BIBLIOGRAPHY

Abdulla, M., Himaja, M., Raman, M.V., Asif, K., Anand, R. and Mukesh, S. (2011) Synthesis, docking studies and antioxidant activities of tetrapeptide FGVY, *Int. J. Res. Ayur. Pharm.*, 2(3), 905-910.

Abei, H. (1984) Catalase *in vitro*, *Med. Enzymol.,* 105,121-126.

Abeysinghe, P.D., Vithanawasam, M., Pathirana, R.N., Abeysinghe, S. (2010) Preliminary *in vitro* screening of some mangrove plant extracts for antibacterial compounds against clinical bacterial isolates from different sources 1st *Science Symposium Proceeding,* 200,1, 22-5.

Abhishek, M., Satish, K. V., Santosh, K. S., Prasad, G.B. and Dua, V.K. (2011) Investigation of the antimicrobial, antioxidant and anti-inflammatory activity of compound isolated from *Murraya koenigii, Int.J. Appl. Biol. Pharm.Technol.,* 2(1), 470-477.

Adedapo, A.A., Jimoh, F.O., Afolayan, A.J. and Masika, P.J. (2008) Antioxidant activities and phenolic contents of the methanol extracts of the stems of *Acokanthera oppositifolia* and *Adenia gummifera*, *BMC Compl. Alter. Med.,* 8, 54 doi: 10.1186/1472-6882-8-54.

Adedapo, A.A., Jimoh, F.O., Koduru, S., Afolayan, A.J. and Masika, P.J. (2009) Antibacterial and antioxidant properties of the methanol extracts of the leaves and stems of *Calpurnia aurea*, *BMC Compl. Alt. Med*., 3, 23-31.

Adhvaryu, M.R., Reddy, N. and Parabia, M. H. (2010) Anti-tumor activity of four ayurvedic herbs in Dalton Lymphoma Ascites bearing mice and their short-term *in vitro* cytotoxicity on DLA cell line, *Afr. J. Trad. Compl. Alter. Med.,* 5 (4), 409 - 418.

Afonso, V., Champy, R., Mitrovic, D., Collin, P. and Lomri, A. (2007) Reactive oxygen species and superoxide dismutases: Role in joint diseases, *Sci. dir.,* 74, 324 - 329.

Agarwal, A. and Prabakaran, S.A. (2005) Mechanism, measurement and prevention of oxidative stress in male reproductive physiology, *Indian.J. Exp. Biol.,* 43(11), 963 - 74.

Ahamed, A., Jayaveera, K.N. and Venketeshwara Rao, J. (2008) Hepatoprotective and antioxidant activities of *Feronia limonia* leaves, *Pharmacol. Onl.,* 3, 992-1005.

Ahameethunisa, A.R. and Hopper, W. (2010) Antibacterial activity of *Artemisia nilagirica* leaf extract against clinical and phytopathogenic bacteria*, BMC Compl. Alter. Med.,* 10, 6.

Ahmad, R., Tripathi, A.K., Tripathi, P., Singh, R., Singh, S. and Singh, R.K. (2008) Oxidative stress and antioxidant status in patients with chronic myeloid leukemia, *Indian. J. Clini. Biochem.,* 23(4), 328-333.

Ahmadizadeh, M., Valizadeh, M., Zaefizadeh, M. and Shahbazi, H. (2011) Antioxidantive protection and electrolyte leakage in durum wheat under drought stress condition, *J. Appl. Sci. Res.,* 7(3), 236-246.

Ahmed, R., Tripathi, A.K., Tripathi, P., Singh, R., Singh, S. and Singh, R.K. (2010) Studies on lipid peroxidation and nonenzymatic antioxidant status as indices of oxidative stress in patients with chronic myeloid leukaemia, Singapore *Med. J.,* 51(2), 110 -115.

Ahsan, R., Islam, K.M., Musaddik, A. and Haque, E. (2009) Hepatoprotective activity of methanol extract of some medicinal plants against carbon tetrachloride induced hepatotoxicity in albino rats, *Global. J. Pharma.,* 3 (3), 116-122.

Akinmoladun, A.C., Ibukun, E.O., Afor, E., Obuotor, E.M. and Farombi, E.O. (2007) Phytochemical constituent and antioxidant activity of extract from the leaves of *Ocimum gratissimum*, *Sci. Res. Essay*., 2,163-166.

Alavijeh, P.K., Alavijeh, P.K. and Sharma, D. (2012) A study of antimicrobial activity of few medicinal herbs, *Asian J. Plant Sci. and Res.,* 2 (4), 496-502.

Amanda, R.R.V. and Fabio de Sousa, M. (2007) Antioxidant activity of plant tinctures commonly sold in pharmacies and indicated for several types of diseases using the DPPH methodology, *Revista Brasileira de Farmacognosia*, 17(3), 384-387.

An, W. (2007) Histone acetylation and methylation: combinatorial players for transcriptional regulation, *Subcell Biochem* , 41, 351- 369

Ananjiwala, S., Srinivasa, H., Kalola, J. and Rajini, M. (2007) Free radical scavenging activity of *Bergia suffruticosa* (Delile) Fenzl, *J. Nat. Med.,* 61, 59-62.

Ananthanarayan, R. and Paniker, C.K. (2003) Textbook of Microbiology 6thed. OrientBlackSwan/UniversitiesPress, www.jipmer.edu/bookbank.html.

Anbu, J., Ravichandran, V., Sumithra, M., Chowdary, B.S., Kumar, S.K. Kanndhasan, R. and Kumar, S.R. (2011) Anticancer activity of petroleum ether extract of *Abrus*

precatorius on Ehrlich Ascites Carcinoma in mice, *Int. J. Pharma. Biosci.*, 2(3), 24-31.

Anderssona, A. C., Scheltingaa, T.V. and Valegårdb K. (2001) Towards new *b*-lactam antibiotics, *Cell. Mol. Life Sci.*, 58, 1897-1906.

Anour, E., Calliste, C. A., Kosinova, P., Meo, F.D., Duroux, J.L., Champavier, Y., Marakchi, K. and Trouillas, P. (2008) Free radical scavenging properties of guaiacol oligomers: A combined experimental and quantum study of the Guaiacyl-moiety role, *J. Phys. Chem*., 113, 3881-3891.

Anthony, A.A. and Bukola A.C. (2009) Antibacterial activity and phytochemical analysis of leaf extracts of *Lasienthera africanum*, *Afri. J. Biotech.,* 8 (1), 077-080.

Ara, N. and Nur, H. (2009) *In vitro* antioxidant activity of methanolic leaves and flowers extracts of *Lippa alba*, *Res. J. Med. Med. Sci.,* 4(1), 107-110.

Arokiaraj, S., Radha, R., Martin, S. and Perinbam. K. (2008) Phytochemical analysis and antidiabetic activity of *Cadaba fructicosa* R Br. *Ind. J .Sci. Tech.,* 1(6), 1- 4.

Arora, S.D. and Kaur, G.J. (2007) Antibacterial activity of some Indian medicinal plants, *J Nat Med.,* 61, 313-317.

Arunachalam, K. and Parimelazhagan, T. (2011) Antioxidant and antimicrobial potential of methanolic extract of Indian sacred grove *Gymnostachyum febrifugum* Benth. Root, *Int. J. Pharma. Biomed. Res.,* 2(3), 67-71.

Arya, V. and Yadav, J.P. (2011) Antioxidant properties of the methanol extracts of the leaves, seeds and stem of *Cassia occidentalis*, *Res. J. Med. Plant*, 5(5), 547-556.

Aswar, P.B. and Kuchekar, B.S. (2012) Phytochemical, microscopic, antidiabetic, biochemical and histopathological evaluation of *Momordica charantia* fruits, *Int. J. Pharm. Pharma. Sci.*, 4(1), 325-331.

Audipudi, A. V., Bhaskar, V. C. (2010) Antioxidative and antimicrobial activity of methanol and chloroform extracts of *Gmelina arborea Roxb. Int. J.Biotech. Biochem.,* (1), 139-144.

Awah, F.M., Uzoegwu, P.N., Oyugi, J.O., Rutherford, J., Ifeonu, P., Yao, X., Fowke, K.R. and Eze, M.O. (2010) Free radical scavenging activity and immunomodulatory effect of *Stachytarpheta angustifolia* leaf extract, *Food Chem.,* 119, 1409-1416.

Babu, A.R.S., Raghunathanm, R., Mathivanan, N., Omprabha, G., Velmurugan, D. and Raghu, R.(2008) Synthesis, characterisation, anti-microbial activity and docking studies of novel dispiro-oxindolopyrrolidines, *Curr. Chem. Biol.,* 2, 312-320.

Bahorun, T., Soobratte, M.A., Luximon-Ramma, V. and Aruoma, O.I. (2006) Free radicals and antioxidants in cardiovascular health and disease, *Int. J. Med. Update,* 1(2), 25-41.

Bala, N.N., Sarkar, D.K., Chakraborty, S. and Mahata, P.P. (2011) *Comparative* study of *in vitro* free radical scavenging activity of different leaf extracts of *Ixora coccinea* L., *Int. J. Biomed. Res.,* 2, 1-71- 78.

Balaji, R., Prakash, G., Suganyadevi, P. and Aravinthan, K. M. (2011) Antioxidant activity of methanol extract of *Ocimum tenuiflorum* (dried leaf and stem), *Int. J. Pharam. Res. Devel.,* 3(1), 20-27.

Balaji, R., Suba, V., Rekha, N. and Deecaraman, M. (2009) Hepatoprotective activity of methanolic fraction of *Jatropha curcas* on Afflatoxin B1 induced hepatic carcinoma, *Int.. J. Pharma. Sci.,* 1(2), 287-296.

Balasundram, N., Ai, T.Y. and Sambanthamurthi, R. (2005) Antioxidant properties of palm fruit extracts, *Asia Pacific J. Clini. Nutri.*, 4(4), 319-324.

Ball, K.R. and Kowdley, K.V. (2005) A review of *Silybum marianum* (milk thistle) as a treatment for alcoholic liver disease, *J. Clin. Gastroenterol.,* 39(6), 520-528.

Ballester, P. J. and Mitchell, J. B. (2010) A machine learning approach to predicting protein-ligand binding affinity with applications to molecular docking, *Bioinfor.,* doi: 10.1093/bioinformatics/btq112. 26, 1169-1175.

Barh, D. (2008) Dietary Phytochemicals: A promise to chemoprevention, *Adv. Biotech.*, 21-23.

Baskar, C.R. Dhakad, S. and Kumar, V. (2012) Preliminary phytochemical and pharmacological (antidiabetic) screening of *Cassia tora Linn*. *Int. J. Pharm. Life Sci*. 2(5), 759-766

Batcioglu, K., Mehmet, N., Ozturk, C., Ylmaz, M., Aydogdu, N., Erguran, R., Uyumiu, B., Grenc, M. and Karogozle, A.A. (2006) Lipid peroxidation and antioxidant status in stomach cancer, *Cancer Invest.,* 24, 18-21.

Bayfield, R.F. and Cole, E.R. (1994) Colorimetric estimation of Vitamin A with trichloracetic acid, *Med. Enzymol.,* 67, 189-195.

Baylin, S. B. and Ohm, J. E. (2006) Epigenetic gene silencing in cancer- a mechanism for early oncogenic pathway addiction *Nature Reviews Cancer,* 6,107-116.

Bayoub, K., Baibai, T., Mountassif, D., Retmane, A. and Soukri, A. (2010) Antibacterial activities of the crude ethanol extracts of medicinal plants against *Listeria monocytogenes* and some other pathogenic strains, *Afr. J. Biotech.,* 9 (27), 4251-4258.

Benkovic, V., Knezevic, A.H., Brozovic, G., Knezevic, F., Dikic, D., Bevanda, M., Basic, I. and Orsolic, N. (2007) Enhanced antitumor activity of irinotecan combined with propolis and its polyphenolic compounds on Ehrlich ascites tumor in mice, *Biomed. Pharma.,* 61(5), 292-297.

Bhagat, S.S., Ghone, R.A., Suryakar, A.N. and Hundekar, P.S.(2011) Lipid peroxidation and antioxidant Vitamin status in colorectal cancer patients, *Ind. J. Physiol. Pharma.,* 55(1), 72-76**.**

Bharathi, V., Varalakshmi, B., Gomathi, S., Shanmugapriya, A. and Karpagam, T. (2012) Antibacterial activity of *Tridax procumbens Linn, Int. J. Pharma. Sci. and Res.,* 3(4), 364-367.

Bishayee, S. and Balasubramanian, A.S. (1971) Lipid peroxide formation in rat brain, *J. Neurochem.,* 18, 909-920.

Brahma, B., Prasad, S. B., Verma, A. K. and Rosangkima, G. (2011) Study on the antitumor efficacy of some selected medicinal plants of Assam against murine ascites Dalton's Lymphoma, *Pharmacol. Onl.,* 3, 155-168.

Brambilla, D., Mancuso, C., Scuderi, M.R., Bosco, P., Cantarella, G., Lempereur, L., Benedetto, G.D., Pezzino, S. and Bernardini, R. (2008) The role of antioxidant supplement in immune system, neoplastic and neurodegenerative disorders: a point of view for an assessment of the risk/benefit profile, *Clini. Drug. Invent.,* 22, 51-65.

