle of human coronary arterioles. *Circ Res.* 2002; 91:1070–1076

Louis H.JL. Van Laethem W, Wu E, Quertinmont C, Degraef K, Van den Berg A, Demols M, Goldman O, Le Moine A, Geerts, Deviere J. 1998. Interleukin-10 controls neutrophilic infiltration, hepatocyte proliferation, and liver fibrosis induced by carbon tetrachloride in mice. *Hepatology.* 28: 1607–1615

Ludvik BH, Mahdjoobian K, Waldhaeusl W, The effect of *Ipomoea batatas* (Caiapo) on glucose metabolism and serum cholesterol in patients with type 2 diabetes: a randomized study. *Diabetes Care.* 2002; 25:239-240.

Luo L, Li Z, Zhang Y, Huang R Triterpenes and steroid compounds from *Momordica dioica* Yao Xue Xue Bao. 1998; 33(11):839-42.

Lustalot P, Schuler W, Albrecht W Comparison of drug actions in a spectrum of experimental anti-atherosclerotic test systems. In: Garattini S, Paoletti R (eds) Drugs affecting lipid metabolism. Elsevier Publ Comp., Amsterdam, 1961;pp 271–276

Lutterodt GD. Abortifacient properties of an extract from *Sida veronicaefolia*. *Journal of Ethnopharmacology* 1988;23(1):27-37

Lyons, T.J. Glycation and oxidation: a role in the pathogenesis of atherosclerosis. *The American Journal of Cardiology* 1993; 71, 26B-31B.

M Prasanna. Hypolipidemic effect of Fenugreek- A clinical study. *Indian journal of Pharmacology* 2000; 32: 34-36.

M. Giordano, M. Matsuda, L. Sanders Effects of angiotensin-converting enzyme inhibitors, Ca²⁺ channel antagonists and α -adrenergic blockers on glucose and lipid metabolism in NIDDM patients with hypertension. *Diabetes* 44 (1995), pp. 665–671.

M. Carpenter, F. C. Goetz, P. M. LeCompte ,J. R. Williamson Glomerulosclerosis in Type 2 (noninsulin-dependent) diabetes mellitus: relationship to glycaemia in the University Group Diabetes Program (UGDP) *Diabetologia* 1993 ;36 (10) : 1057-1063

M. Velasco, H. Silva, E. Feldstein, R. Pellicer, J. Morillo, A. Urbina-Quintana and O. Hernández-Pieretti ,Effects of prazosin and alphamethyldopa on blood lipids and lipoproteins in hypertensive patients *European Journal of Clinical Pharmacology* 28(5), 513-516,1985

M.A. Young, R.D. Watson and W.A. Littler , Baroreflex setting and sensitivity after acute and chronic Nicardipine therapy. *Clinical Science* 66 (1984), pp. 233–235

M.F. Mahomedally, A. Gurib-Fakim and A.H. SubrattyEffect of exogenous ATP on Momordica charantia Linn. (Cucurbitaceae) induced inhibition of d-glucose, l-tyrosine and fluid transport across rat averted intestinal sacs in vitro *Journal of Ethnopharmacology*, 2007 110, (2), 257-26.

Maejima, K., Nakano, S., Himeno, M., Tsuda, S., Makiishi,H., Ito, T., Nakagawa, A., Kigoshi, T., Ishibashi, T., Nishio, M., and Uchida, K. Increased basal levels of plasma nitric oxide in Type 2 diabetic subjects. Relationship to microvascular complications. *Journal of Diabetes and its Complications* 2001; 15, 135-143.

Maezaki Y, Tsuji K, Nakagawa Y, Kawai, & Akimoto, M. Hypocholesterolemic effect of chitosan in adult males. *Biosci Biotechnol Biochem*. 1993;57:1439-1444

Maharaj K, Froh KH & Campbell JB Immune responses of mice to inactivated rabies vaccine administered orally: potentiation by Quillaja saponin. *Canadian Journal of Microbiology* 1986; 32, 414–420.

Maiti R, Jana D, Das UK, Ghosh D Antidiabetic effect of aqueous extract seed of Tamarindus indica in streptozocin-induced diabetic rats. *Journal of Ethnopharmacology* 2004. 92: 85-91

Malle E, Buch T, Grone HJ. Myeloperoxidase in kidney disease. *Kidney Int* 2003; 64: 1956-67.

Manickam, M, Ramanathan, M.; Farboodniay Jahromi, A. Antihyperglycemic activity of phenolics from *Pterocarpus marsupium*. *J. Nat. Prod.*, 1997; 60(6), 609-610.

Manuel J. Ayber, Alicia N. Sanchez Riera, Alfredo Grau, Sara S. Sanchez. Hypoglycemic effect of the water extract of Smallanthus sonchifolius (yacon) leaves in normal and diabetic rats. *Journal of ethnopharmacology* 2001; 74:125-32.

Maria I, Bolognesi, Gabriella Marucci, Piero Angeli, Anna Minirini, Michela Rosini, Carlo Melchiorre (2001) Analogues of prazosin that bear a benextramine-related polyamine backbone exhibit different antagonism towards a α 1-adrenoreceptor subtypes. *J. Med. Chem.* 44,

Marino SD, Iorizzi M, Palagiano E, Zollo F & Roussakis C (1998) Starfish saponins. 55. Isolation, structure elucidation, and biological activity of steroid oligoglycosides from an Antarctic starfish of the family Asteriidae. *Journal of Natural Products* 61, 1319–1327.

Maritim A, Sanders R, Watkins JI. Effects of alpha-lipoic acid on biomarkers of oxidative stress in streptozotocin-induced diabetic rats. *J Nutr Biochem.* 2003; 14:288–294

Maritim AC, Sanders RA, Watkins JB 3rd. Diabetes, oxidative stress, and antioxidants: A review. *J Biochem Mol Toxicol.* 2003; 17:24–38

Masuda Y, Takeguchi M, Arakawa C, Sakai T, Hibi M, Tanaka S, Shigenobu K, Kasuya Y. Antihypertensive and diuretic effects of NZ-105, a novel dihydropyridine derivative. *Arch Int Pharmacodyn Ther.* 1990; 304:247-64

Matsuda H, Li Y, Yamahara J & Yoshikawa M. Inhibition of gastric emptying by triterpene saponin, momordin Ic, in mice: Roles of blood glucose, capsaicin-sensitive sensory nerves, and central nervous system. *Journal of Pharmacology and Experimental Therapeutics* 1999; 289, 729–734.

Matsuura M. Saponins in garlic as modifiers of the risk of cardiovascular disease. *Journal of Nutrition* 2001; 131,1000S–1005S.

Matsuzaka T, Shimano H, Yahagi N, Amemiya-Kudo M, Okazaki H, Tamura Y, Iizuka Y, Ohashi K, Tomita S, Sekiya M, et al.: Insulin-independent induction of sterol regulatory element-binding protein-1c expression in the livers of streptozotocin-treated mice. *Diabetes* 2004, 53:560-569

Mayes PA: Intermediary metabolism of fructose. *Am J Clin Nutr* 1993, 58:754S-765S. Mayilvaganan M.; Singh S. P.; Johari R. P. Hypocholesterolemic effect of protein prepared from Phaseolus aconitifolius (Jacq.) Indian j. exp. biol. 2004, 42(9), 904-908

McClain DA: Hexosamines as mediators of nutrient sensing and regulation in diabetes. *J Diabetes Complications* 2002, 16:72-80

McGarry JD: Banting lecture 2001: dysregulation of fatty acid metabolism in the etiology of type 2 diabetes. *Diabetes* 2002, 51:7-18

McIntyre M, Bohr DF, Dominiczak AF. Endothelial function in hypertension: the role of superoxide anion. *Hypertension* 1999;34:539-545

McKim JM Jr, Wilga PC, Breslin WJ, Plotzke KP, Gallavan RH, Meeks RG. Potential estrogenic and antiestrogenic activity of the cyclic siloxane octamethylcyclotetrasiloxane (D4) and the linear siloxane Hexamethyldisiloxane (HMDS) in immature rats using the uterotrophic assay. *Toxicol Sci* 2001;63:37-46.