Bukan, N., Guney, Y., Hiesonmez, A. and Bilgihan, A. (2003) Antioxidant tolerance of kidney after irradiation, *Indian. J. Exp. Biol.,* 41(3), 267-269.

Burlakova, E.B., Zhizhina, G.P., Gurevich, S.M., Fatkullina, L.D., Kozachenko, A.I., Nagler, L.G., Zavarykina, T.M. and Kashcheev, V.V. (2010) Biomarkers of oxidative stress and smoking in cancer patients, *J.Cancer. Res. Ther.,* 6, 47-53.

Carlsen, M.H., Halvorsen, B.L., Holte, K., Bohn, S. K., Dragland, S., Sampson, L.,Willey, C., Senoo,H., Umezono,Y., Sanada,C., Barikmo,I., Berhe,N., Willett, W. C.,Phillips, K.M., Jacobs, D.R. and Blomhoff, R. (2010) The total antioxidant content of more

than 3100 foods, beverages, spices, herbs and supplements used worldwide, *Nutri. J.,* 9(3), 122-125.

Casao, A., Cebrian, I., Asumpcao, M.E., Perez-Pe, R., Abecia, J.A., Forcada, F., Cebrian-Perez, J.A. and Muiño-Blanco, T. (2010) Seasonal variations of melatonin in ram seminal plasma are correlated to those of testosterone and antioxidant enzymes, *Reprod. Biol. Endocri.,* 8(59), 1-9.

Cases, M. and Mestres, J. (2009) A chemogenomic approach to drug discovery: focus on cardiovascular diseases, *Drug. Discov.Today.,* 14, 479-485.

Chakraborty, D. and Verma, R. (2010) Ameliorative effect of *Emblica officinalis* on ochratoxin induced lipid peroxidation in the kidney and liver of mice, *Int. J. Occup. Med. Environ. Health.,* 23(1), 63-73.

Chanda, S., Dave, R. and Kaneria, S. (2011) *In vitro* antioxidant property of some Indian medicinal plants, *Res. J. Med. Plant*, 5(2),169-179.

Chandra Prabha, D. and Annapoorani, S. (2011) Antioxidant status in the mice treated with the protein fraction of the grass *Cynodon dactylon, J. Ecotoxi. Envir. Monitor.,* 20(6), 501-508.

Chandrashekhar, V.M., Muchandi Ashok, A., Sarasvathi, V.S. and Muchandi, I.S. (2009) Free radical scavenging activity of *Stereospermum suaveolens* dc:an *in-vitro* evaluation, *Pharmacol. Onl.,* 1, 50-56.

Chaudhari, B. P., Chaware, V. J., Joshi, Y. R. and Biyani, K. R. (2009) Hepatoprotective activity of hydroalcoholic extract of *Momordica charantia Linn.* leaves against carbon tetra chloride induced hepatopathy in rats, *Int. J .Chem. Tech. Res.*, 2(1), 355-358.

Chaves, J., Condit, R., Aguilar, S., Hernandez, A., Lao, S. and Perez, R. (2004) Error propagation and scaling for tropical forest biomass estimates, *Philos. Trans. Royal. Soc. B.,* 359,409 - 420.

Chen, B., Ning, M. and Yang, G. (2012) Effect of Paeonol on antioxidant and immune regulatory activity in hepatocellular carcinoma rats, *Mol.,*17, 4672-4683.

Chetan, C. A., Rajesh, M.P., Sanjay, L.D. and Jitesh, K.J. (2010) *In vitro* cytotoxicity study of *Agave americana*, *Strychnos nuxvomica* and *Areca catechu* extracts using MCF-7 cell line, *J. Adv. Pharma. Tech. Res.,* 1(2), 245-252.

Chitravadivu, C., Manian, S. and Kalaichelvi, K. (2009a) Antimicrobial studies on selected medicinal plants, erode region, middle-east, *J. Sci. Res.* 4 (3), 147-152.

Chitravadivu, C., Manian, S. and Kalaichelvi, K. (2009b) Qualitative analysis of selected medicinal plants, Tamil Nadu, India, *J. Sci. Res.,* 4(3), 144-146.

Chockalingam, V., Kadali, S.S. and Gnanasambantham, P. (2012) Antiproliferative and antioxidant activity of *Aegle marmelos (Linn.)* leaves in Dalton's Lymphoma Ascites transplanted mice, *Ind. J. Pharma.,* 44(2), 225-229.

Citric, A., Vinkerhalter, B., Savikinfodulovia, K., Sokovic, M. and Vinterhalter, D. (2009) Antimicrobial activity of methanol extracts of *Celandine (Chelidonium majusz)* plants growing in nature and cultured *in vitro, Arch. Biol. Sci.,* 60, 7-8.

Clark, D. E. and Grootenhuis, P. D. (2002) Progress in computational methods for the prediction of ADME properties, *Curr. Opin. Drug. Discov. Dev.*, 5, 382-390.

Cohen, N. and Claude, A. (1996) Guidebook on molecular modeling in drug design, *Boston: Academic Press.*, 98-108.

Cooke, M.S., Evans, M.D., Dizdaroglu, M. and Lunec, J. (2003) Oxidative DNA damage: mechanisms, mutation and disease, *Federat. Amer. Societ. Exper. Biol. J.,* 17 (10), 1195 -1214.

Coyle, J.T. and Puttfarcken, P. (1993) Oxidative stress, glutamate and neurodegenerative disorders, *Sci.,* 262 (5134), 689-694.

Culling, C. F. A. (1974) Handbook of histophatology and histochemistry techniques, 3rd edition, *Butter worths and Co (Publishers) Ltd., London,* 115-117.

Cuzzocrea, S., Riley, D., Caputi, A.P. and Salvemini, D. (2001) Antioxidant therapy: A new pharmacological approach in shock, inflammation and ischemia reperfusion injury, *Pharmacol. Rev.*, 53, 135-159.

Dash, D.K., Veerendra, C. Y., Siva, S. N., Tirtha, G., Rajalingam, D., Pinaki, S., Bhim, C.M. and Tapan, K. M. (2007) Evaluation of hepatoprotective and antioxidant activity of *Ichnocarpus frutescens* (*Linn.*) R.Br. on paracetamol-induced hepatotoxicity in rats, *Trop. J. Pharma. Res.,* 6 (3), 755-765.

David, M. and Richard, J. S. (1983) Glutathione reductase, *Methods, Enzymol. Anal.,* 3, 258-265**.**

Davis, L. and Kuttan, G. (2001) Effect of *Withania somnifera* on DMBA induced carcinogenesis, *J. Ethanopharmacol.,* 75, 165-168.

Deepa, P., Kaleena, P.K. and Valivittan, K. (2011) *In vitro* cytotoxicity and anticancer activity of *Sansevieria roxburghiana*, *Int. J. Curr.Pharma.Res.*, 3(3), 71-73.

DeFeudis, F.V, Papadopoulos, V. and Drieu, K. (2003) *Ginkgo biloba* extracts and cancer: a research area in its infancy, *Fundam.Clin. Pharmacol*., 17, 405-417.

Dehpour, A.A., Ebrahimzadeh, M.A., Nabavi, S.F. and Nabavi, S.M. (2009) Antioxidant activity of methanol extract of *Ferula assafoetida* and its essential oil composition, *Grasas aceites.,* 60(4), 405-412.

Desai, P.V., Wadekar, R.R., Kedar, G.H. and Patil, K.S. (2008) Free radical scavenging activity of aqueous extract of roots of *Baliospermum montanum* Muell-Arg, *Int. J. Green.Pharm.,* 2, 31-33.

Devi, P.R. Kumari, S.K. and Kokilavani, C. (2009) Effect of *Vitex negundo* leaf extract on the free radicals scavengers in complete Freund's adjuvant induced arthritic rats, *Ind. J. Clin. Biochem.,* 22, 143-147.

Dhanamani, M., Lakshmi, D.S. and Kannan, S. (2011) Ethnomedicinal plants for cancer therapy- a review, *Hygeia J. Drugs. Med.,* 3 (1), 1-10.

Dhandapani, R. and Sabna, B. (2008) Phytochemical constituents of some Indian medicinal plants, *Anc. Sci. Life.,* 4, 1-8.

Dharani, B. Sumathi, S. Sivaprabha, J. and Padma, P. R. (2011) *In vitro* antioxidant potential of *Prosopis cineraria* leaves, *J. Nat. Prod. Plant Res*., 1 (3), 26-32.

Dixit, N., Baboota, S., Kohli, K., Ahmad, S. and Ali, J. (2007) Silymarin: A review of pharmacological aspects and bioavailability enhancement approaches, *Indian. J. Pharmacol.,* 39(4), 172-179.

Droge, W. (2002) Free radicals in the physiological control of cell function, *Physiol Rev.,* 82, 47-95, 10.1152/physrev.00018.2001.

Dunster, N.J., Ali, S.T., Tyler, P.D., Gill, A.E. and Lewendon, A. (2002) Pantothenate kinase as a target for New antimicrobial agents, *Abstract Intersciences Confer. Antimicro. Agents Chem.,* 27-30.

Durackova, Z. (2010) Some current insights into oxidatives, *Physiol. Res.,* 59: 459-469.

Ebrahimzadeh, M. A., Nabavi, S. F., Nabavi, S. M., Eslami, B. and Asgarirad, H.(2010a) *In vitro* antioxidant and free radical scavenging activity of *Leonurus cardiaca subsp. Persicus, Grammosciadium platycarpum* and *Onosma demawendicum, Afri. J. Biotech.*, 9(51), 8865-8871.

Ebrahimzadeh, M.A., Nabavi, S.M., Nabavi, S.F. and Eslami, B. (2009) Antioxidant activity of the bulb and aerial parts of *Ornithogalum sintenisii L (Liliacae)* at flowering stage, *Trop. J. Pharma. Res.,* 9 (2), 141-148.

Ebrahimzadeh, M.A., Nabavi, S.M., Nabavi, S.F., Bahramian, F. and Bekhradnia, A.R, (2010b) Antioxidant and free radical scavenging activity of *H. officinalis L. Var. Angustifolius, V. odorata, B. Hyrcana* and *C.speciosum*, *Pak. J. Pharma. Sci.*, 23(1), 29-34.

Edeoga, H.O., Okwa, D.E. and Mbaebia, B.O. (2005) Phytochemical constituents of some Nigerian medicinal plants, *Afr. J. Biotech.,* 4, 685-688.

Edwards, C.J. and Fuller, J. (1996) Oxidative stress in erythrocytes, *Comp Haematol Int., 6*, 24-31.

Eghwrudjakpor, P.O. and Aillison, A.B. (2010) Oxidative stress following traumatic brain injury: Enhancement of endogenous antioxidant defense systems and the promise of improved outcome, Nigerian *J. Med.,* 19(1), 14-21.

Ehrenbergerová, J., Březinová Belcredi, N., Psota, V., Hrstková, P., Cerkal, R. and Newman, C.W. (2009) Changes caused by genotype and environmental conditions in beta-glucan content of spring barley for dietetically beneficial human nutrition, *Plant. Foods. Hum. Nutr.,* 63,141-145.

Ekins, S., Mestres, J. and Testa, B. (2007) *In silico* pharmacology for drug discovery: applications to targets and beyond, *Br. J. Pharmacol.,* 152, 21-37.

Elaut, G., Rogiers, V. and Vanhaecke, T. (2007) The pharmaceutical potential of histone deacetylase inhibitors, *Curr. Pharma. Design*., 13, 2584-2620.

Eleuteri, E., Magno, F., Gnemmi, I., Carbone, M., Colombo, M., Rocca, G. L., Anzalone, R., Genta, F. T., Zummo, G., Stefano, A. D. and Giannuzzi, P. (2009) Role of oxidative and nitrosative stress biomarkers in chronic heart failure, *Front. Biosci.*, 14, 2230-2237.

Elizabeth, K. and Rao, M. W. A. (1990) Oxygen radical scavenging activity of *Curcumin, Int. J. Pharm.,* 58, 237-240.

El-Samaligy, M.S., Afifi, N.N. and Mahmoud, E.A. (2006) Evaluation of hybrid liposomes-encapsulated silymarin regarding physical stability and *in vivo* performance, *Int. J. Pharm.,* 319, 121-129.

Emami, S.A., Sadeghi-aliabadi, H., Saeidi, M. and Jafarian, A. (2005) Cytotoxic evaluations of Iranian conifers on cancer cells, *Pharm. Biol.,* 43(4), 299-304.

Finaud, J., Lac, G. and Filaire, E. (2006) Oxidative stress relationship with exercise and training, *Sports Med.,* 36 (4), 327-358.

Fraschini, F., Demartini, G. and Esposti, D. (2002) Pharmacology of silymarin, *Clin. Drug. Invest.,* 22(1), 51-65.

Fusco, D., Colloca, G., Monaco, M.R.L. and Cesari, M. (2007) Effects of antioxidant supplementation on the aging process, *Clini. Interv. Aging.*, 2(3), 377-387.

Gaikwad, A., Sura, A., Shaphrang, B, Shalini, K., Ray, M. and Kannabiran, K. (2011) Compounds and target proteins of different cancers by *in silico* molecular docking studies, *Pharmacol. Onl.,* 3, 692-699.