McMahon FG, Vargas R. Can garlic lower blood pressure? A pilot study. *Pharmacotherapy* 1993; 13:406-407

Medford RM. Antioxidants and endothelial expression of VCAM-1: a molecular paradigm for atherosclerosis. In: Gallo LL, ed. *Cardiovascular Disease* 2. New York, NY: Plenum Press; 1995:121-127.

Mediene-Benckhor, Brousseau T, Richard F, Benhamamouch S, Amouyal P. Blood lipid concentrations and risk of myocardial infarction. *The Lancet* 2001;358 (9287):1064-1065

Mehta JL, Hu B, Chen J, Li D. Pioglitazone inhibits LOX-1 expression in human coronary artery endothelial cells by reducing intracellular superoxide radical generation. *Arterioscler Thromb Vasc Biol* 2003; 23: 2203-2208

Mehta JL, Li DY, Chen HJ, Joseph J, Romeo F. Inhibition of LOX-1 by statins may relate to upregulation of eNOS. *Biochem Biophys Res Commun* 2001; 289: 857-861

Meilhac O, Zhou M, Santanam N, Parthasarathy S. Lipid peroxides induce expression of catalase in cultured vascular cells. *J Lipid Res* 2000; 41: 1205-1213

Mekinova D, Chorvathova V, Volkovova K, Staruchova M, Grancicova E, Kivanoca J, Ondreicka R. Effect of intake of exogenous vitamins C, E and beta-carotene on the antioxidative status in kidneys of rats with streptozotocin-induced diabetes. *Nahrung*. 1995; 39:257-261

Mertens A, Verhamme P, Bielicki JK, Phillips MC, Quarck R, Verreth W, et al. Increased low-density lipoprotein oxidation and impaired high-density lipoprotein antioxidant defense are associated with increased macrophage homing and atherosclerosis in dyslipidemic obese mice: LCAT gene transfer decreases atherosclerosis. *Circulation* 2003; 107: 1640-1646

Metzger H, Lindner E. The positive inotropic-acting forskolin, a potent adenylyl cyclase activator *Arzneimittelforschung* 1981; 31:1248-1250

Michel H., Sorting Momordica Names 1995 - 2020. Multilingual Multiscript Plant Name Database - A Work in Progress. Institute of Land & Food Resources. The University of Melbourne. Australia. (2005).accessed 11.27.2006
<http://www.plantnames.unimelb.edu.au/Sorting/Momordica.html>

Miettinen T.A., Gylling H., Tuominen J., Simonen P., Koivisto V. (2004) Diabetes Care. 27(1), 53-58.

Milei J, Nunez RG, Rapaport M Cardiology. Pathogenesis of isoproterenol-induced myocardial lesions: its reaction to human 'coagulative myocytolysis'.*Cardiology*. 1978; 63(3):139-51

Mimaki Y, Kuroda M, Kameyama A, Yokosuka A & Sashida Y (1998a) Steroidal saponins from the underground parts of *Ruscus aculeatus* and their cytostatic activity on HL-60 cells. *Phytochemistry* 48, 485–493.

Mimaki Y, Yokosuka A, Kuroda M & Sashida Y Cytotoxic activities and structure-cytotoxic relationships of steroid saponins. *Biological and Pharmaceutical Bulletin* 2001; 24, 1286–1289.

Minneman KP α_1 -Adrenergic receptor subtypes, inositol phosphates, and sources of cell Ca^{2+} . *Pharmacol Rev* 1988; 40: 87-119.

Mishra D, Shukla AK, Dubey AK, Dixit AK, Singh K. Insecticidal Activity of Vegetable Oils against Mustard aphid, *Lipaphis erysimi* Kalt., under Field Condition *J. Oleo Sci.*, 2006; 55: 227-231

Misra HP, Fridovic I The role of superoxide anion in the autoxidation of ephinephrine and a simple assay for Superoxide dismutase *J.Biol.Chem.* 1972; 247:3170-3175

Modan M, Halkin H, Almog S. Hyperinsulinemia: a link between hypertension, obesity and glucose intolerance. *J Clin Invest.* 1985; 75:809-817

Mohammad AE, Razieh Yazdanparast Hypoglycemic effect of *Teucrium polium*: studies with rat pancreatic islets. *Journal of Ethnopharmacology* 2004; 95: 27-30

Mohazzab KM, Kaminski PM, Wolin MS. NADH oxidoreductase is a major source of superoxide anion in bovine coronary artery endothelium. *Am J Physiol.* 1994; 266:H2568–H2572.

Mollnau H, Wendt M, Szocs K, et al. Effects of angiotensin infusion on the expression and function of NAD (P) H oxidase and components of nitric oxide/cGMP signaling. *Circ Res* 2002;90:E58-E65

Monder C, Stewart PM, Lakshmi V, Valentino R, Burt D & Edwards CRW Licorice inhibits corticosteroid 11bdehydrogenase of rat kidney and liver: in vivo and in vitro studies. *Endocrinology* 1989; 125, 1046–1053.

Montagnani M, Chen H, Bavi VA, and Quon MJ. Insulin-stimulated activation of eNOS is independent of Ca^{2+} but requires phosphorylation by Akt at Ser 1179. *J Biol Chem* 2001; 276: 30392–30398.,

Morehouse LA, Bangerter FW, DeNinno MP, Inskeep PB, McCarthy PA, Pettini JL, Savoy YE, Sugarman ED, Wilkins RW, Wilson TC, Woody HA, Zaccaro LM & Chandler CE Comparison of synthetic saponin cholesterol absorption inhibitors in rabbits: evidence for a non-stoichiometric, intestinal mechanism of action. *Journal of Lipid Research* 1999; 40,464–474.

Moron MS, Depierre JW, Mannervik B, Levels of glutathione, glutathione reductase and glutathione s transferase activities in rat lung and liver fractions in vitro. *Biochimica Biophysica Acta* 1979; 582:67-78

Morrissey JP & Osbourn AE Fungal resistance to plant antibiotics as a mechanism of pathogenesis. *Microbiological and Molecular Biological Reviews* 1999; 63, 708–724.

MR Srinivasan & K Srinivasan. Hypocholesterolemic efficacy of garlic – smelling flower *Adenocalymma alliaceum* Miers. In experimental rats. *Journal of Experimental Biology* 1995, 33 (1):64-6.

Mujoo K, Haridas V, Hoffmann JJ, Wachter GA, Hutter LK, Lu Y, Blake ME, Jayatilake GS, Bailey D, Mills GB & Guterman JU Triterpenoid saponins from *Acacia victoriae* (Bentham) decrease tumor cell proliferation and induce apoptosis. *Cancer Research* 2001; 61, 5486–5490.

Mukherjee S, Garg S, Talwar GP. Early post implantation contraceptive effects of a purified fraction of neem (*Azadirachta indica*) seeds, given orally in rats: possible mechanisms involved. *Journal of Ethnopharmacology* 1999 Nov30;67(3) 287-296

Muraganandan K, Srinivasan S, Gupta PK, and Lal J . Effect of mangiferin on hyperglycemia and atherogenicity in streptozocin diabetic rats. *J Ethnopharmacol* 2005; 97: 497-501.

Murakami, T., Emoto, A., Matsuda, H., Yoshikawa, M., 2001. Medicinal foodstuffs. Part XXI. Structures of new cucurbitane-type triterpene glycosides, goyaglycosides-a, -b, -c, -d, -e, -f, -g, and -h, and new oleanane-type triterpene saponins, goyasaponins I, II, and III, from the fresh fruit of Japanese *Momordica charantia* L. *Chemical & Pharmaceutical Bulletin (Tokyo)* 49, 54–63.

N. Kamalakkannan , P. Stanely Mainzen Prince The Effect of *Aegle marmelos* Fruit Extract in Streptozotocin Diabetes A Histopathological Study Journal of Herbal Pharmacotherapy :_2006;5(3):_87 – 96

Nadkarni AK, Nadkarni KM. Cucurbitaceae. Indian Materia Medica. 2nd edition. Bombay: Popular Book Depot; 1982.p.755.

Nagai Y, Nishio Y, Nakamura T, Maegawa H, Kikkawa R, Kashiwagi A: Amelioration of high fructose-induced metabolic derangements by activation of PPARalpha. *Am J Physiol Endocrinol Metab* 2002, 282:E1180-1190.

Nair, RB. Nair KV, Nair AR, Nair CPR. Antidiabetic activity of Amrithadi churnam. *Ancient Science of Life*, 1992; Vol. No. XII Nos 1 & 2, 280-85.

Nakamura K, Oka M, Shirai M, Igarashi Y, Kojima K, Kaneko O, Hamada N, Mera J, Masaoka H, Nagase M. Source of reactive oxygen species in anti-Thy1 nephritis. *Ren Fail* 1998; 20: 399-405.

Narasimhan S, Kannan S, Ilango K, Maharajan G. Antifeedant activity of *Momordica dioica* fruit pulp extracts on *Spodoptera litura*. *Fitoterapia*. 2005; 76 (7-8): 715-7.

Nath D, Sethi N, Singh RK, Jain AK. Commonly used Indian abortifacient plants with special reference to teratologic effects in rats. *Journal of Ethnopharmacology* 1992 Apr;36 (2):147-154

Nath, N., Chari, S.N., and Rathi, A.B. (1984) Superoxide dismutase in diabetic polymorphonuclear leukocytes. *Diabetes* 33, 586-589.

Neri, S., Bruno, C.M., Raciti, C., Dangelo, G., Damico, R.,and Cristaldi, R. (1994) Alteration of oxide reductive and haemostatic factors in type 2 diabetics. *Journal of Internal Medicine* 236, 495-500

Ness G.C., Chambers C.M. Feedback and hormonal regulation *Proc. Exp. Biol. Med* 2000; 224 (1), 8-19.

Ness G.C., Gertz K.R. Characterization of the rat LDL receptor 5'-flanking region. *Exp. Biol. Med* 2004; 229 (5), 407-411.

Ness G.C., Gertz K.R. Hepatic HMG-CoA reductase expression and resistance to dietary cholesterol. *Exp. Biol. Med* 2004; 229 (5), 412-416.

Ness G.C., Wiggins L., Zhao Z. (1994) *Arch. Biochem. Biophys.* 309 (1), 193-194.

Ng, T.B., Chan, W.Y., Yeung, H.W., 1992. Proteins with abortifacient, ribosome inactivating, immunomodulatory, antitumor and anti-AIDS activities from Cucurbitaceae plants. *General Pharmacology* 23, 579-590.

Nguyen TT. The cholesterol-lowering action of plant stanol esters. *J Nutr.* 1999; 129:2109-2112.

Nicolas G, Oulad-ali A, Guillaume D, Lobstein A, Weniger B, Anton R. Triterpenoid saponins from the root of *Sideroxylon foetidissimum*. *Phytochemistry* 1995; 38:225-228

Nishikawa T, Edelstein D, Du XL, Yamagishi S, Matsumura T, Kaneda Y, Yorek MA, Beebe D, Oates PJ, Hammes HP, et al. Normalizing mitochondrial superoxide production blocks three pathways of hyperglycaemic damage. *Nature*. 2000; 404:787-790

Nisreen M. Al-Dissi, Abdulazim S. Salhab, Hameed A. Al- Hajj. Effects of Inula viscosa leaf extracts on abortion and implantation in rats. *Journal of Ethnopharmacology* 2001 Sep; 77(1):117-121

Nissen S, Sharp RL, Panton L, Vukovich M., Trappe S. W., Fuller J. C. Jr β -hydroxy- β -methylbutyrate (HMB) supplementation in humans is safe and may decrease cardiovascular risk factors. *J Nutr.* 2000; 130:1937-1945.

Noone EJ, Noone EJ, Roche HM, Nugent AP & Gibney MJ. The effect of dietary supplementation using isomeric blends of conjugated linoleic acid on lipid metabolism in healthy human subjects. *Br J Nutr.* 2002; 88:243-251.

Obayashi K, Nagasawa K, Mandel WJ. Cardiovascular effects of ajmaline. Am Heart J 1976; 92:487-496

Obeid LM, Linardic CM, Karolak LA, Hannun YA: Programmed cell death induced by ceramide. *Science* 1993, 259:239-247

Oberg BP, McMenamin E, Lucas FL, McMonagle E, Morrow J, Ikizler TA, Himmelfarb J. Increased prevalence of oxidant stress and inflammation in patients with moderate to severe chronic kidney disease. *Kidney Int.* 2004; 65:1009-1016

Oberley LW: Free radical and diabetes. *Free Radic Bio Med* 1988, 5:113-124.

Oberly LW: Free radicals and diabetes. *Free Radic Biol Med* 5:113-124, 1988

Obrosova I, Fathallah L, Greene D. Early changes in lipid peroxidation and antioxidative defense in rat retina. *Eur J Pharm.* 2000; 398:139-146

Oda K, Matsuda H, Murakami T, Katayama S, Ohgitani T & Yoshikawa M (2000) Adjuvant and haemolytic activities of 47 saponins derived from medicinal and food plants. *Biological Chemistry* 381, 67-74.

Offermann MK, Medford RM. Antioxidants and atherosclerosis: a molecular perspective. *Heart Dis Stroke.* 1994; 3:52-57.

Offiah VN, Anyanwu II. Abortifacient activity of an aqueous extract of Spondias mombinleaves. *Journal of Ethnopharmacology* 1989 ;26(3):317-320

Ojha, J.K. Bajpai, H.s. and Shanna. P.V. (1978) Hypoglycemic effect of *Pterocarpus marsupium* Roxb (Vijayasar). *J. Res. Ind. Med. Yoga & Homoeo.*, 13, 4.

Ortiz-Alonso, F. Javier, Herman, William H., Gertz, Barry J., Williams, Vanessa C., Smith, Marla J., Halter, Jeffrey B. (1991/11)."Effect of an oral [alpha]2-adrenergic blocker (MK-912) on pancreatic islet function in non-insulin-dependent diabetes mellitus." *Metabolism* 40(11): 1160-1167.

Ouchi Y, Han SZ, Kim S, Akishita M, Kozaki K, Toba K, and Orimo H. Augmented contractile function and abnormal Ca^{2+} handling in the aorta of Zucker obese rats with insulin resistance. *Diabetes* 45: S55-S58, 1996.

P.-E. Andersson, J. Johansson, C. Berne., Effect of selective α 1 and β 1-adreno-receptor blockade on lipoprotein and carbohydrate metabolism in hypertensive subjects, with special emphasis on insulin sensitivity. *J Hum Hypertens* 8 (1994), pp. 219-226

Pagano PJ, Ito Y, Tornheim K, Gallop PM, Tauber AI, Cohen RA. An NADPH oxidase superoxide-generating system in the rabbit aorta. *Am J Physiol.* 1995; 268:H2274-H2280.

Papaccio G, Pisanti FA, Latronico MV, Ammendola E, Galdieri M. Multiple low dose and single high dose treatments with streptozotocin do not generate nitric oxide. *J Cell Biochem* 2000; 77(1):82-91

Parkash, A., Ng, T.B., Tso, W.W., 2002. Purification and characterization of charantin, a napin-like ribosome-inactivating peptide from bitter gourd (*Momordica charantia*) seeds. *Journal of Peptide Research* 59, 197–202.

Pawar R, Gopalakrishnan C & Bhutani KK (2001) Dammarane triterpene saponin from Bacopa monniera as the superoxide inhibitor in polymorphonuclear cells. *Planta Medica* 67,752–754.

Persaud SJ, Al-Majed H, Raman A, Jones PM. Gymnema Sylvestre stimulates insulin release invitro by increased membrane permeability. *J. Endocrinol.* 1999, 163: 207 – 12

Petit PR, Sauvaire Y, Ponsin G, Manteghetti M, Fave A & Ribes G (1993) Effects of a fenugreek seed extract on feeding behaviour in the rat: metabolic endocrine correlates. *Pharmacology Biochemistry and Behaviour* 45, 369–374.

Petkov V. Plants and hypotensive, antiatheromatous and coronarodilatating action. *Am J Chin Med* 1979; 7:197-236

Petrowicz O, Gebhardt R, Donner M, Effects of artichoke leaf extract (ALE) on lipoprotein metabolism in vitro and in vivo [abstract]. *Atherosclerosis*. 1997; 129:147.