Gallo, G. and Martino, G. (2009) Red blood cell glutathione peroxidase activity in female nulligravid and pregnant rats, *Reprod. Biol. Endocrinol.*, 7(7) 102-105. doi: 10.1186/1477-7827-7-7.

Ganesh, S. and Jannet, V. (2011) Phytochemical analysis of *Acanthus ilicifolius* and *Avicennia officinalis* by GC-MS, *Res. J. Phytochem.,* 5(1), 60-65.

Garg, S., Sharma, K., Ranjan, R., Attri, P. and Mishra, P. (2009) *In vivo* antioxidant activity and hepatoprotective effects of methanolic extract of *Mesua ferrea* linn*, Int. J. Pharm. Tech. Res.*, 1(4),1692-1696.

Genestra, M. (2007) Oxyl radicals, redox-sensitive signalling cascades and antioxidants, *Cell. Signal.,* 19, 1807-1819.

Geran, R.I., Greenberg, N.H., MacDonald, M.M., Schumacher, A.M. and Abbott, B.J. (1972) Protocols for screening chemical agents and natural products against animal tumors and other biological systems, *Cancer. Chemoth*. *Rep*., 3(2), 1-17, 59-61.

Goossens, H., Ferech, M., Vander, S.R. and Elseviers, M. (2005) Outpatient antibiotic use in Europ and association with resistance: a cross national database study, *Lancet*, 365, 379-587.

Green, L. C., Wagner, D. A., Gloowski, J., Skipper, P. L., Wishnok, J. S. and Tannenbaum, S. R. (1982) Analysis of nitrate and nitrite (15N) nitrate in biological fluids, *Anal. Biochem.,* 126, 131-136.

Gruhlke, M.C.and Slusarenko, A.J. (2012) The biology of reactive sulfur species (RSS) *Plant. Physiol. Biochem.,* 59, 98-107.

Guha, G., Rajkumar, V., Kumar, R.A. and Mathew, L. (2009) Therapeutic potential of polar and non-polar extracts of *Cyanthillium cinereum, In vitro* eCAM., 1-11.

Gulcin, I., Berashvili, D. and Gepdiremen, A. (2005) Antiradical and antioxidant activity of total anthocyanins from *Perilla pankinensis decne, J. Ethnopharmacol*., 101(1-3), 287-293.

Gulcin, I., Elias, R., Gepdiremen, A., Taoubi, K. and Koksal, E. (2008) Antioxidant secoiridoids from fringe tree (*Chionanthus virginicus* L), *Wood Sci. Tech.,* 2, 212-224.

Gulcin, I., Huyut, Z., Elmastas, M. and Aboul-Enein, H.Y. (2010) Radical scavenging and antioxidant activity of tannic acid, *Ara.J. Chem.,* 3, 43-53.

Gunasekaran, S. and Anitha, B. (2011) Analysis of phytochemical variability in Neem formulations, *Ind. J. Nat. Prod. Res.,* 1 (3), 291-295.

Gupta, D., Mann, S., Jain, I. and Gupta, R.K. (2011b) Phytochemical, nutritional and antioxidant activity evaluation of fruits of *Ziziphus nummularia Burm. F., Int. J. Pharma. Biosci.*, 2(4), 629-638.

Gupta, M., Mazumber, U.K., Kumar, R.S., Sivakumar, T. and Vansi, M.L.M. (2004) Antitumor activity and antioxidant status of *Caesalpinia bonducella* against Ehrlich Ascites Carcinoma in Swiss albino mice, *J. Pharm. Sci.,* 94,177-184.

Gupta, N., Agarwal, M., Bhatia, V., Jha, S.K. and Dinesh, J. (2011a) *In vitro* antioxidant activity of crude extracts of the plant *Glycosmis pentaphylla correa Int. J. Sci. Res.,* 6 (2), 159-162.

Gupta, R., Sharma, V. and Sharma. S. (2011c) Chemopreventive effect of *Tinospora cordifolia* root extract against Aflatoxin B1-induced toxicity in Swiss albino mice, *Int. J. Biol. Med. Res.,* 2(4), 1115-1121.

Gupta, R.S. and Singh, D. (2007) Hepatomodulatory role of *Enicostemma littorale* Blume against oxidative stress induced liver injury in rats, *Afr. J. Agri. Res.,* 2(4), 131-138.

Gupta, S., Shukla, R. and Sharma, K.K. (2006) Antidiabetic, antihypercholesterolemic and antioxidant effect of *Ocimum sanctum Linn*. seed oil, *Indian. Jr. Exp. Biol.,* 44(4), 300-303.

Gupta, V. K. and Sharma, S.K. (2006) Plants as natural antioxidants, *Nat. Prod. Rad.,* 5(4), 326-334.

Gupta, V.K., Kumria, R., Garg, M. and Gupta, M. (2010) Recent Updates on free radicals scavenging flavonoids: An overview, *Asian. J. Plant S*ci., 9(3), 108-117.

Hajra, S., Mehta, A. and Pandey, P. (2011) Phenolic compounds and antioxidant activity of *Swietenia mahagoni* seeds, *Int. J. Pharma. Pharma. Sci.,* 3(5), 431-434.

Halliwell, B. (1991) Reactive oxygen species in living systems: Source, biochemistry and role in human disease, *Amer. J. Med.,* 91, 14 - 22.

Halliwell, B. (1996) Vitamin C: antioxidant or proantioxidant *in vivo, Free radical Res.*, 25, 439 - 454.

Halliwell, B. and Gutteridge, J.M.C. (1984) Lipid peroxidation, oxygen radicals, cell damage and antioxidant therapy, *Lancet.,* 1, 1396-1397.

Halliwell, B. and Gutteridge, J.M.C. (2007) Free radicals in biology and medicine, 4th ed. *Oxford,* UK.

Halliwell, B., Clement, M. and Long, L. (2000) Hydrogen peroxide in the human body*, Fed. Euro. Biochem. Soci. Lett.,* 486, 10-13.

Hamad, I., Dayi, O.E., Pekmez, M. Ucar, E.O. and Arda, N. (2010) Antioxidant and cytotoxic activities of *Aphanes arvensis* extracts, *Plant Foods Hum. Nut.,* 65, 44-49.

Harer Sunil, L. and Harer Priyanka S. (2010) Evaluation of analgesic and anti-inflammatory activity of *Ficus racemosa Linn.* stem bark extract in rats and mice, *Pharma. J.,* 10, 2(6), 132-135.

Harikumar, A., Kuzhuvelli, B., Kuttan, G. and Kuttan, R. (2009) *Phyllanthus amrus* inhibits cell growth and induces apoptosis in Dalton's Ascites Cells through activation of caspase-3 and down regulation of BCL-2, *Integer.Cancer. Ther.,* 8, 190-194.

Harish, R. and Shivanandappa, T. (2006) Hepatoprotective potential of *Decalepis hamiltonii* (Wight and Arn) against carbon tetrachloride-induced hepatic damage in rats, *J .Pharm .Biol. Sci*., 2(4), 341-345.

Hasan, S. M. R., Hossain, Md. M., Akter, R., Jamila, M., Mazumder, Md.E.H. and Rahman, S. (2009) DPPH free radical scavenging activity of some Bangladeshi medicinal plants, *J. Med. Plants. Res.,* 3(11), 875-879.

Hassan, A.I. and Adbel-Gawad, E.I. (2010) Effect of *Zizypus* leaves extract on mice suffering from Ehrlich ascites carcinoma, *Nat. Sci*., 8(11), 234-244.

Hassan, H.M.M. and Hassan, N.M.M. (2010) *In vitro* antioxidant and free radical scavenging activities of red grape seed extracts, *Global J. Biotech.Biochem.,* 5(2), 106-115.

Hazra, B., Sarkar, R., Biswas, S. and Mandal, N. (2010) Comparative study of the antioxidant and reactive oxygen species scavenging properties in the extracts of

the fruits of *Terminalia chebula*, *Terminalia belerica* and *Emblica officinalis*, *BMC Compl. Alter. Med.,* 10, 1-15.

Henriquez, C., Aliaga, C. and Lissi, E. (2002) Formation and decay of the ABTS derived radical cation: A comparison of different preparation procedures, *Int. J. Chem. Kint.,* 34(12), 659-665.

Hong, B.S., Yun, M.K., Zhang, Y.M., Chohnan, S., Rock, C.O., White S.W., Jackowski, S., Park, H.W. and Leonardi, R. (2006) "Prokaryotic Type II and Type III pantothenate kinases: The same monomer fold creates dimers with distinct catalytic properties," *Str.,* 14, 1251-1261.

Huang, M.H., Huang, S.S., Wang, B.S., Wu, C.H., Sheu, M.J. and Hou, W.C. (2011) Antioxidant and anti-inflammatory properties of *Cardiospermum helicacabum* and its reference compounds *ex vivo* and *in vivo, J. Ethnopharmacol.,* 133,743-750.

Ibrahim, S.S. and Nassar, N.N. (2008) Diallyl sulfide protects against N-nitrosodiethylamine induced liver tumorigenesis: Role of aldose reductase, *World J. Gastoent.,* 14(40), 6145-6153.

Igarashi, M. and Miyazawa, T. (2001) The growth inhibitory effect of conjugated linilinic acid on a human hepatoma cell line Hep G2 is induced by a change in fatty acid metabolism but not the facilitation of lipid peroxidation in cells, *Biochimica. Biophysica. Acta. Mol. Cell. Biol. Lipids.,* 1530, 162-171.

Igbinosa, O.O., Igbinosa, E.O. and Aiyegoro, O.A. (2009) Antimicrobial activity and phytochemical screening of stem bark extracts from *Jatropha curcas (Linn), Afr. J. Pharm. Pharmacol.,* 3, 58-62.

Ilango, K and Chitra, V. (2010) Hepatoprotective and antioxidant activities of fruit pulp of *Limonia acidissima Linn*, *Int. J. Health.Res.,* 2(4), 361-367.

Iovine, N.M., Pursnani, S., Voldman, A., Wasserman, G., Martin J. B. and Weinrauch, Y. (2008) Reactive nitrogen species contribute to innate host defense against *Campylobacter jejuni*, *Inf. Lmm.,* 76(3), 986-993 .

Irshad, M. and Chaudhuri, P.S. (2002) Oxidant-antioxidant system: Role and significance in human body, *Ind. J. Experi. Biol.,* 40, 1233-1239.

Ivanova, D.G.and Singh, B.R.(2003) Nondestructive FT-IR monitoring of leaf senescence and elicitin-induced changes in plant leaves, *Biopolymers,* 2(2), 79-85.

Iyengar, M. A. (1995) Study of crude drugs, 8th ed, *Manipal Power Press,* Manipal, India, 2.

Jabbour, E. J. and Giles, F. J. (2005) New agents in myelodysplastic syndromes, *Curr.Hemat. Reports,* 4, 191-199.

Jagatheesh, K., Arumugam, V., Elangovan, N. and Pavankumar, P. (2010) Evaluation of the antitumor and antioxidant activity of *Amorphophallus paeonifolius* on DMBA induced mammary carcinoma, *Int. J. Chem. Pharma. Sci.,* 1, (2), 40-50.

Jain, A., Soni, M., Deb, L., Jain, A., Rout, S.P., Gupta, V.B. and Krishna, K.L. (2008) Antioxidant and hepatoprotective activity of ethanolic and aqueous extracts of *Momordica dioica* Roxb. leaves, *J. Ethnopharmacol.,* 115(1), 61-66.

Jain, M., Kapadia, R., Albert, S. and Mishra, S.H. (2011a) Standardization of *Feronia limonia* L. leaves by HPLC, HPTLC, physio-chemical and histological parameters, *Boletin Latinoamericanoy del Caribe de Plantas Medicinalesy Aromticas*, 10(6), 525-535.

Jain, P., Hasan Bhuiyan, M., Hossain, K.R. and Sitesh C. B. (2011b) Antibacterial and antioxidant activities of local seeded banana fruits, *Afr. J. Pharm. Pharma.,5*(11),1398-1403.

Jain, R. and Jain, S. K. (2011) Screening of *in vitro* cytotoxic activity of some medicinal plants used traditionally to treat cancer in Chattisgarh state, India, *Asian. Pacific. J. Trop. Biomed.*, S147-S150.

Jalalpure, S.S., Patil, M.B., Prakash, N.S., Hemalata, K. and Manvi, F.V. (2003) Hepatoprotective activity of fruit of *Piper longum Linn., Ind. J. Pharma. Sci.,* 65, 360-366.

Jang, I., Jo, E., Bal, M., Lee, H., Jeon, G., Park, E., Yuk, H., Ahn, G. and Lee, S. (2010) Antioxidant and antigenotoxic activities of different parts of persimmon (*Diospyros kaki* cv. Fuyu) fruits*, J. Med. Plant Res.,* 4, 155-160.

Jayaseelan, R.S., Vijayan, F. P., Mathesvaran, M., Suresh, V. and Padikkala, J. (2012) Cytotoxic and antitumor activity of methonolic extracts *Desmodium triangulare* (*Merr.*) Root, *Int. J. Pharma. Pharma. Sci.,* 4(3), 540-542.