Pinelli A, Trivulzio S, Tomasoni L, Brenna S, Bonacina E, Accinni R.,Isoproterenol-induced myocardial infarction in rabbits. Protection by propranolol or labetalol: a proposed non-invasive procedure. *Eur J Pharm Sci.* 2004; 23 (3):277-85

Piyachaturawat P, Glinsukon T, Chanjarunee. Antifertility effect of Citrus hystrix DC. *Journal of Ethnopharmacology* 1985 Mar;13(1):105-110

Podolak I, Elas M & Cieszka K (1998) In vitro antifungal and cytotoxic activity of triterpene saponosides and quinoid pigments from *Lysimachia vulgaris* L. *Phytotherapy Research* 12, S70–S73.

Poitout V, Robertson RP. Minireview: Secondary beta-cell failure in type 2 diabetes-a convergence of glucotoxicity and lipotoxicity. *Endocrinology*. 2002; 143: 339-42

Potter SM, Jimenez-Flores R, Pollack J, LoneTA&Berber-Jimenez MD (1993) Protein saponin interaction and its influence on blood lipids. *Journal of Agricultural and Food Chemistry* 41, 1287–1291.

Prakash AO, Mathur R, Sangeeta Shukla R. Effect of butanolic extract of pueraria tuberosa DC. on the estrous cycle of adult rats. *Indian Journal of Pharmacology* 1987; 19: 49-53

Prakash AO, Mathur R, Tewari RK. Non-hormonal post-coital contraceptive action of neem oil in rats. *Journal of Ethnopharmacology* 1988; 23: 53-59

Prakash AO, Mathur R. Studies on oestrous cycle of albino rats: Response to embelia ribes extracts. *Planta Medica* 1979;36:131-41.

Prasad K. Dietary flax seed in prevention of hypercholesterolemic atherosclerosis. *Atherosclerosis*. 1997; 132:69-76.

Premakumari P, Rathinam K, Santhakumari G. Antifertility activity of plumbagin. *Indian Journal Of Medical Research* 1977 Jun;65(6):829-838

Qin B, Nagasaki M, Ren M, Bajotto G, Oshida Y and Sato Y. Cinnamon extract prevents the insulin resistance induced by a high-fructose diet. *Horm Metab Res* 2004 Feb;36(2): 119-25

Quin G-W & Xu R-S (1998) Recent advances in bioactive natural products from Chinese medicinal plants. *Medical Research Reviews* 18, 375–382.

Quin G-W & Xu R-S (1998) Recent advances in bioactive natural products from Chinese medicinal plants. *Medical Research Reviews* 18, 375–382

R. Balaraman, Late Komal Mehta, A.H. Amin, P.A. Bafna, O.D. Gulati
Effect of fruits of *Moringa oleifera* on the lipid profile of normal and hypercholesterolaemic rabbits *Journal of Ethnopharmacology* 86 (2003) 191–195

RAB. McLeay, T.J. Stellard, R.D.S. Watson and W.A. Littler , The effects of Nifedipine on arterial pressure and reflex cardiac control. *Circulation* 67 (1983), pp. 1084–1090

Rajagopalan S, Kurz S, Munzel T, et al. Angiotensin II-mediated hypertension in the rat increases vascular superoxide production via membrane NADH/NADPH oxidase activation: contributions to alterations of vasomotor tone. *J Clin Invest* 1996; 97:1916-1923

Raman A and Lau C. (1996) Anti-diabetic properties and phytochemistry of *Momordica charantia* L. (Cucurbitaceae). *Phytomedicine*, 2(4), 349-362.

Raman, A., Lau, C., 1996. Anti-diabetic properties and phytochemistry of *Momordica charantia* L. (Cucurbitaceae). *Phytomedicine* 2, 349–362

Rang HP, Rotter JM, Dale MM. *Pharmacology*. New York, Churchill Livingstone 1999; 388

Rao AV & Sung M-K (1995) Saponins as anticarcinogens. *Journal of Nutrition* 125, 717S–724S.

Rao AV; Lycopene, tomatoes, and the prevention of coronary heart disease. *Exp Biol Med (Maywood)* 227:908–913, 2002

Rao VS, Dasaradhan P, Krishnaiah KS. Antifertility effect of some indigenous plants. *Indian Journal of Medical Research*. 1979; 70:517-520

Rauscher F, Sanders R, Watkins JI. Effects of coenzyme Q10 treatment on antioxidant pathways in normal and streptozotocin-induced diabetic rats J Biochem Mol Toxicol. 2001; 15:41–46

Razieh Yazdanparast, Mohammad Ali Esmaeili, Javad Ashrafi Helan *Teucrium polium* Extract Effects Pancreatic Function of Streptozotocin Diabetic Rats: A Histopathological Examination Iranian Biomedical Journal 2005; 9 (2): 81-85

Reaven GM, Ho H, Hoffmann BB. Somatostatin inhibition of fructose-induced hypertension. *Hypertension*. 1989; 14:117-120

Recchia J, Lurantos MHA, Amsden JA, Storey J & Kensil CR (1995) A semisynthetic Quillaja saponin as a drug delivery agent for aminoglycoside antibiotics. *Pharmaceutical Research* 12, 1917–1923.

Reddy GT, Kumar BR, Mohan GK. Anithyperglycemic activity of *Momordica dioica* fruits in alloxan-induced diabetic rats Nigerian Journal of Natural Products and Medicine. 2005; 9: 33-34.

Reiser S. Effects of dietary sugars in metabolic risk factors associated with heart disease. *Nutr Health* 1985; 3:203–16

Reynolds K, Chin A, Lees KA, A meta-analysis of the effect of soy protein supplementation on serum lipids. *Am J Cardiol*. 2006; 98:633-640.

Richard W, Nesto, Stuart Z, Acute Myocardial Infarction in Diabetes Mellitus *Circulation*. 1998; 97:12-15

Riemersma RA, Wood DA, Macintyre CCA, Elton RA, Gey KF, Oliver MF. Risk of angina pectoris and plasma concentrations of vitamins A, C, and E and carotene. *Lancet*. 1991; 337:1-5

Rifai N, John J, Albers Paul SB. Fundamentals of clinical chemistry , 5th ed. Lipids, lipoproteins and apolipoproteins. WB Saunders Company: Philadelphia; 2001. p. 462-93

Riguera R (1997) Isolating bioactive compounds from marine organisms. *Journal of Marine Biotechnology* 5, 187–193.

Rodwell VW, Nordstrom JL, Mitschelen JJ (1976) Regulation of HMG-CoA reductase. In: Paoletti R, Kritchevsky D (eds) *Advances in Lipid Research* Vol 14:1–74, Academic Press, New York

Ronald G. Victor (2005) Review Of Clinical Hypertension. American Society Of Hypertension.

Rosane Maria T. Medeiros, Silvana L. Gorniak, Jose Lusis Guerra. Fetotoxicity and reproductive effects of monocrotaline in pregnant rats. *Journal of Ethnopharmacology* 2000; 69:181-188

Rosenson RS, Brown AS. Statin use in acute coronary syndromes: cellular mechanisms and clinical evidence. *Curr Opin Lipidol* 2002;13: 625–630

Ross R. Cell biology of atherosclerosis. *Annu Rev Physiol.* 1995; 57:791–804.

Rudakewich M, Ba F & Benishin CG (2001) Neurotrophic and neuroprotective actions of Ginsenosides Rb(1) and Rg(1). *Planta Medica* 67, 533–537.

Rueckschloss U, Quinn MT, Holtz J, Morawietz H. Dose-dependent regulation of NAD(P)H oxidase expression by angiotensin II in human endothelial cells: protective effect of angiotensin II type 1 receptor blockade in patients with coronary artery disease. *Arterioscler Thromb Vasc Biol* 2002; 22: 1845–1851

Rui YC . Advances in pharmacological studies of silymarin . *Mem Inst Oswaldo Cruz.* 1991; 86(suppl) 2:79-85

S. Kageyama, J. Yamamoto, A. Mimura., Doxazosin improves insulin sensitivity in hypertensive patients. *Clin Ther* 15 (1993), pp. 829–837

Sacks David B. (1989) Carbohydrates. In: Tietze Text book of clinical chemistry. 5th ed. Philadelphia: WB Saunders Company

Saksena SK. Study of antifertility activity of the leaves of Momordica linn (Karela). Indian Journal of Physiology and Pharmacology 1971 Apr;15(2):79-80

Salonen JF, Salonen R, Seppanen K, Kantola M, Parviainene M, Alfthan G, Maenpaa PH, Taskinen E, Rauramaa R. Relationship of serum selenium and antioxidants to plasma lipoproteins, platelet aggregability and prevalent ischaemic heart disease in Eastern Finnish men. *Atherosclerosis* 1988; 70:155-160

Salonen JT, Salonen R, Penttila I, Herranen J, Jauhainen M, Kantola M, Lappetelainen R, Maenpaa PH, Alfthan G, Puska P. Serum fatty acids, apolipoproteins, selenium and vitamin antioxidants and the risk of death from coronary artery disease. *Am J Cardiol.* 1985; 56:226-231

Saltykow S (1908) Die experimentell erzeugten Arterienveränderungen in ihrer Beziehung zu Atherosklerose und verwandten Krankheiten des Menschen. *Zentralbl Allgem Pathol Pathol Anat* 19:321–368

Sandu OA, Ito M, and Begum N. Selected contribution: insulin utilizes NO/cGMP pathway to activate myosin phosphatase via Rho inhibition in vascular smooth muscle. *J Appl Physiol* 91: 1475–1482, 2001.

Sangeeta shulka. Post coital contraceptive action of pueraria tuberosa DC. Extract in rats. *Phytotherapy Research* 1996; 10: 95-99

Santini, S.A., Marra, G., Giardina, B., Cotroneo, P., Mordente, A., Martorana, G.E., Manto, A., and Ghirlanda, G. (1997) Defective plasma antioxidant defenses and enhanced susceptibility to lipid peroxidation in uncomplicated IDDM. *Diabetes* 46, 1853-1858.

Sarma HN, Mahanta HC. Modulation of morphological changes of endometrial surface epithelium by administration of composite root extract in albino rat. *Contraception* 2000; 62(1):51-54

Sathyavati GV. Some traditional medical systems and practices of global importance Indian J Med Res 1982;76:1-26

Sato, Y., Hotta, N., Sakamoto, N., Matsuoka, S., Ohishi, N., and Yagi, K. Lipid peroxide level in the plasma of diabetic patients. *Biochemical Medicine and Metabolic Biology* 1979; 21(1), 104-107.

Sato, Y., Hotta, N., Sakamoto, N., Matsuoka, S., Ohishi, N., Sauvaire, Y., Petit, P., Broca, C., Manteghetti, M., Baissac, Y., Fernandez- Alvarez, J., Gross, R., Roye, M., Leconte, A., Gomis, R., Ribes, G., 1998. 4-Hydroxyisoleucine: a novel amino acid potentiator of insulin secretion. *Diabetes* 47, 206-210.

Scheuer H, Gwinner W, Hohbach J, Grone EF, Brandes RP, Malle E, Olbricht CJ, Walli AK, Grone HJ. Oxidant stress in hyperlipidemia-induced renal damage. Am J Physiol Renal Physiol 2000; 278: F63-74.

Schleicher, E.D., Wagner, E., and Nerlich, A.G. (1997) Increased accumulation of the glycoxidation product N(epsilon)-(carboxymethyl)lysine in human tissues in diabetes and aging. *The Journal of Clinical Investigation* 99, 457-468.

Schmidt H. Effect of papain on different phases of prenatal ontogenesis in rats. Reprod Toxicol 1995; 9:49-55.

Schreier LE, Sanguinetti S, Mosso H, Lopez GI, Siri L, Wikinski RL. Low-density lipoprotein composition and oxidability in atherosclerotic cardiovascular disease. *Clin Biochem* 1996; 29: 479-487

Schussler M, Holzl J, Fricke U. Myocardial effects of flavonoids from Crataegus species. *Arzneimittelforschung* 1995; 45:842-845

Schwabe, U. Arzneimittel der besonderen Therapierichtungen (Naturheilmittel). In *Arzneiverordnungs-Report 1998 Edited by Schwabe U, Paffrath D Berlin: Springer*, 1999. pp. 621-656.

Schwartz CJ, Valente AJ, Sprague EA, Kelley JL, Nerem RM (1991) The pathogenesis of atherosclerosis: an overview. *Clin Cardiol* 14:1-16

Sewter C, Berger D, Considine RV, Medina G, Rochford J, Ciaraldi T, Henry R, Dohm L, Flier JS, O'Rahilly S, Vidal-Puig AJ: Human obesity and type 2 diabetes are associated with alterations in SREBP1 isoform expression that are reproduced ex vivo by tumor necrosis factor-alpha. *Diabetes* 2002, 51:1035-1041

Shanmugasundaram ER, Rajeswari G, Baskaran K, Rajesh Kumar BR, Radha Shanmugasundaram K, Kizar Ahmath B. Use of *Gymnema Sylvestre* leaf extract in the control of blood glucose in insulin-independent diabetes mellitus. *J Ethnopharmacol.* 1990; 30: 281 – 94

Shanmugasundaram, E.R.B. Rajeswari G, Baskaran K (1990) Possible regeneration of the islets of Langerhans in streptozotocin-diabetic rats given *Gymnema sylvestre* leaf extracts. *J.Ethnopharmacology* 30: 265-279.

Shanmugasundaram, E.R.B. Rajeswari G, Baskaran K (1990) Use of *Gymnema sylvestre* leaf extract in the control of blood glucose in insulin-dependent diabetes mellitus. *J. Ethnopharmacology*, 30:281-294.

Shanmugasundaram, K.R. and Panneerselvam, C. (1981) The insulinotropic activity of *Gymnema sylvestre* R. Br., an Indian medicinal herb used in controlling diabetes mellitus. *Pharmacological Research Communications*, 13:475-486.

Shao G, You ZH, Cu XC, Wang XT, Zhu DC, Wang SY, Liao SZ, Shi XZ, Huang JR. (1990). Treatment of hyperlipidemia with *Cordyceps sinensis*. A double blind placebo control trial. *Inter J Oriental Med.* 15:77-80.

Shapiro DJ, Rodwell VW (1969) Diurnal variation and cholesterol regulation of hepatic HMG-CoA reductase activity. *Biochem Biophys Res Commun* 37:687–872
Sharma SB, Nazir A, Prabu KM, Murthy PS, Dev G, Hypoglycemic and hypolipidemic effect of ethanolic extract of seeds of *Eugenia jambolana* in alloxan-induced diabetic rabbits. *Journal of Ethnopharmacology*. 2003; 85: 201-6.

Sharma, R.D. (1986) Effect of fenugreek seeds and leaves on blood glucose and serum insulin responses. *Nutrition Research*, 6: 1353-1364.

Sharma, R.D. Raghuram TC, Rao NS. (1990) Effect of fenugreek seeds on blood glucose and serum lipids in Type I diabetes. *Eur. J. Clin. Nutr.* 44: 301-306.

Shefer S, Hauser S, Lapar V, Mosbach EH (1972) Diurnal variation of HMG CoA reductase activity in rat intestine. *J Lipid Res* 13:571–573

Shimabukuro M, Higa M, Zhou YT, Wang MY, Newgard CB, Unger RH: Lipoapoptosis in beta-cells of obese prediabetic fa/fa rats. Role of serine palmitoyl transferase overexpression. *J Biol Chem* 1998, 273:487-490

Shimabukuro M, Zhou YT, Levi M, Unger RH: Fatty acid-induced beta cell apoptosis: a link between obesity and diabetes. *Proc Natl Acad Sci USA* 1998, 95:2498-2502

Shimizu S, Ugi S, Maegawa H, Egawa K, Nishio Y, Yoshizaki T, Shi K, Nagai Y, Morino K, Nemoto K, et al.: Protein-tyrosine phosphatase 1B as new activator for hepatic lipogenesis via sterol regulatory element-binding protein-1 gene expression. *J Biol Chem* 2003, 278:43095-43101

Shimomura I, Bashmakov Y, Horton JD: Increased levels of nuclear SREBP-1c associated with fatty livers in two mouse models of diabetes mellitus. *J Biol Chem* 1999; 274:30028-30032.

Shimoyamada M, Ikeda S, Ootsubo R & Watanabe K (1998) Effects of soybean saponins on chymotryptic hydrolyses of soybean proteins. *Journal of Agricultural and Food Chemistry* 46, 4793–4797.