Jelili, A.B., Temitope, O. A., John. O.F., Victor. A. A., Oluwatosin, A. A. and Oyeronke, A.O. (2010) Lipid peroxidation inhibition and antiradical activities of some leaf fractions of *Mangifera indica, Acta. Pol. Pharm. Drug. Res.,* 68 (1), 23 - 26.

Jena, J., Ranjan, R., Ranjan, P. and Manoj, K. S. (2012) A study on natural anticancer plants, *Int. J. Pharma. Chem. Sci.,* 1(1), 365-368.

Jennison, A.V. and Verma, N.K. (2004) *Shigella flexneri* infection: pathogenesis and vaccine development*, Microbiol. Reviews,* 28, 43-58.

Joglekar, M., Mandal, M., Somaiah, M.P. and Murthy, S. (2012) Comparative analysis of antioxidant and antibacterial properties of *Aegle marmelos*, *Coriandrum sativum* and *Trigonella foenum-graecum*, *Acta Biol. Indian.,* 1(1), 105-108.

Johnson, V.J., He, Q., Osuchowski, M.F. and Sharma, R.P. (2003) Physiological responses of a natural antioxidant flavonoid mixture, silymarin, in Balb/C mice: III. silymarin inhibits T-lymphocyte function at low doses but stimulates inflammatory processes at high doses*, Plant. Med.,* 69(1), 44-49.

Jordan, M. A. and Wilson, L. (2004) Microtubules as a target for anticancer drugs, *Cancer,* 4, 253-265.

Joseph, B. and Raj, S. J. (2010) An Overview: Pharmacognostic properties of *Phyllanthus amarus Linn*, *Int. J. Pharm.*, 7(1), 40-45.

Jothivel, N., Ponnusamy, S.P., Appachi, M., Singaravel, S., Radilingam, D., Deivasigammi, K. and Thangavel, S. (2007) Antidiabetic activity of methanol leaf ectract of *Costus pictus* D.Don in Alloxan induced diabetic rats, *J. Health. Sci.,* 53(6), 655-663.

Kalaiselvi, M., Narmadha, R., Ragavendran, P., Ravikumar, G., Gomathi, D., Sophia, D., Raj, C.A., Uma, C. and Kalaivani, K. (2012) *In vivo* and *in vitro* antitumor activity of *Jasminum sambac (Linn) oleaceae* flower against Daltons Ascites Lymphoma induced Swiss albino mice, *Int. J. Pharma. Pharma. Sci.,* 4, 145-147.

Kaneria, M., Baravalia, Y., Vaghasiya, Y. and Chanda, S. (2009) Determination of antibacterial and antioxidant potential of some medicinal plants form Saurashtra Region, *India, Indian. J. Pharm. Sci.,* 71(4), 406-412.

Karchmer, A.W., Mandell, G.L., Bennett, J.E. and Dolin, R. (2000) Principles and practice of infectious diseases, *Philadelphia: Churchill Livingstone*, 274-299.

Karthika, K., Paulsamy, S. and Jamuna, S. (2012) Evaluation of *In vitro* antioxidant potential of methanolic leaf and stem extracts, *J. Chem. Pharm. Res*., 4(6),3254-3258.

Karthishwaran, K., Mirunalini, S., Dhamodharan, G., Krishnaveni, M. and Arulmozhi, V. (2010) Phytochemical investigation of methanolic extract of the leaves of *Pergularia daemia*, *J. Bio. Sci.,* 10(3), 242-246.

Karuppusamy, S., Muthuraja, G. and Rajasekaran, K.M. (2011) Antioxidant activity of selected lesser known edible fruits Western Ghats of India, *Ind. J. Nat. Prod. Res.*, 2(2), 174-178.

Katiyar, S.K. (2005) Silymarin and skin cancer prevention: Anti-inflammatory, antioxidant and immunomodulatory effects (Review), *Int. J. Oncol.,* 26(1), 169-176.

Kaushik, P. and Goyal, P. (2008) *In vitro* evaluation of *Datura innoxia* (thron apple) for potential antibacterial activity, India, *J. Microbial.,* 48, 353-357.

Khan, A., Rahman, M. and Islam, S. (2007) Antibacterial, antifungal and cytotoxic activities of tuberous roots of *Amorphophallus campanulatus*, *Turkish J. Biol.,* 31, 167-172.

Khan, M.A., Ali, M. and Alam, P. (2011) Phytochemical investigation of the fruits peels of *Citrus reticulate blanco*, *Nat. Prod. Res.*, 24 (7), 610 - 620.

Khan, S.A., Ahmad, B. and Alam, T. (2006) Synthesis and antihepatotoxic activity of some new chalcones containing 1, 4 - dioxane ring system, *Pak. J. Pharm. Sci.,* 19(4), 290-294.

Khanavi. M., Aajimahmoodi, M., Niromand, M.C., Karger, Z., Ajani, Y., Hadjiakhoondi, A. and Oveisi, M.R. (2009) Comparison of the antioxidant activity and total phenolic contents in some *Stachys* species, *Afr. J. Biotech.,* 8, 1143-1147.

Khandhaker, L., Ali, B. and Oba, S. (2008) Total polyphenol and antioxidant activity of red Amaranth (*Amaranth tricolor* L.) as affected by different sunlight level, *J.Japan.Soc.Hort.Sci.*, 77, 395-401.

Khosrani, A. and Behzadi, A. (2006) Evaluation of the antibacterial activity of the seeds hull of *Quercus barantii* on some Gram negative bacteria, *Pak. J. Med. Sci.,* 22, 429-432.

King, J. (1965) The hydrolases - acid and alkaline phosphatases. In “Practical Clinical Enzymology” (Van D. Nostrand Co. Ltd.), London, 191-196.

Klebe, G. (2006) Virtual ligand screening: strategies, perspectives and limitations, *Drug Discov.Today.,* 11, 580- 594.

Kohno, H., Tanaka, T., Kawabata, K., Hirose, Y., Sugei, S., Tsuda, H. and Mori, H. (2002) Silymarin, a naturally occurring polyphenolic antioxidant flavonoid, inhibits azoxymethane-induced colon carcinogenesis in male F344 rats, *Int. J. Cancer.,* 101(5), 461-468.

Kormanovski, A., Lara-Padilla, E. and Campos-Rodriguez, R. (2011) Oxidant/antioxidant response of swimmers during ultra-long swimming in open waters, *Ins. Biomed. Sci.*, 1(1), 1-8.

Kratchanova, M., Denev, P., Ciz, M., Lojek, A. and Mihailov, A. (2010) Evaluation of antioxidant activity of medicinal plants containing polyphenol compounds. Comparison of two extraction systems, *Actabiochimica polonica*, 57(2), 229-234.

Kren, V. and Walterova, D. (2005) Silybin and silymarin-new effects and applications, *Biomed. Papers,* 149(1), 29-41.

Kroemer, R.T. (2007) Structure-based drug design: docking and scoring, *Curr. Prot. Pep. Sci.,* 8, 312-328.

Kunwar, A. and Priyadarsini, K.I. (2011) Free radicals, oxidative stress and importance of antioxidants in human health, *J. Med. Allied. Sci.,* 1(2), 53-60.

Kuzhuvelil, B., Kuttan, G. and Kuttan, R. (2009) *Phyllanthus amarus* inhibits cell growth and induces apoptosis in Dalton's Lymphoma Ascites cells through activation of caspase and down regulation of bcl-2, doi: 10.1177/1534735408330713 *Int. Cancer.Ther.***,** 17-20.

Kwape, T.E and Chaturvedi, P. (2012) Anti-oxidant activities of leaf extracts of *Ziziphus mucronata, Int.J. Food. Agri.Veteri. Sci.* 2 (1), 62-69.

Lagnika, L., Amoussa, M., Adjovi, Y. and Sanni, A. (2012) Antifungal, antibacterial and antioxidant properties of *Adansonia digitata* and *Vitex doniana* from *Bénin pharmacopeia*, *J. Pharma. Phytother.,* 4(4), 44 -52.

Lakowicz, J. R. (2006) Principles of fluorescence spectroscopy, 3rd ed, *Springer Science and Business Media*, LLC, Baltimore.

Lakshmi, P.T.V. and Rajalakshmi, P.A. (2011) *In silico* identification of potential inhibitors for farnesyl transferase from *Aloe vera* for cancer, *Int. J. Pharma. Biosci.,* 2(3), 309-318.

Lastra, D.C.A., Nieto, A., Motilva, V., Martin, M.J., Herrerias, J.M. and Cabre, F. (2000) Intestinal toxicity of ketoprofen-trometamol its enantiomers in rat, Role of oxidative stress, *Inf. Res.*, 49, 627-632.

Lebedev, A.A., Batakov, E.A., Kurkin, V.A., Lebedeva, E.A., Zapesochnaya, G.G., Avdeeva, E.V., Simonova, G.V. and Volotsueva, A.V. (2001) The antioxidative activity of a complex hepatoprotective preparation, *Silybokhol, Rastitelnye Resursy,* 37(2), 69-75.

Lenzen, S. (2008) Oxidative stress: the vulnerable *β*-cell, *Biochem. Soc. Trans.,* 36, 343-347.

Leonardi, R., Chohnan, S., Zhang, Y.M., Virga, K.G., Lee, R.E., Rock, C.O. and Jackowski, S. A. (2005a) Pantothenate kinase from *Staphylococcus aureus* refractory to feedback regulation by coenzyme, *A. J. Biol. Chem.,* 280,3314-3322.

Leonardi, R., Zhang, Y.M., Rock C.O. and Jackowski, S. (2005b) Coenzyme A: Back in action, *Pro. Lipid. Res. Review.,* 44 (2-3), 125-153.

Lin, Y.T., Jeng, Y.Y., Chen, T.L. and Fung, C.P. (2010) Bacteremic community-acquired pneumonia due to *Klebsiella pneumoniae:* Clinical and microbiological characteristics in Taiwan, *BMC Inf., Dis.,* 2010, 10, 307.

Lindemann, R. K., Gabrielli, B. and Johnstone, R. W. (2004) Histone-deacetylase inhibitors for the treatment of cancer, *Cell Cycle.,* 3, 779-788.

Lipinski, B. (2011) Hydroxyl radical and its scavengers in health and disease, *Oxi. Med. Cell. Longev.,* doi:10.1155/2011/809696:1-9.

Lipinski, C.A., Lombardo, F., Dominy, B.W. and Feeney, P.J.(1997) Experimental and computational approaches to estimate solubility and permeability in drug discovery and development settings, *Adv. Drug Del. Reviews,* 23, 3-25.

Lira, L.Q. and Dimenstein, R. (2010) Vitamin A and gestational diabetes, *Rev. Ass. Med. Bras.,* 56(3), 355-9.

Liu, B., Bernard, B. and Wu, J.H. (2006a) Impact of EGFR point mutations on the sensitivity to gefitinib: insights from comparative structural analyses and molecular dynamics simulations, *Proteins,* 65, 331-46.

Liu, M., Jill, C.P., Jingfang, J.N., Edward, C. and Brash, E. (1998) Antioxidant action via p53 mediated apoptosis, *Can. Res.,* 58, 1723-1729.

Liu, T., Kuljaca, S Tee, A. and Marshall, G. M. (2006b) Histone deacetylase inhibitors: multifunctional anticancer agents, *Cancer Treat., Reviews,* doi: 10.1016, 1-9.

Liu, Y. and Ng, T.B. (2000) Antioxidative and free radical scavenging activities of selected medicinal herbs, *Life Sci.,* 66, 725-735.

Llovet, J.M., Burroughs, A. and Bruix, J. (2003) Hepatocellular carcinoma, *Lancet,* 362, 1907-1917.

Lou, Z., Wang, H., Li, J., Chen, S., Zhu, S., Ma, C. and Wang, Z. (2010) Antioxidant activity and chemical composition of the fractions from burdock leaves*, J. Food Sci.,* 75, 413-419.

Luck, H. (1974) In: Methods in enzymatic analysis 2nd ed, Bergmeyer Academic *Press, New York,* 885.

Lung-Yuan, W., Cheng, C.W., Tien, Y.C., Kuo, C.L., Lo, S.F. and Peng, W.H. (2011) Anti-oxidative and hepatoprotective activities of *Dendrobium tosaense* and *Ephemerantha fimbriata* in carbon tetrachloride-induced acute liver injury, *J. Chin. Med.,* 22(12), 47-63.

Luo, A., Fan, Y. and Luo, A. (2010) *In vitro* free radicals scavenging activities of polysaccharide from *Polygonum multiflorum thunb, J. Med. Plants.,* 5(6), 966-972.

Lutsenko, E.A., Carcamo, J.M. and Golde, D.W. (2002) Vitamin C prevents DNA mutation induced by oxidative stress, *J. Biol. Chem., 277*, 16895.

Maciejewicz, W., Daniewski, M., Bal, K. and Markowski, W. (2007) GC-MS Identification of the flavanoid aglycones isolated from propolis, *Chromatograph.,* 53, 343-346.

Madan, S., Singh, G.N., Kumar, Y. and Kohli, K. (2010) Phytochemical analysis and free radical scavenging activity of *Flemingia strobilifera (Linn)* R. Br., *Res. J. Pharma. Biol. Chem. Sci.,* 1(4), 183-190

Madhusudan, S. and Middleton, M.R. (2005) The emerging role of DNA repair proteins as predictive, prognostic and therapeutic targets in cancer, *Cancer.Treat., Reviews,* 31, 603-617.

Mahmood, A., Mahmood, A. and Mahmood, M. (2012) *In vitro* biological activities of most common medicinal plants of family *Solanaceae*, *World. Appl. Sci. J.,* 17 (8), 1026 - 1032.

Mahmoud, A.H., Motawa, H.M., Wahba, H.E. and Ebrahim, A.Y. (2006) Study of some antioxidant parameters in mice livers affected with *Urtica pilulifera* extracts, *Egypt. J. Hospit. Med.*, 21, 33 - 42.

Mahour, K., Mishra, A., Kumar, A. and Vihan, V.S. (2008) Preliminary pharmacognostical and phytochemical investigation on *Feronia elephantum* Corr. fruit, *J. Pharma. Res.*, 1(1), 44-47.

Maiese, K., Chong, Z.Z., Hou, J. and Shang, Y.C. (2010) Oxidative stress: Biomarkers and novel therapeutic pathways, *Exp. Gerontol.,* 45, 217-34.

Maithreyi, R., Janani, A.V., Krishna, R., Shweta, A., Edwin, R.R. and Krishna, S. (2010) Erythrocyte lipid peroxidation and antioxidants in chronic alcoholics with alcoholic liver disease, *Asian. J. Pharma.Clini. Res.,* 3(3), 183-185.

Maity, P., Chakraborty, S. and Bhattacharya, P. (2000) Neovascularisation offers a new perspective to glutamine-related therapy, *Indian J. Experi. Biol.*, 38(1), 88-90.

Makari, H., Haraprasad, N. and Ravikumar, P.H. (2008) *In vitro* antioxidant activity of the hexane and methanolic extracts of *Cordia wallichii* and *Celastrus paniculata*, *Int. J. Aesthet. Antiaging.Med.,* 1, 1- 5.

Manach, C., Hubert, J., Llorach, R. and Scalbert, A. (2009) The complex links between dietary phytochemicals and human health deciphered by metabolomics, *Mol. Nut. Food. Res.*, 53, 1303-1315.

Mandal, S., Hazra, B., Sarkar, R., Biswas, S. and Mandal, N. (2011) Assessment of the antioxidant and reactive oxygen species scavenging activity of methanolic extract of *Caesalpinia crista* leaf, eCAM., 2(3),202-206

Manikandan. P., Anandan, R., and Nagini, S., (2009) Evaluation of *Azadirachta indica* leaf fractions for *in vitro* antioxidant potential and protective effects against H_2O_2 induced oxidative damage to pBR322 DNA and red blood cells, *J. Agri. Food. Chem.,* 57, 6990-6996.

Manimozhi, D.M., Sankaranarayanan, S. and Sampathkumar, G. (2012) Phytochemical screening of three medicinally important *Ficus sp., Int. J. Pharma. Res. Develop.,* 4(1), 44 - 51.

Manjamalai, A., Singh, R.S.S., Guruvayoorappan, C. and Grace, V.M.B. (2010) Analysis of phytochemical constituents and anti-microbial activity of some medicinal plants in Tamilnadu, *India, Global. J. Biotech. Biochem.*, 5(2), 120-128.

Manju, V. and Nalini, N. (2005) Chemopreventive efficacy of ginger, a naturally occurring anti carcinogen during the initiation, post initiation stages of 1, 2, dimethyl hydrazine-induced colon cancer, *Clinica .Chimica. Acta.,* 358 (1-2), 60-67.

Manjusha, G.V., Rajathi, K., Mini, J.K.A. and Meera, K.S. (2011) Antioxidant potential and antimicrobial activity of *Andrographis paniculata* and *Tinospora Cordifolia* against pathogenic organisms, *J.Pharm. Res.*, 4(2), 452-455.

Mann, S., Gupta, D., Gupta, V. and Gupta, R.K. (2012) Evaluation of nutritional, phytochemical and antioxidant potential of *Trapa bispinosa* Roxb. Fruit, *Int. J. Pharm. Pharma. Sci.*, 4(1), 432-436.

Manna, A. and Abalaka, M.E. (2000) Preliminary screening of the various extracts of *Physalis angulala* (L.) for antimicrobial activities, *Spectrum J.,* 7(2),119 -125.

Marks, P. A. and Jiang, X. (2005) Histone deacetylase inhibitors in programmed cell death and cancer therapy, *Cell Cycle,* 4, 549-551.

Marks, P.A., Richon, V.M., Kelly, W.K., Chiao, J.H. and Miller, T. (2004) Histone deacetylase inhibitors: Development as cancer therapy, *Novartis Foundation Symposium*, 259, 269-281.

Mathew, B.B., Tiwari, A. and Jatawa, S.K. (2011) Free radicals and antioxidants: A Review, *J. Pharm. Res.,* 4(12), 4340-4343.

Matute, P.P., Zulet, M.A. and Martinez, J.A. (2009) Reactive species and diabetes: counteracting oxidative stress to improve health, *Sci. dir.,* 9, 771-779.

Mazumder, P.M., Saumya, D. and Das, M.K. (2010) Cytotoxic activity of methanolic extracts of *Berberis aristata* and *Hemidesmus indicus R*.Br.in MCF7 cell line, *J. Curr.Pharm. Res*., 112-115.

McCord, J.M. and Fridovich, I. (1968) The reduction of cytochrome C by milk xanthine oxidase, *J. Biol. Chem.,* 43, 5753-5760.

McKean, P.G., Vaughan, S .and Gull, K. (2001) The extended tubulin superfamily, *J. Cell. Sci.,* 114, 2723-2733.

Meena, H., Pandey, H.K., Pandey, P., Chand Arya, M. and Ahmed, Z. (2012) Evaluation of antioxidant activity of two important memory enhancing medicinal plants *Baccopa monnieri* and *Centella asiatica, Indian. J. Pharmacol.,* 44(1), 114-117.

Mehta, K., Balaraman, R., Amin, A. H., Bafna, P. A., and Gulati, O. D. (2010) Effect of fruits of *Moringa oleifera* on the lipid profile of normal and hypercholesterolaemic rabbits, *J. Ethnopharmacol.,* 86, 191-195.

Menghani, E. and Soni, M. (2012) Search for antimicrobial efficacy of certain Indian medicinal plants, *Int. J. Pharm. Phytopharmacol. Res.,* 1(4), 187-193.

Mensor, L. I., Menezes, F. S., Leitao, G. C., Reis, A. S., Dossaltos, T. C., Coube, C.S. and Leitao, S.G. (2001) Screening of Brazillian plant extracts for antioxidant activity by the use of DPPH free radical method, *Phytother. Res.,*15, 127-130.

Mishra, A., Arora, S., Gupta, R.M., Punia, R.K. and Sharma, A.K. (2009) Effect of *Feronia elephantum (Corr)* fruit pulp extract on indomethacin induced gastric ulcer in albino rats, *Trop. J. Pharma. Res*., 8(6), 509-514.

Mishra, J., Singh, R., Jadon, D., Manju, V., Gusain, S. and Aradhana, P. (2012) HPTLC profile of quercetin content of common Bean (Uttarakhand) *Landraces* Growing in Uttarakhand, *Amer.J. Food Tech.,* 7, 96-100.

Misra, H. P. and Fridovich (1972) The role of superoxide anion in the antioxidation of epinephrine and a simple assay for superoxide dismutase, *J. Biol. Chem.,* 247, 3170 - 3171.

Modi, S. (2003) Computational approaches to the understanding of ADME properties and problems, *Drug Discov.Today*, 8, 621- 623.

Mohamed, S.S.H., Hansi Priscilla, D. and Kavitha, T. (2010) Antimicrobial activity and phytochemical analysis of selected Indian folk medicinal plants, *Int. J. Pharma. Sci. Res.,* 1(10), 430-434.

Mohd Nasir, N. F., Raha, M. G., Kadri, N. A., Sahidan, S. I., Rampado, M. and Azlan, C.A. (2006) The study of morphological structure, phase structure and structure of collagen-PEO 600K blends for tissue engineering application, *Amer. J. Biochem.Biotech.,* 2 (5), 175-179.

Mojab, F., Kamalinejad, M., Ghaderi, N. and Vahidipour, H. (2003) Phytochemical screening of some Iranianp, *Iranian J. Pharma. Res.,* 77-82.

Molyneux, P. (2004) The use of the stable free radical diphenylpicrylhydrazyl (DPPH) for estimating antioxidant activity, *J. Sci. Tech.,* 26(2),211-219.

Monaghan, P., Metcalfe, N.B. and Torres, R. (2009) Oxidative stress as a mediator of life history trade-offs: mechanisms, measurements and interpretation, *Ecol. Lett.*, 12, 75-92.

Moron, M. S., Depierre, J. N. and Mannerisk, V. C. (1979) Levels of Glutathione, Glutathione reductase and Glutathione -S-transferase activities in rat lung and liver, *Biochimica. Biophysica. Acta.,* 582, 67-68.

Moselhy, S.S. and Ali, H.K. (2009) Hepatoprotective effect of cinnamon extracts against carbon tetrachloride induced oxidative stress and liver injury in rats, *Biol. Res.,* 42, 93-8.

Moss, D.W., Henderson, A.R. and Kachmar, J.F. (1987) In: Fundamentals of clinical chemistry, 3rd ed. W.B. Saurders, *Philadelphia.,* 346-421.

Motaal, A.A. and Shaker, S. (2011) Anticancer and antioxidant activities of standardized whole fruit, pulp and peel extracts of Egyptian Pomegranate, *The Open Conference Proceedings J.*, 41-45.

Mothana, R.A.A., Abdo, S.A.A., Hasson, S., Althawab, F.M.N., Alaghbari, S.A.Z. and Lindequist, U. (2009) Antimicrobial, antioxidant and cytotoxic activities and phytochemical screening of some Yemeni medicinal plants, eCAM., 28, 1-8.

Mulligan, J. M., Greene, L. M., Cloonan, S., Mc Gee, M. M., Onnis, V., Campiani, G., Fattorusso, C., Lawler, M., Williams, D. C. and Zisterer, D.M. (2006) Identification of tubulin as the molecular target of proapoptotic pyrrolo-1,5-benzoxazepines, *Mol.Pharma.,* 70, 60-70.

Munna, S., Jayaveera,K.N., Mallikarjuna Rao, P., Mallikarjuna Rao, K. and Gobinath, M. (2010) Evaluation of antioxidant activity of stem bark and leaves methanolic extract of *Ficus mollis* (Vahl) *J. Pharm. Res.,* 3(9), 2228-2231

Murali, A., Ashok, P. and Madhavan, V. (2011a) Antioxidant activity of leaf of *Hemidesmus indicus* (L.) R. Br. Var. *Pubescens* (W. & A.) Hk.f. (*Periplocaceae*) - an *in vivo* analysis, *Spatula DD*, 1(2), 91-100.

Murali, A., Ashok, P. and Madhavan, V. (2011b) *In vitro* antioxidant activity and HPTLC studies on the roots and rhizomes of *Smilax zeylanica L. (Smilacaceae), Int. J. Pharm. Pharm. Sci.,* 3(1), 192-195.

Mustafa, A.H. A. and Thunibat, O. Y. A. (2008) Antioxidant activity of some *Jordanian* medicinal plants used traditionally of treatment of diabetes, *Pak. J. Biol. Sci.,* 11(3), 351-358.

Nadendla, R. R. (2004) Molecular modeling: A powerful tool for drug design and molecular docking, *Res.,* 9, 51-60.

Naik, G.H., Priyadarsini, K.I. and Mothen, P. (2006b) Antioxidant and antiulcer activity of aqueous extract of a polyherbal formulation, *Ind. J. Exp. Biol.,* 44, 474-480.

Naik, G.H., Priyadharsini, K.I. and Mohan, H. (2006a) Free radical scavenging reaction and phytochemical analysis of triphala, an Ayurvedic formulation, *Curr. Sci.,* 90, 1100-1105.

Nair, R and Chanda, S. (2006) Activity of some medicinal plants against certain pathogenic bacterial strains, *Ind. J. Pharmacol*, 38,142-144.

Nascimento, G.G.F., Freitas, J.L.P.C. and Silva, G.L. (2000) Antibacterial activity of plant extracts and phytochemicals on antibiotic-resistant bacteria, *Braz. J. Microbiol.*, 31, 247-256.

Naskar, S., Upal, K. M., Pramanik, G., Bala, A., Pallab, K., Aminul, H. and Gupta, M. (2011) Comparative *in vitro* antioxidant activity of different parts of *Cocos nucifera* (*Linn.)* on reactive oxygen and nitrogen species, *Int.J. Pharma. Pharma .Sci.,* 3(3), 104-107.

Natarajan, E., Kumar, S.S., Xavies, F.T. and Kalaiselvi, V. (2003) Antibacterial activities of leaf extracts of *Alagium salvifolium*, *J. Trop. Med. Plants*., 40, 9-13.