Shivalingappa H, Satyanarayan ND, Purohit MG, Sharanabasappa A, Patil SB. Effect of ethanol extract of *Rivea hypocrateriformis* on the estrous cycle of the rat. *Journal of Ethnopharmacology* 2002 82(1):11-17

Shivalingappa H, Satyanarayan ND, Purohit MG, Sharanabasappa A, Patil SB. Effect of ethanol extract of *Rivea hypocrateriformis* on the estrous cycle of the rat. *J Ethnopharmacol* 2002;82:11-7.

Shivalingappa H, Satyanarayan ND, Purohit MG. Antiimplantation and pregnancy interruption efficacy of *Rivea hypocrateriformis* in the rat. *Journal of Ethnopharmacology* 2001 Mar3;74(3):245-249

Shivayogi P. Hiremath, Shanmuka Swamy HK, Shrishailappa M. Badami, Saraswathi B. Patil, Ramesh L, Londonkar. Postcoital antifertility activity of the plant *stringa densiflora* (scrophulariaceae) on female albino rats. *International Journal of Pharmacognosy* 1996; 34:1-5.

Shore B, Shore V (1976) Rabbits as a model for the study of hyperlipoproteinemia and atherosclerosis. In: Day CE (ed) *Atherosclerosis Drug Discovery*, Plenum Press, New York and London, pp 123–141

Shreedhar CS; Pai KSR; Vaidya VP, Postcoital antifertility activity of the root of *momordica dioica roxb* Indian *Journal of Pharmaceutical Sciences*. 2001 Nov-Dec; 63(6): 528-31.

Shrishailappa Badmi, Aneesh R, Sankar S, Sathish kumar MN, Suresh B, Rajan S. Antifertility activity of *Derris brevipes* variety *coriacea*. *Journal of Ethnopharmacology* 2003; 84:99-104

Shukla S, Mathur R, Prakash AO. Antifertility profile of the aqueous extract of *Moringa oleifera* roots. *Journal of Ethnopharmacology* 1988 Jan; 22(1):51-62

Siegel G, Walter A, Engel S, Pleiotropic effects of garlic. *Wien Med Wochenschr* 1999; 149:217-224.

Silverberg AB, Shah SD, Haymed MW. Norepinephrine: hormone and neurotransmitter in man. *Am J Physiol*. 1978; 234:252-256

Sinclair, A.J., Girling, A.J., Gray, L., Le-Guen, C., Lunec, J., and Barnett, A.H. (1991) Disturbed handling of ascorbic acid in diabetic patients with and without microangiopathy during high dose ascorbate supplementation. *Diabetologia* 34, 171-175.

Singh RB, Niaz MA, Rastogi SS, Rastogi S: Usefulness of antioxidant vitamins in suspected acute myocardial infarction (the Indian experiment of infarct survival-3). Am J Cardiol 77: 232–236, 1996

Singh RB, Niaz MA, Rastogi SS, Rastogi S: Usefulness of antioxidant vitamins in suspected acute myocardial infarction (the Indian experiment of infarct survival-3). Am J Cardiol 77: 232–236, 1996

Singh RB, Niaz MA, Sharma JP, Kumar R, Bishnoi I, Begom R: Plasma levels of antioxidant vitamins and oxidative stress in patients with acute myocardial infarction. Acta Cardiol 49: 441–452, 1994

Sipes IG., El Sisi AE., Sim WW, Mobley SA, Earnest DL. 1991. Reactive oxygen species in the progression of CCl₄-induced liver injury. *Adv. Exp. Med. Biol.* 283: 489–497.

Sisi, AE.,Earnest DL., Sipes IG. 1993. Vitamin A potentiation of carbon tetrachloride hepatotoxicity: role of liver macrophages and active oxygen species. *Toxicol. Appl. Pharmacol.* 119: 295–301

Skyrme-Jones RA, O'Brien RC, Berry KL, Meredith IT. Vitamin E supplementation improves endothelial function in type I diabetes mellitus: a randomized, placebo-controlled study. *J Am Coll Cardiol.* 2000; 36:94–102

Slater TF, Sawyer BC. The stimulatory effect of carbon tetrachloride and other halogenalkanes on peroxidative reactions in rat liver fractions in vitro. Biochem J 1971; 123; 805-15

Smith WM. Treatment of mild hypertension: results of a ten-year intervention trial. Circ Res 1977; 40:198-205

Soriano FG, Virag L, Szabo C. Diabetic endothelial dysfunction: role of reactive oxygen and nitrogen species production and poly (ADP-ribose) polymerase activation. *J Mol Med.* 2001; 79:437–448.

Southon S, Johnson IT, Gee JM & Price KR (1988) the effect of Gypsophylla saponins in the diet on mineral status and plasma cholesterol concentration in the rat. British Journal of Nutrition 59, 49–55.

Sowers JR, Epstein M, Frohlich ED. Diabetes, hypertension, and cardiovascular disease: an update. Hypertension 2001; 37:1053-1059

Sreedhar CS. Investigation of the roots of Momordica Roxb and some synthetic heterocyclic compounds for Antifertility and other Biological activity [dissertation]. National college of Pharmacy: Kuvempu University, Shimoga; 2002.

Sreekumar Sulfi; Adam D. Timmis. Heart Failure Complicating Acute Myocardial Infarction in Patients with Diabetes: Pathophysiology and Management Strategies
Br J Diabetes Vasc Dis. 2006; 6(5):191-196.

Srivatsava, Y. (1985) Hypoglycemic and life-prolonging properties of *Gymnema sylvestre* extract in diabetic rats. *Israel J. Med. Sci.* 21:540-542.

Standley P, Zhang F, Zayas RM, Muniyappa R, Walsh MF, Cragoe E, and Sowers JR. IGF-1 regulation of Na^+/K^+ -ATPase in rat arterial smooth muscle. *Am J Physiol Endocrinol Metab* 273: E113–E121, 1997.

Standley PR, Ram J, and Sowers JR. Insulin attenuation of vasopressin-induced calcium responses in arterial smooth muscle from Zucker rats. *Endocrinology* 133: 1693–1699, 1993

Standley PR, Ram JL, and Sowers JR. Insulin attenuate vasopressin-induced calcium transients and a voltage dependent calcium response in rat vascular smooth muscle cells. *J Clin Invest* 88: 1230–1236, 1991

Standley PR, Rose K, and Sowers JR. Increased basal arterial smooth muscle glucose transport in the Zucker rat. *Am J Hypertens* 8: 48–52, 1995

Stolzenberg SJ & Parkhurst RM (1976) Blastocidal and contraceptive actions by an extract and compounds from endod (*Phytolacca dodecandra*). *Contraception* 14, 39–51.

Stolzenberg SJ & Parkhurst RM (1976) Blastocidal and contraceptive actions by an extract and compounds from endod (*Phytolacca dodecandra*). *Contraception* 14, 39–51.

Story JA, LePage SL, Petro MS, West LG, Cassidy MM, Lightfoot FG, Vahouny GV. Interactions of alfalfa plant and sprout saponins with cholesterol in vitro and in cholesterol-fed rats. *Am J Clin Nutr.* 1984;39:917-929

Subbalakshmi G, Naik. M. Indigenous foods in the treatment of diabetes mellitus. *Bombay hospital journal* 2001 Oct; 43(4).

Suganthan D, Santhakumari G. Antifertility activity of an indigenous preparation Ayush-47. *Indian Journal of Medical Research.* 1979; 70:504-51.

Suzuki M, Hirose J, Asakura Y, Sato A, Kageyama A, Harano Y, Omae T. Insulin insensitivity in nonobese, nondiabetic essential hypertension and its improvement by an alpha 1-blocker (bunazosin). *Am J Hypertens.* 1992 ;5 (12 Pt 1):869-74.

Suzuki M, Nomura C, Odaka H, Ikeda H. Effect of an insulin sensitizing agent, pioglitazone, on hypertension in fructose-drinking rats. *Jpn J Pharmacol.* 1997; 74:297–302

SW Rabkin, Mechanisms of action of adrenergic receptor blockers on lipids during antihypertensive drug treatment *J Clin Pharmacol.* 1993; 33: 286-291

SW Rabkin, MW Huff, C Newman, D Sim and SG Carruthers, Lipids and lipoproteins during antihypertensive drug therapy. Comparison of doxazosin and atenolol in a randomized, double-blind trial: the Alpha Beta Canada Study. *Hypertension*, 24, 241-248, 1994

Szkudelski T. The mechanism of alloxan and Streptozotocin action in β -cells of the pancreas. *Physiol Res* 2001; 50:536-546

Tahir KE, Ashour MM, al-Harbi MM. The cardiovascular actions of the volatile oil of the black seed (*Nigella sativa*) in rats: elucidation of the mechanism of action. *Gen Pharmacol* 1993; 24:1123-1131.