Natasen, S., Badami, S., Santoshkumar, H. D. and Godavarthi, A. (2007) Antitumor activity and antioxidant status of the methanol extract of *Careya arborea* bark against Dalton's Lymphoma Ascites induced ascitic and solid tumor in mice, *J. Pharmacol. Sci.*, 103, 12 -23.

Navarro, C.M., Montilla, P.M., Martin, A., Jimenez, J. and Utrilla, P.M. (1993) Free radicals scavenger and antihepatotoxic activity of *Rosmarinus, Plant. Med.,* 59, 12-314.

NCCLS (National Committee for Clinical Laboratory Standards), (1993) Performance standards for antimicrobial disc susceptibility test, approved standard, 6th ed, NCCLS doc., M2-A5, Villanova, PA, USA.

Ncube, N.S., Afolayan, A.J. and Okoh, A.I. (2008) Assessment techniques of antimicrobial properties of natural compounds of plant origin: current methods and future trends, *Afr. J. Biotech.*, 7 (12), 1797-1806.

Nehru, S.S., Zakaria, Z., Sreenivasan, S. and Sutarjo, S. (2008) Free radical scavenging activity of *Cassia spectabilis* and *Cassia fistula, Int. J. Nat.Eng. Sci.,* 2(2), 111-112.

Nevin, K.G. and Vijayammal, P.L. (2005) Pharmacological and immunomodulatory effect of *Aerva lanata* in Dalton's Lymphoma Ascites-bearing mice, *Pharma. Biol.,* 43(7), 640-646.

Nichans, W.G. and Samuelson, B. (1968) Formation of malondialdehyde from phospholipid arachidonate during microsomal lipid peroxidation, *Eur. J. Biochem.*, 6, 126-130.

Nirmaladevi, R., Padma, P. R. and Kavitha, D. (2010) Analyses of the methanolic extract of the leaves of *Rhinacanthus nasutus, J. Med. Plants. Res.*, 4(15), 1554-1560.

Noyan, T., Bulaharogler, R. and Komurrogle, U. (2005) The oxidant and antioxidant effects of 25-hydroxy Vitamin D3 in liver, kidney and heart tissues of diabetic rats, *Clin. Exp. Med.,* 5, 31-36.

Okawa, M., Kinjo, J., Nohara, T. and Ono, M. (2001) DPPH (1, 1-Diphenyl-2-Picrylhydrazyl) radical scavenging activity of flavonoids obtained from some medical plants, *Biol. Pharm. Bull.,* 24(10), 1202-1205.

Okoko, T. (2009) Chromatographic characterization, *in vitro* antioxidant and free radical scavenging activities of *Grarcinia kola* seeds, *Afr. J. Biotech.,* 8(24), 7133-7137.

Opoku, A.R., Ndlovu, I.M., Terblanche, S.E. and Hutchings, A.H. (2007) *In vivo* hepatoprotective effects of *Rhoicissus tridentata subsp. cuneifolia,* a traditional Zulu medicinal plant against carbontetrachloride-induced acute liver injury in rats. S*. Afr. J. Bot.,* 73(3), 372-377.

Osada, H., Tatematsu, Y.,Masuda, A., Saito, M ., Sugiyama, M., Yanagisawa, K. and Takahashi, T. (2001) Heterogeneous Transforming Growth Factor (TGF)-β unresponsiveness and loss of TGF-β Receptor Type II expression caused by Histone Deacetylation in lung cancer Cell lines, *Cancer. Res.*, 61, 8331-8339.

Oshomoh, E.O. and Idu, M. (2012) Antimicrobial activity of ethanol and aqueous extracts of *Parinari curatellifolia* (stem) on dental caries causing microbes. *Int. J. Pharma. Sci. Res.*, 3(07), 2113-2118.

Osman, G. (2000) Pharmacophore perception, development and use in drug design. *Int. Univer.* Line: La Jolla, CA.

Oster, L.M., Scheltinga, A.C.T.V., Valegard, K., Mackenzie Hose, A., Dubus, A., Hajdu, J. and Andersson, I.(2004) Conformational flexibility of the C terminus with implications for substrate binding and catalysis revealed in a new crystal form of deacetoxycephalosporin C synthase, *J. Mol. Biol*., 3, 143- 157.

Padayatty, S.J., Katz, A., Wang, Y., Eck, P., Kwon, O., Lee, J., Chen, S., Corpe, C., Dutta, A., Dutta, S.K. and Levine, M. (2003) Vitamin C as an antioxidant: evaluation of its role in disease prevention, *J. Amer. College. Nutri.,* 22, 18-35.

Padmavathi, R., Senthilnathan, P., Chodon, D. and Sakthisekaran, D. (2006) Therapeutic effect of paclitaxel and propolis on lipid peroxidation and antioxidant system in 7, 12 dimethyl benz (a) anthracene-induced breast cancer in female Sprague Dawley rats*, Life. Sci.,* 78, 2820 -2825.

Palani, S., Raja, S., Praveen Kumar, R., Venkadesan, D., Devi, K., Sivaraj, A. and Senthil Kumar, B. (2009) Therapeutic efficacy of antihepatotoxic and antioxidant activities of *Acorus calamus* on acetaminophen-induced toxicity in rat, *Int. J. Int. Biol.,* 7(1), 39-44.

Palanivel, M.G., Rajkapoor, B., Kumar, R.S., Einstein, J.K., Kumar, E.P., Kumar, M.P., Kavitha, K., Kumar, M.P. and Jayakar, B. (2008) Hepatoprotective and antioxidant effect *Pisonia aculeata* L. against CCl_4- induced hepatic damage in rats, *Sci Pharm.,* 76, 203-215.

Panda, S. and Kar, A. (1998) *Ocimum sanctum* leaf extract in the regulation of thyroid function in the male mouse, *Pharmacol. Res.,* 38(2), 107-110.

Pandey, K.B. and Rizvi, S.I. (2010) Markers of oxidative stress in erythrocytes and plasma during aging in humans, *Oxid. Med. Cell. Longev.,* 3(1), 2-12.

Pandolfi, P. P. (2001) Histone deacetylases and transcriptional therapy with their inhibitors, *Cancer.Chemother. Pharmacol.,* 48 (1), S17-S19.

Parameswari, K., Aluru, S. and Kishori, B. (2012) *In vitro* antibacterial activity in the extracts of *Solanum nigrum, Indian Streams Res. J.,* 2(7),1-4.

Parasuraman, S., Raveendran, R. and Madhavrao, C. (2009) GC-MS analysis of leaf extracts of *Cleistanthus collinus* roxb (*Euphorbiaceae), Int. J. Ph. Sci.,* 1(2), 284-286.

Parekh, J. and Chanda, S. (2007) *In vitro* screening of antibacterial activity of aqueous and alcoholic extracts of various India plant species against selected pathogens from *Enterobacteriaceae, Afri .J. Microbiol. Res.,* 1(6), 092-099.

Parekh, J., Jadeja, D. and Chanda, S. (2005) Efficacy of aqueous and methanol extracts of some medicinal plants for potential antibacterial activity, *Turk. J. Biol.,* 29, 203-210.

Parthasarathy, S., Santanam, N., Ramachandran, S. and Meilhac, O. (1999) Oxidants and antioxidants in atherogenesis: an appraisal, *J. Lipid Res.,* 40, 2143-2157.

Pathak, P. and Saraswathy, A .S.J. (2010) *In vitro* antimicrobial activity and phytochemical analysis of the leaves of *Annona muricata*, *Int.J.Pharma.Res. Develop.,* 3(5), 1-6.

Patil, S.M., Kadam, V.J. and Ghosh, R. (2009) *In vitro* antioxidant activity of methanolic extract of stem bark of *Gmelina arborea roxb. (Verbenaceae), Int.J. Pharm. Tech. Res.,* 1(4), 1480-1484.

Pavithra, P.S., Janani, V.S., Charumathi, K.H., Indumathi, R., Potala, S. and Verma, R.S. (2010) Antibacterial activity of plants used in Indian herbal medicine, *Int. J. Green. Pharm.,* 22-28.

Pavithra, P.S., Janani, V.S., Charumathi, K.H., Indumathi, R., Potala, S. and Verma, R.S. (2009) Antimicrobial activvity of medicinal plants, *Int. J. Green. Pharm.,* 12-15.

Payne, D. J., Gwynn, M. N., Holmes, D. J. and Pompliano, D. L. (2004) Drugs for bad bugs: confronting the challenges of antibacterial discovery, *Nat. Rev. Drug Discov.,* 6, 29-40.

Pechere, J.C. (2001) Patients interviews and misuse of antibiotics, *Clin. Infect. Dis.,* 33, 170-173.

Pereira, R.P., Fachinetto, R., Prestes, A.S., Puntel, R.L., Da Silva, G.N.S., Heinzmann, B.M., Boschetti, T.K., Athayde, M.L., Bürger, M.E. and Morel, A.F. (2009) Antioxidant effects of different extracts from *Melissa officinalis, Matricaria recutita* and *Cymbopogon citratus*, *Neurochem. Res.,* 34, 973-983.

Pham- Huy, L.A., He, H. and Pham-Huy, C. (2008) Free radicals, antioxidants in disease and health, *Int. J .Biomed. Sci.,* 4(2), 89-95.

Pokorny, J. (2007) A natural antioxidants better and safer than synthetic antioxidants, *Eur. J. Lipid. Sci. Tech.,* 109, 629-642.

Pommerville, J.C. (2006) Alcamo's fundamentals of microbiology, 7th ed, *Jones and Barlet Publisher, Inc.,* 663-665.

Poonam, K. and Pratap, S. K. (2012) Antimicrobial activities of *Ricinus communis* against some human pathogens, *Int. Res. J. Pharm.,* 3(7), 209-210.

Poppel, V. G. and Berg, V.H. (1997) Vitamins and cancer, *Canc. Lett.*, 114,195- 202.

Pourmorad, F., Hosseinimehr, S.J. and Shahabimajd, N. (2006) Antioxidant activity, phenol and flavonoid contents of some selected Iranian medicinal plants, *Afri. J. Biotech.,* 5(11), 1142-1145.

Pradeep, K., Mohan, C.V., Gobianand, K. and Karthikeyan, S. (2007) Effect of *Cassia fistula Linn.* leaf extract on diethyl nitrosamine induced hepatic injury in rats, *Chem. Biol. Interact.,* 167, 12-18.

Pradhan, D., Tripathy, G. and Patnaik, S. (2012) Screening of antiproliferative effect of *Limonia acidissima Linn*. fruit extracts on human breast cancer cell lines, *Afri. J. Pharma. Pharma.,* 6(7), 468-473.

Prakash, D. and Gupta, K. R. (2009) The antioxidant phytochemicals of neutraceutical importance, *The Open Nutra. J.,* 2, 20-35.

Pramila, D. M., Xavier, R., Marimuthu, K., Kathiresan, S., Khoo, M. L., Senthilkumar, M., Sathya, K. and Sreeramanan, S. (2012) Phytochemical analysis and antimicrobial potential of methanolic leaf extract of pepper mint (*Mentha piperita: Lamiaceae*), *J. Med. Plants .Res.,* 6(2), 331-335.

Prasad, A.G.D., Kumar, J.K. and Sharanappa, P. (2011) Fourier transforms infrared spectroscopic study of rare and endangered medicinal plants, *Rom.J. Biophy.,* 21(3), 221-230.

Prasad, K.N., Yang, B., Dong, X., Jiang, G., Zhang, H., Xie, H. and Jiang, H. (2009) Flavonoid contents and antioxidant activities from *Cinnamomum* species, *Inno. Food.Sci. Emer.Tech.,* 10, (4), 627-632.

Prasad, S. B., Vermaa, A. K., Rosangkimaa, G., Brahmaa, B., Rongpia, Thengtom, A. and Arjunb, J. (2010) Antitumor activity of *Mylabris cichorii* extracts against murine Ascites Dalton's Lymphoma, *J.Pharma. Res.,* 3(12), 3006-3009.

Prashanth, D., Asha, M. K., and Amit, A. (2001) Antibacterial activity of *Punica granatum*, *Fitoterapia.,* 72, 171-173.

Prior, R.L., Wu, X. and Schaich, K. (2005) Standardized methods for the determination of antioxidant capacity and phenolics in foods and dietary supplements, *J. Agri. Food. Chem.,* 53, 4290-4302

Priya, T.T., Sabu, M.C. and Jolly, C.I. (2008) Free radical scavenging and anti-inflammatory properties of *Lagerstroemia speciosa (L.), Inflamm.Pharma.,* 16, 182-187.

Qiao, M., Kisgati, M., Cholewa, J.M., Zhu, W., Smart, E.J., Sulistio, M.S. and Asmis, R. (2010) Increased expression of Glutathione reductase in macrophages decreases atherosclerotic lesion formation in low-density lipoprotein receptor deficient mice, *Arterioscler. Throm. Vas. Biol.,* 27, 1375-1382.

Qin, H., Zhou, C., Wang, D., Ma, W., Liang, X., Lin, C., Zhang, Y. and Zhang, S. (2006) Enhancement of antitumor immunity by a novel chemotactic antigen DNA vaccine encoding chemokines and multiepitopes of prostate-tumor-associated antigens, *Immunol.,* 117, 419-430.