Takai M, Suido H, Tanaka T, Kotani M, Fujita A, Takeuchi A, Makino T, Sumikawa K [LDL-cholesterol-lowering effect of a mixed green vegetable and fruit beverage containing broccoli and cabbage in hypercholesterolemic subjects]. *Rinsho Byori*. 2003; 51:1073-1083.

Tammi A, Ronnemaa T, Gylling H, Plant stanol ester margarine lowers serum total and low-density lipoprotein cholesterol concentrations of healthy children: the STRIP project. Special Turku Coronary Risk Factors Intervention Project. *J Pediatr*. 2000; 136:503-510

Tamura K, Honda H, Mimaki Y, Sashida Y & Kogo H (1997) Inhibitory effects of a new steroid saponin, OSW-1, on ovarian function in rats. *British Journal of Pharmacology* 121,1796–180

Taniyama Y, Griendling KK. Reactive oxygen species in the vasculature: Molecular and cellular mechanisms. *Hypertension*. 2003; 42:1075–1081

Temme EH, Van Hoydonck PG, Schouten EG, Kesteloot, H. Effects of a plant sterol-enriched spread on serum lipids and lipoproteins in mildly hypercholesterolaemic subjects. *Acta Cardiol*. 2002;57:111-115.

Terao, JI. Asano, S. Matsushita. 1984. High-performance liquid chromatographic determination of phospholipid peroxidation products of rat liver after carbon tetrachloride administration. *Arch. Biochem. Biophys.* 235: 326–333

Tesfamariam, B. (1994) Free Radicals in Diabetic Endothelial Cell Dysfunction. *Free Radical Biology and Medicine* 16, 383-391.

Tewary PV, Chaturvedi C & Pandey VB (1973) Antifertility activity of Costus speciosus Sm. *Indian Journal of Pharmacology* 35, 114–115.

Thompson PL, Robinson JS. Stroke after acute myocardial infarction: relation to infarct size. *Br Med J*. 1978; 2 (6135):457-9.

Tirupattur PR, Ram JL, Standley PR, and Sowers JR. Regulation of Na^+,K^+ -ATPase gene expression by insulin in vascular smooth muscle cells. *Am J Hypertens* 6: 626–629, 1993

Tsai, E.C., Hirsch, I.B., Brunzell, J.D., and Chait, A. (1994) Reduced plasma peroxy radical trapping capacity and increased susceptibility of LDL to oxidation in poorly controlled IDDM. *Diabetes* 43, 1010-1014.

Tsang-Pai Liu, Chyou-Shen Lee, Shorong-Shii Liou, I-Min Liu and Juei-Tang Cheng. Improvement of insulin resistance by Acanthopanax senticosus root in fructose-rich chow-fed rats .Clinical and Experimental Pharmacology and Physiology 2005August; 32(8): Page 649

Tuba Z, Bardin CW, Danesi A, Francescs-Cziege E, Molnar C, Csorgei J, et al . Synthesis and biological activity of a new progestogen, 16-methylene-17alpha-hydroxy-18-methyl-19-norpregn-4-ene-3, 20-dione acetate. *Steroids* 2000;65:266-74

Turi S, Nemeth I, Torkos A, Saghy L, Varga I, Matkovics B, Nagy J. Oxidative stress and antioxidant defense mechanism in glomerular diseases. *Free Radic Biol Med* 1997; 22: 161-8

Turko IV, Marcondes S, Murad F. Diabetes-associated nitration of tyrosine and inactivation of succinyl-CoA:3-oxoacid CoA-transferase. *Am J Physiol Heart Circ Physiol.* 2001; 281:H2289-2294.

Ueno M, Bezerra RM, Silva MS, Tavares DQ, Carvalho CR, Saad MJ: A high-fructose diet induces changes in pp185 phosphorylation in muscle and liver of rats. *Braz J Med Biol Res* 2000, 33:1421-1427

Unger RH, Orci L: Diseases of liporegulation: new perspective on obesity and related disorders. *FASEB J* 2001, 15:312-21

Valenzuela A , Garrido A . Biochemical bases of the pharmacological action of the flavonoid silymarin and of its structural isomer silibinin . *Biol Res.* 1994; 27:105-112

Van Dam, P.S., Van Asbeck, B.S., Erkelens, D.W., Marx, J.J.M., Gispen, W.-H., and Bravenboer, B. (1995) The role of oxidative stress in neuropathy and other diabetic complications. *diabetes/MetabolismReviews* 11, 181-192.

Vanhainen HT, Blomqvist S, Ehnholm C, Serum cholesterol, cholesterol precursors, and plant sterols in hypercholesterolemic subjects with different apoE phenotypes during dietary sitostanol ester treatment. *J Lipid Res.* 1993; 34:1535-1544.

Vasdev S, Ford CA, Longerich L, Gadag V, Wadhawan S. Role of aldehydes in fructose induced hypertension. *Mol Cell Biochem* 1998; 181:1-9

Vasudevan DM, Sreekumari S. Text book of biochemistry. 4thed. Jaypee brother's medical publishers (p) LTD. New Delhi 2005; 111

Vats Vikrant, JK Grover, N Tandon, SS Rathi and N Gupta. Treatment with extracts of Momordica charantia and Eugenia jambolana prevents hyperglycemia and hyperinsulinemia in fructose fed rats. *Journal of Ethnopharmacology* 2001 July 76(2): P. 139-43.

Vecchio F, Zanchin G, Maggioni F, Santambrogio C, De Zanche L.. Mesoglycan in treatment of patients with cerebral ischemia: effects on hemorheologic and hematochemical parameters. *Acta Neurol (Napoli)*. 1993;15:449-456.

Vega-Lopez S, Devaraj S, Jialal I. Oxidative stress and antioxidant supplementation in the management of diabetic cardiovascular disease. *J Investig Med*. 2004; 52:24-32

Velazquez, E., Winocour, P.H., Kesteven, P., Alberti, K.G., Laker, M.F. (1991) Relation of lipid peroxides to macrovascular disease in type 2 diabetes. *Diabetic Medicine* 8, 752-758

Venugopal Rao A, Ramakrishnan S. Indirect assessment of Hydroxymethylglutaryl-CoA Reductase activity in liver tissue. *Clin Chem*.1975; 21: 1523-1525

Verma S, Bhanot S, McNeill JH. Antihypertensive effects of metformin in fructose-fed hyperinsulinemic, hypertensive rats. *J Pharmacol Exp Ther* 1994; 271:1334-7

Verma S, Bhanot S, McNeill JH. Decreased vascular reactivity in metformin-treated fructose-hypertensive rats. *Metabolism* 1996; 45:1053-5

Verschoor L, Chen YDI, Reaven EP, Reaven GM. Glucose and fructose feeding lead to alterations in structure and function of very low density lipoproteins. *Horm. Metabol. Res.* 1985; 17: 285-8

Vickers A, Zollman CE. ABC of complementary medicine: herbal medicine. *BMJ*. 1999; 319:1050-1053.

Vihas T, Vasu, Hiren Modi, Jyoti V, Thaikottahil and Saritha Gupta. Hypolipidemic and antioxidant effect of Enicostemma littorale Blume aqueous extract in cholesterol fed rats. *Journal of Ethnopharmacology* 2005;101: 277-82.

Visioli F, Bellosta S, Galli C. Oleuropein, the bitter principle of olives, enhances nitric oxide production by mouse macrophages. *Life Sci* 1998; 62:541-546

Vogel HG, Wolfgang, (1997) Drug discovery and evaluation pharmacological assays. 2nd ed. PP. 1167-70, Springer Verlag Berlin, Heidelberg publications

Vogel HG, Wolfgang. Drug discovery and evaluation pharmacological assays . 2nd ed. Heidelberg Publications: Springer Verlag Berlin; 1997. p. 1167-70.