Qureshi, S.A. Asad, W. and Sultana, V. (2009) The effect of *Phyllantus emblica Linn* on Type - II diabetes, triglycerides and liver - specific enzyme, *Pak. J. Nutri*., 8 (2), 125-128.

Raaman, N. (2006) Phytochemical Techniques, New Publishing Agency, New Delhi, 19(24), 32-40.

Radha, P. and Padma, P.R. (2012) Antioxidant effect of *Majorana hortensis* leaves, *Int. J. Res. Ayurveda.Pharma.,* 2 (4), 1365-1367.

Radha, R. (2010) Antitumor activity of methanolic extract of *Plumeria alba L*. leaves against Dalton Lymphoma Ascites in mice, *Int. J. Health. Res.,* 1(2), 79-85.

Radha, R. and Sivakumar, T. (2009) *In vitro, in vivo* anticancer activity of leaves of *Plumeria alba (Linn). J. Pharm. Res.,* 2, 203-207.

Radha, R., Kavimani, S. and Ravichandran, V. (2008) Antitumor activity of methanolic extract of *Plumeria alba L.* leaves against Dalton Lymphoma Ascites in mice, *Int. J. Health. Res.,* 1(2), 79-85.

Ragavendran, P., Sophia, D., Arul Raj, C. and Gopalakrishnan, V.K. (2011) Functional group analysis of various extracts of *Aerva lanata (L.)* by FT-IR spectrum, *Pharma. Onl.* 1, 358-364.

Rahman, K. (2007) Studies on free radicals, antioxidants, and co-factors, *Clini. Intervent. Aging.,* 2(2), 219-236.

Rahman, M.M. and Hossain, M.N. (2010) Antibiotic and herbal sensitivity of some *Aeromonas sp*. isolates collected from diseased carp fishes, *Progress. Agri.,* 21(1 - 2), 117-129.

Rai, S., Wahile, A., Mukherjee, K., Saha, B.P. and Mukherjee, P.K. (2007) Antioxidant activity of *Nelumbo nucifera* (sacred lotus) seeds, *J. Ethnopharmacol.,* 104, 322-327.

Raihan, O., Tareq, S.M., Brishti, A., Alam, K., Haque, A. and Ali, S. (2012) Evaluation of antitumor activity of *Leea indica (Burm.f.)* Merr. extract against Ehrlich Ascites Carcinoma (EAC) bearing mice, *Am. J. Biomed. Sci.,* 4(2), 143-152.

Rajakaruna, N., Cory, S., Harris, S. and Towers G.H.N. (2002) Antimicrobial activity of plants collected from serpentine, *Pharm.Biol.,* 40(3), 235-244.

Rajan, S., Mahalakshmi, S, Deepa, V.M., Sathya, K., Shajitha, S. and Thirunalasundari, T. (2011) Antioxidant potentials of *Punica granatum* fruit rind extracts, *Int. J. Pharma. Sci.,* 3 (3), 82-88.

Rajeshkumar, B., Venugopal, Y., Harikrishnan, N., Gobinath, M. and Ravichandram, V. (2008) Protective effect of *Phyllanthus amarus* on acetaminophene induced hepatotoxicity in rats, *Pak. J. Sci.,* 21 (1), 57-62.

Rajeshwar, Y., Gupta, M. and Mazumder, U.K. (2005) Antitumour activity and *in vivo* antioxidant status of *Mucuna pruriens* (*Fabaceae*) seeds against Ehrlich ascites carcinoma in Swiss albino mice, *Int. J. Pharma. Tech.,* 4(1), 46-53.

Rajeshwari, C.U. and Andallu, B. (2011) Oxidative stress in Non Insulin Dependent Diabetes Mellitus (NIDDM) patients: influence of Coriander (*Coriandrum sativum*) seeds, *Res. J. Pharma. Biol. Chem. Sci.,* 2(1), 31-41.

Rajkapoor, B., Ravichandran, V., Gobinath, M., Anbu, J., Harikrishnan, N., Sumithra, M., Sankari, M., Venugopal, R. and Sakthisekaran, D. (2007) Effect of *Bauhinia variegata* on complete Freund's adjuvant induced arthritis in rats, *J. Pharmacol. Toxicol.,* 2,465-72. doi:10.3923/jpt.2007.465.472.

Ramalakshmi, S. Muthuchelian, K. (2011) Analysis of bioactive constituents from the leaves of *Mallotus tetracoccus* (Roxb) mKurz by Gas Chromatography - Mass Spectrometry, *Int. J.Pharm.Sci.Res.*2 (6), 1449-1454.

Ramasamy, K. and Agarwal, R. (2008) Multitargeted therapy of cancer by silymarin, *Cancer. Lett.,* 269(2), 352-362.

Ramesh, B. and Satakopan, V. N. (2010) *In vitro* antioxidant activity of *Ocimum* species: *Ocimum basilicum* and *Ocimum sanctum, J. Cell.Tissue Res.,* 10(1), 2145-2150.

Rao, A.S.V.C., Reddy, S.G., Babu, P.P. and Reddy, A.R. (2010) The antioxidant and antiproliferative activities of methanolic extracts from Njavara rice bran, BMC *Compl. Alter. Med.,* 10, 4.

Rather, R. A., Swetha, C. and Rajagopal, K. (2010) Screening of peel extracts as antioxidants, anticancer agents and antimicrobials, *Adv. Bio.Res.*, 1(1), 29-33.

Ravichandran, N., Vajrai, R., Raj, D. and Brindha, P. (2012) Phytochemical analysis and *in vitro* cytotoxic effect of *Phyllanthus madraspatensis L., Int. J. Pharma. Pharma. Sci.,* 4(2), 111-114.

Razali, N., Razab, R., Junit, S.M. and Aziz, A.A. (2008) Radical scavenging and reducing properties of extracts of cashew shoots (*Anacardium occidentale*), *Food Chem.,* 111, 38-44.

Re, R., Pellegrini, N., Proteggente, A., Pannala, A., Yang, M. and Rice-Evans, C. (1999) Antioxidant activity applying an improved ABTS radical cation decolorisation assay, *Free. Rad. Biol. Med.,* 26, 1231-1237.

Reddy, M.V.N., Reddy, G.C.S., Kumar, K.S., Reddy, C.S. and Raju, C.N. (2010) Synthesis, antioxidant and antimicrobial activity of novel benzene-1, 4-diamine-bis-dioxaphosphepine-6λ 5 iminophos- phoranes. *J. Heterocycl. Chem.* 47, 538-542.

Reddy, S.K., Mohan Krishna, R., Debashrita Sahoo, L. and Mallick, J. (2012) *In vitro* antioxidant activity of ultra-sonic bath assisted ethanol extract of *Abutilon indicum l.* Leaf, *Int. J.Pharma.Devel.Tech.,* 2 (2), 2012, 77-79.

Reitman, S. and Frankel, A. S. (1957) A colorimetric method for the determination of serum glutamic oxaloacetic and glutamic pyruvic transaminases, *Am. J. Clin. Pathol.,* 28(1), 56-63.

Roberfroid, M. and Calderon, P.B. (2008) Free radicals and oxidation phenomena in biological systems, Dekker, New York, 81-263.

Roe, J. H. and Keuther, C. A. (1953) The determination of ascorbic acid in whole blood and urine through 2, 4-dinitrophenylhydrazine derivative dehydro ascorbic acid, *J. Biol. Chem.,* 147, 399-407.

Romieu, I., Giner, F.C, Kunzli, N. and Sunyer, J. (2008) Air pollution, oxidative stress and dietary supplementation: a review, *Eur. Respir. J.,* 31, 179-197.

Rosenberg, H. R. (1992) Chemistry and physiology of the vitamins, *Interscience Publishers, New York,* 452-453.

Ross, S.A. (2007) Nutritional genomic approaches to cancer prevention research, *Exp. Oncol.*, 29, 250-256.

Rotruck, J. T., Pope, A. L., Ganthar, H. E., Hafeman, D. G. and Hockstraw, G. (1973) Selenium: Biochemical role as a component of glutathione peroxidase, *Sci.,* 179, 588-590.

Ruch, R.J, Cheng, S.J. and Klaunig, J.E. (1989) Prevention of cytotoxicity and inhibition of intracellular communication by antioxidant catechins isolated from Chinese green tea, *Carcinogen.,* 10, 1003-1008.

Rumzhum, N.N., Rahman, M. Khalequzzaman, K. Kazal, P. (2012) Antioxidant and cytotoxic potential of methanol extract of *Tabernaemontana divaricata* leaves *Int. Curr. Pharma. J.* (2), 27-31.

Runa, G.H. and Li, G.K. (2007) The study on the chromatographic fingerprint of *Fructus xanthii* by microwave assisted extraction coupled with GC-MS, *J.Chromat.,* 850, 241-248.

Sadasivan, S., Latha, P.G., Sasikumar, J.M., Rajashekaran, S., Shyamal, S. and Shline, V.J. (2006) Hepatoprotective studies on *Hedyotas conjmbosa* (L.) *Lam. J. Ethnopharmacol.,* 106, 245-249.

Saha, M.R., Hasana, S.M.R., Aktera, R., Hossaina, M.M., Alamb,M.S., Alam, M.A.and M. E. H. Mazumderc, M.E.H. (2010a) *In vitro* free radical scavenging activity of methanol extract of the leaves of *Mimusops elengi* (*Linn*), *Bang. J. Vet. Med.,* 6 (2), 197-202.

Saha, S., Banerjee, S. and Ganguly, S. (2010b) Molecular docking studies of some novel hydroxamic acid derivatives, *Int. J. Chem. Tech. Res.,* 2(2), 932-936.

Saikat, S., Chakraborty, R., Sridhar,C., Reddy, Y. S. R. and Biplab, D. (2010) Free radicals, antioxidants and phytomedicines:current status and future prospect, *Int. J. Pharma. Sci .Rev. Res.,* 3(1), 91-100.

Saklani, S., Chandra, S., Bodani, P.P. and Dogra, S. (2012) Antimicrobial activity, nutritional profile and phytochemical screening of wild edible fruit of *Rupus ellipticus*, *Int. J. Med. Aromatic. Plants*., 2(2), 271-274.

Salomi, M.J. and Panikkar, K.R. (1989) Cytotoxic action of *Nigella sativa* seeds. *Amala. Res. Bull.,* 9, 17-21.

Samak, G., Shenoy, R.P., Manjunatha, S.M. and Vinayak, K.S. (2009) Superoxide and hydroxyl radical scavenging actions of botanical extracts of *Wagatea spicata*, *Food. Chem.,* 115, 631-634.

Sambathkumar, R., Sivakumar, P. and Nethaji, R. (2005) Hepatoprotective and *in vivo* antioxidants effects of *Careya arborea* against carbon tetrachloride induced liver damage in rats, *Int. J. Mol. Med. Adv. Sci.,* 1 (4), 418 -424.

Sangameswaran B., Sunil, P.P., Saluja, M.S. and Ajay Sharma, D. (2012) Antitumor activity of *Sida veronicaefolia* against Ehrlich Ascites Carcinoma in mice, *J. Pharm. Res*, 5(1),315-319.

Sanghani, H.V., Ganatra, S.H. and Pande, R. (2012) Molecular docking studies of potent anticancer agent, *J. Computer Sci. Sys. Biol.,* 5(1), 12-15.

Sankar, D., Ali, A., Raman, S. Uehara, Y. and Ganapathy, S. (2010) Antioxidative capacity of hydrochlorothiazide and atenolol in long term hypertension therapy, *J. Chin. Clini. Med.,* 5(3), 123-129.

Santhi, R. and Annapoorani, S. (2009) Antioxidantive role of *Terminalia catappa* leaf protein against ELA induced mice*, Int. J. Drug. Dev. Res*., 1, 81-84.

Santhi, R. and Annapoorani, S. (2010) Efficacy of *Cynodon dactylon* for immunomodulatory activity*, Drug .Invent. Today.,* 2(2), 112-114.

Santhi, R., Kalaiselvi, K. and Annapoorani, S. (2010) Antioxidant efficacy of *Cynodon dactylon* leaf protein against ELA implanted Swiss albino mice, *J. Pharma. Res.,* 3(2), 228-230.

Santini, V., Gozzini, A. and Ferrari, G. (2007) Histone deacetylase inhibitors: molecular and biological activity as a premise to clinical application, *Curr. Drug Meta.*, 8, 383-393.

Saradhadevi, K.M. and Annapoorani, S. (2011) Antioxidative and Antitumourigenic activity and phytochemical constituents of methanolic extract in GC-MS of *Gloriosa superba* leaves*, J. Pharma. Res.,* 3(2), 228-230.

Saravanan, R. and Pugalendi, K.V. (2005) Assessment of the pharmacological effect of Silymarin on ethanol-induced DNA damage by single-cell el electrophoresis, *Ind. J. Pharmacol.,* 37(4), 261-262.

Sarma, M.D., Ghosh, R., Patra, A. and Hazra, B. (2007) Synthesis and antiproliferative activity of some novel derivatives of diospyrin, a plantderived naphthoquinonoid, *Bioorg. Med. Chem.,* 15, 3672-3677.

Saroja, M. and Annapoorani, S. (2012a) Antitumour activity of methanolic extract of *Cynodon dactylon* leaves against Ehrlich ascites induced carcinoma in mice, *J. Adv. Sci. Res.,* 3(1), 105-108.