Vohora SB, Garg SK, Chaudhury RR. Antifertility screening of plants. 3. Effect of six indigenous plants on early pregnancy in albino rats. *Indian Journal of Medical Research*. 1969; 57(5):893-899.

VP Dixit, Prabha Jain and SC Joshi. Hypolipidemic effects of Curcuma longa L. and Nardostachys Jatamansi, DC in Triton -induced hyperlipidemic rats. *Ind J Physiol Pharmac*; 1988 Oct-Dec: 299-304

W.L. Li, H.C. Zheng, J. Bukuru, N. De Kimpe Natural medicines used in the traditional Chinese medical system for therapy of diabetes mellitus Journal of Ethnopharmacology 92 (2004) 1–21

Walsh MF, Barazi M, and Sowers JR. IGF-1 diminish in vivo and in vitro vascular contractility: role of vascular nitric oxide. *Endocrinology* 137: 1798–1803, 1996

Wang F, Hull RL, Vidal J, Cnop M, Kahn SE: Islet amyloid develops diffusely throughout the pancreas before becoming severe and replacing endocrine cells. *Diabetes* 2001, 50:2514-2520

Waring WS, Webb DJ, Maxwell SRJ. Uric acid as a risk factor for cardiovascular disease Q J Med 2000; 93: 707-713

Welihinda J, Karunananayake EH, Sheriff MH, Jayasinghe KS (1986) Effect of *Momordica charantia* on the glucose tolerance in maturity onset diabetes. *J. Ethnopharmacology* 17:277-282.

WHO Resolution. Drug policies and management Medicinal plants. WHO document, WHA 1978; 31-33.

Williams KJ, Tabas I: The response-to-retention hypothesis of atherogenesis reinforced. *Curr Opin Lipidol* 1998, 9:471-474

Williams KJ, Tabas I: The response-to-retention hypothesis of early atherogenesis. *Arterioscler Thromb Vasc Biol* 1995, 15:551-561

Wolff, S.P., Jiang, Z.Y., and Hunt, J.V. (1991) Protein glycation and oxidative stress in diabetes mellitus and ageing. *Free Radical Biology and Medicine* 10, 339-352.

Xie, H., Huang, S., Deng, H., Wu, Z., Ji, A., 1998. Study on chemical components of *Momordica charantia*. *Zhong Yao Cai*. 21, 458–459.

Xiu, L.M., Miura, A.B., Yamamoto, K., Kobayashi, T., Song, Q.H., Kitamura, H., Cyong, J.C., 2001. Pancreatic islet regeneration by ephedrine in mice with streptozotocin-induced diabetes. *American Journal of Chinese Medicine* 29, 493–500.

Yadav SP, Vats V, Ammini AC and Grover JK. *Brassica juncea* (Rai) significantly prevented the development of insulin resistance in rats fed fructose-enriched diet. *Journal of Ethnopharmacology* July 2004; 93(1): Pages 113-116

Yahya MD, Pinnas JL, Meinke GC, Lung CC. Antibodies against malondialdehyde (MDA) in MRL/lpr/lpr mice: evidence for an autoimmune mechanism involving lipid peroxidation. *J Autoimmun* 1996; 9: 3-9.

Yajnik, V.H. Acharya, H.K., Vithlani, M.P. and Yajnik, N.V (1993). Efficacy and safety of D-400, an herbal formulation, in diabetic patients The Indian Practitioner, Vol. XLVI (12), 917-922.

Yalow RS, Glick SM, Roth J, Berson SA: Plasma insulin and growth hormone levels in obesity and diabetes. *Ann NY Acad Sci* 1965; 131(1):357-373

Yamaguchi Y, Matsuno S, Kagota S, Haginaka J, Kunitomo M. Fluvastatin reduces modification of low-density lipoprotein in hyperlipidemic rabbit loaded with oxidative stress. *Eur J Pharmacol* 2002; 436: 97–105

Yaqoob, M., McClelland, P., Patrick, A.W., Stevenson, A., Mason, H., White, M.C., and Bell, G.M. (1994) Evidence of oxidant injury and tubular damage in early diabetic nephropathy. *Q. J. Med.* 87, 601-607.

Yasuhiro, M. Minokoshi1, Young-Bum Kim1, Odile D. Peroni1, Lee G. D (2002) Leptin stimulates fatty-acid oxidation by activating AMP activated protein kinase. *Nature* 415: 339 – 343.

Yokoyama M, Origasa H, Matsuzaki M, Effects of eicosapentaenoic acid on major coronary events in hypercholesterolaemic patients (JELIS): a randomised open-label, blinded endpoint analysis. *Lancet.* 2007; 369:1090-1098.

Yoshikawa M, Murakami T, Kishi A, Kageura T & Matsuda H (2001) Medicinal flowers. III. Marigold (1): hypoglycaemic, gastric emptying inhibitory, and gastroprotective principles and new oleanane-type triterpene oligoglycosides, calendasaponins A, B, C, and D, from Egyptian Calendula officinalis. *Chemical and Pharmaceutical Bulletin* 49, 863–870.

Yoshiki Y & Okubo K (1995) Active oxygen scavenging activity of DDMP (2, 3-dihydro-2, 5-dihydroxy-6-methyl-4H-pyran-4-one) saponin in soybean seed. *Bioscience Biotechnology and Biochemistry* 59, 1556–1557.

Yoshiki Y, Kudou S & Okubo K (1998) Relationship between chemical structures and biological activities of triterpenoidsaponins from soybean (Review). *Bioscience Biotechnology and Biochemistry* 62, 2291–2299.

Yoshiki Y, Kudou S & Okubo K (1998) Relationship between chemical structures and biological activities of triterpenoid saponins from soybean (Review). *Bioscience Biotechnology and Biochemistry* 62, 2291–2299.

Yuan, Y.R., He, Y.N., Xiong, J.P., Xia, Z.X., 1999. Three-dimensional structure of beta-momorcharin at 2.55 Å resolution. *Acta Crystallographica Section D-Biological Crystallography* 55, 1144–1151.

Zalba G, San Jose G, Moreno MU, et al. Oxidative stress in arterial hypertension: role of NAD(P)H oxidase. *Hypertension* 2001;38:1395-1399.

Zammit VA, Waterman IJ, Topping D, McKay G: Insulin stimulation of hepatic triacylglycerol secretion and the etiology of insulin resistance. *J Nutr* 2001, 131:2074-2077

Zaoui A, Cherrah Y, Lacaille-Dubois MA, Diuretic and hypotensive effects of Nigella sativa in the spontaneously hypertensive rat. *Therapie* 2000; 55:379-382

Zarzuelo A, Duarte J, Jimenez J, et al. Vasodilator effect of olive leaf. *Planta Med* 1991; 57:417-419

Zeng G and Quon MJ. Insulin-stimulated production of nitric oxide is inhibited by wortmannin. Direct measurement in vascular endothelial cells. *J Clin Invest* 15: 894-898, 1996.

Zeng G, Nystrom FH, Ravichandran LV, Cong LN, Kirby M, Mostowski H, and Quon MJ. Roles for insulin receptor, PI3-kinase and Akt in insulin-signaling pathways related to production of nitric oxide in human vascular endothelial cells. *Circulation* 101: 1539-1545, 2000

Zern TL, Wood RJ, Greene C, West KL, Liu Y, Aggarwal D, Shachter NS, Fernandez ML. Grape polyphenols exert a cardioprotective effect in pre- and postmenopausal women by lowering plasma lipids and reducing oxidative stress. *J Nutr.* 2005; 135:1911-1917.

Zhao RZ & McDaniel WF (1998) Ginseng improves strategic learning by normal and brain-damaged rats. *NeuroReport* 9,1619-1624.

Zhou YF, Guetta E, Yu ZX, Finkel T, Epstein SE. Human cytomegalovirus increases modified low density lipoprotein uptake and scavenger receptor mRNA expression in vascular smooth muscle cells. *J Clin Invest* 1996; 98: 2129-2138

Ziegler O, Quilliot D, Guerci B, Drouin P: [Macronutrients, fat mass, fatty acid flux and insulin sensitivity]. *Diabetes Metab* 2001, 2

Zunft HJ, Luder W, Harde A, Carob pulp preparation rich in insoluble fibre lowers total and LDL cholesterol in hypercholesterolemic patients. *Eur J Nutr.* 2003;42:235-242