Saroja, M. and Annapoorani, S. (2012b) Antilipid peroxidative role of flavonoid fraction of *Cyanodon dactylon* against ELA mediated cell damage*, Int. Res. J. Pharma.,* 3(1), 181-185.

Saroja, M., Santhi, R. and Annapoorani, S. (2012) Evaluation of Antitumour and Antioxidant activity of flavonoid fraction of *Terminalia Catappa* against Ehrlich Ascites Carcinoma in mice, *Int. J. Drug Develop. Res.,* 4 (2), 180-187.

Sasikala, V., Saravana, S. and Parimelazhagan, T. (2011) Evaluation of antioxidant potential of different parts of wild edible plant *Passiflora foetida L., J. Appl. Pharma. Sci.,* 1 (4), 89-96.

Sasikumar, J.M., Jinu, U. and Shamna, R. (2009) Antioxidant activity and HPTLC analysis of *Pandanus odoratissimus L. root, Euro. J. Bio. Sci.,* 1 (2), 17-22.

Sasikumar, J.M., Maheshu, V., Smilin Bell Aseervatham, G. and Teepica Priyadarsini, D. (2010) *In vitro* antioxidant activity of *Hedyotis corymbosa (L.) Lam.,* aerial parts, *Ind. J. Biochem. Biophy.,* 47, 49-52.

Saumya, D., Priya, B.S., Kumar, D.M. and Sanjita, D. (2011) Plants as rich source of antimalignant agents, *Pharmatutor. Art.,* 1208.

Savitha, S. Rao, D. V. and Sharma, R. A. (2011) *In-vitro* and *In-vivo* antioxidant activity and total phenolic content of *Pongamia pinnata (L.) Pierre:* An important medicinal plant, *Int. J.Biotech.,* 4 (6), 568-574.

Searls, D.B. (2000) Using bioinformatics in gene and drug discovery, D*rug Discov. Today.,* 5, 135-143.

Segura, J.A., Barero, L.G. and Marquez, J. (2000) Ehrlich ascites tumor unbalances splenic cell populations and reduced responsiveness of T-cells to *Staphylococcus aureus* enterotoxin B stimulation, *Immuno. Lett*., 74, 111-115.

Senthilkumar R., Rajkapoor, B. and Perumal, P. (2011) Antitumor and Cytotoxic activities of methanol extract of *Indigofera linnaei, Asian. Pacific. J. Cancer Prevent.* 12*,* 613-618.

Senthilkumar, N., Badami, S., Santoshkumar, H. and Bhojraj, S. (2008) Antioxidant and hepatoprotective activity of the methanol extract of *Careya arborea* bark in Ehrlich Ascites Carcinoma-bearing mice, *J. Nat. Med .,* doi:10.1007/s11418-008-0237-0, 62, 336-339.

Seyyednejad, S.M. and Motamedi, H. (2010) A reviews on native medicinal plants in Khuzestan, Iran with antibacterial properties, *Int. J. Pharmocol.,* 6, 551-560.

Shahjahan, M., Sabitha, K.E., Mallika Devi, R. and Shyamala, C.S. (2004) Effect of medicinal plants on tumourogenesis, *Ind. J. Med. Res.,* 123 (5-8), 23-27.

Shaker, I.A., Inampudi, S. and Rayapu, V. (2012) Antimicrobial activity assay of *Tabernaemontana coronaria*, *Int. J. Biol.,* 1 (7), 4-5.

Shalini, S. and Sampathkumar, P. (2012) Phytochemical screening and antimicrobial activity of plant extracts for disease management, *Int. J. Curr. Sci*., 209-218.

Shao, H., Chu, L., Lu, Z. and Kang, C. (2007) Primary antioxidant free radical scavenging and redox signaling pathways in higher plant cells, *Int. J. Biol. Sci.,* 4 (1), 8-14.

Shao, H.B., Bhu, L.Y., La, Z.H. and Kang, C.M. (2008) Primary antioxidant free radical scavenging and redox signaling pathways in higher plant cell, *Int. J. Biol. Sci.,* 4, 8-4.

Sharma, V. and Gupta, R. (2011) Hepatoprotective effect of ethanolic extract of *Tinospora cordifolia* root extract on Aflatoxin B1-induced hepatic damage in mice, *J. Pharma. Res.,* 4(6), 1754-1756.

Sheela, M.L., Ramakrishna, M.K. and Salimath, B.P. (2006) Angiogenic and proliferative effects of the cytokine VEGF in Ehrlich Ascites tumor cells is inhibited by *Glycyrrhiza glabra*, *Int. Immuno. Pharm.,* 6, 494-498.

Shekhawat, N., Soam, P.S., Singh, T. and Vijayavergia, R. (2010) Assessment of free radical scavenging activity of crude extracts of some medicinal plants, *Middle East J. Sci. Res.,* 5(4),298-301.

Shen, J., Cheng, F., Xu, Y., Li, W. and Tang, Y. (2010) Estimation of ADME Properties with substructure pattern recognition, *J. Chem. Inf. Model.,* 50 (6), 1034-1041.

Shihabudeen, M. S., Priscilla, H. H. D. and Thirumurugan, K. (2010) Antimicrobial activity and phytochemical analysis of selected Indian folk medicinal plants, *Int. J. Pharma. Sci. Res.,* 1(10), 430-434.

Shirwaiar, A., Shirwaikar, A. and Punitha, I.S.R. (2007) Antioxidant studies on the methanol stem extract of *Coscinium fenestratum*, *Nat. Prod. Sci.,* 13(1), 40-45.

Shiwaiker, A., Rajendran, K. and Kumar, C. D. (2006) *In vitro* antioxidant studies of *Annona squamosa Linn* Leaves, *Ind. J. Exper. Biol.,* 42, 803-807.

Shoti, H. and Leach, A. R. (2007) Structure-Based Drug Discovery, *Springer*, Berlin.

Shylesh, B.S., Nair, S.A., Subramonian, A. (2005) Induction of cell - specific apoptosis and protection from Dalton's Lymphoma challenge in mice by an active fraction from *Emilia sonchifolia, Indian. J. Pharma.,* 37 (4), 232-237.

Siddhuraju, P. and Becker, K. (2007) The antioxidant and free radical scavenging activities of processed cowpea (*Vigna unguiculata (L.) Walp.*) seed extracts, *Food.Chem.,* 101, 10-19.

Siddique, N.A., Mujeeb, M., Najami, A.K. and Akram, M. (2010) Evaluation of antioxidant activity quantitative estimation of phenols and flavanoids in different parts of *Aegle marmelos*, *Afr. J. Plant Sci.,* 4 (1), 001- 005.

Siddiqui, A.A. and Ali, M. (1997) Practical pharmaceutical chemistry, 1st ed, CBS Publishers and Distributors, New Delhi, 126-131.

Silva, S.L.D., Figueiredo, P.M.S. and Yano, T. (2007) Chemotherapeutic potential of the volatile oils from *Zanthoxylum rhoifolium Lam* leaves, *Eur. J. Pharma.,* 576, 180-188.

Sinclair, A.J., Barnett, A.H. and Lunie, J. (1990) Free radical and auto-oxidant systems in health and disease*, British J. Hospit. Med.*, 43, 334-44.

Singh, G.K., Vandana M. A., Mourya, M. and Swami, A. (2011) Evaluation of antioxidant activities of hydro-alcoholic extracts of aerial parts of *Ficus racemosa L., World. J. Sci. Tech.,* 1(10), 6-10

Singh, L., Kaur, N., and Kumar, P. (2009) Reactive oxygen species, oxidative damage and antioxdantive defense systems with emphasis on herbal antioxidants and human and cattle health, *Biochem. Cell. Arch.,* 9(2), 135-144.

Singh, R.P., Murthy, K.N.C. and Jayaprakash, G.K. (2002) Studies on the antioxidant activity of Pomegranate (*Punica granatum*) peel and seed extracts using *in vitro* models, *J. Agri. Food. Chem.,* 50, 81-96.

Sini, K.R. Haribabu, Y. and Sangeetha, P.T. (2012) Antioxidant potential of leaf extract of *Orthosiphon thymiflorus (Roth.)* Sleensen, *Int. J. Pharm.Tech. Res.,* 3(2), 955-959.

Sivakumar, P., Kumar, R.S. and Sivakumar, T. (2008) Antitumor and antioxidant activities of *Triumfetta rhomboidea* against DLA bearing Swiss albino mice, *J. Med. Sci.,* 2(4), 23-208.

Sivaprabha, J., Sumathi, S., Dharani, B. and Padma, P.R. (2011) Radical scavenging activity of leaves and Rhizomes of *Curcuma amada*, *Int. J. Pharma. Res. Develop.,* 3(6), 167-174.

Sivaraj, A., Vinothkumar, P., Sathiyaraj, K. Sundaresan, S. Devi, K. and Senthilkumar, B. (2011) Hepatoprotective potential of *Andrographis paniculata* aqueous leaf extract on ethanol induced liver toxicity in albino rats, *J. Appl. Pharma. Sci.,* 1 (6), 204-208.

Skottova, N., Vecera, R., Urbanek, K., Vana, P., Walterova, D.and Cvak, L. (2003) Effects of polyphenolic fraction of silymarin on lipoprotein profile in rats fed cholesterol-rich diets, *Pharmacol. Res.,* 47(1), 17-26.

Sobolova, L., Skottova, N., Vecera, R. and Urbanek, K. (2006) Effect of silymarin and its polyphenolic fraction on cholesterol absorption in rats, *Pharmacol. Res.,* 53(2), 104-112.

Song, C.M., Lim, S.J. and Tong, J.C. (2009) Recent advances in computer-aided drug design, *Brief. Bioinf.,* 10, 579-591.

Sophia, D., Ragavendran, P., Arulraj, C. and Gopalakrishnan, V.K. (2011) *In vitro* antioxidant activity and HPTLC determination of n-hexane extract of *Emilia sonchifolia* (L.) DC, *J. Basic. Clini. Pharm.,* 2(4), 179-183.

Soto, C., Mena, R., Luna, J., Cerbon, M., Larrieta, E., Vital, P., Uria, E., Sanchez, M., Recoba, R., Barron, H., Favari, L. and Lara, A. (2004) Silymarin induces recovery of pancreatic function after alloxan damage in rats, *Life Sci.,* 75(18), 2167-2180.

Soulsby, E.J. (2005) Resistance to antimicrobials in humans and animals, *Br. J. Med.,* 331, 1219-1220.

Soumya, D. and Kumar, A. R. (2011) A brief assessment on cervical cancer, *J. Cancer Sci. Ther.*, S17, 1-5.

Sowemimo, A., Van de Venter, M., Baatjies, L. and Koekemoer, T. (2009) Cytotoxic activity of selected Nigerian plants, *Afr. J. Trad.,* CAM, 6 (4), 526 -528.

Sreelatha, S. and Padma, P.R. (2009) Antioxidant activity and phenolic content of *Moringa oleifera* leaves in two stages of maturity, *Plant. Foods Hum. Nutr.,* 64, 303-311.

Sreena, K.P., Poongothai, A., Sreejith, K., Uthiralingam, S. and Annapoorani, S. (2011) *In vitro* radical scavenging efficacy of different organic extracts of *Nerium indicum* leaves, *Pharmacol. Onl.,* 1,155-162.

Stahl, W. and Sies, H. (2007) Antioxidant effects of carotenoids: Implications in photoprotection in humans In: Handbook of antioxidants 2nd ed, New York, 223-33.

Stankovic, M.S., Topuzovic, M., Solujic, S. and Mihailovic, V. (2010) Antioxidant activity and concentration of phenols and flavanoids in the whole plant and plant parts of *Teucrium chamaerdys L. Var. Glanduliferum haussk*, *J. Med. Plants.Res.,* 4(20), 2092-2098.

Stehfest, K., Toepel, J. and Wilhelm, C. (2005) The application of micro FT-IR spectroscopy to analyze nutrient stress-related changes in biomass composition of phytoplankton algae, *Plant Physiol. Biochem.,* 43, 717-726.

Subhadradevi, V., Khairunissa, K., Asokkumar, K., Umamaheswari, M., Sivashanmugam, A. and Jagannath, P. (2011) Induction of apoptosis and cytotoxic activities of *Apium graveolens (Linn.)* using *in vitro* models, *J. Sci. Res.* 9 (1), 90-94.

Sudhakar, M., Rao, C.V., Rao, P.M., Raju, D.B. and Venkateswarlu, Y. (2006) Antimicrobial activity of *Caesalpinia pulcherrima*, *Euphorbia hirta* and *Asystasia gangeticum, J. Fitoterpia.*, 77, 378-380.

Sun, Y., Oberley, L.W., Elwell, J.H. and Sierra, R. E. (1989) Antioxidant enzyme activities in normal and transformed mice liver cells, *Int. J. Cancer.,* 44, 1028-33.

Sundaresan, B. and Subbiah, M. (2012) Antitumor activity of *Chondrococcus hornemanni* and *Spyridia fusiformis* on Dalton's Lymphoma Ascites in mice, *Bangladesh. J. Pharmacol.,* 7, 173-177.

Sunila, E.S. and Kuttan, G. (2004) Immunomodulatory and antitumor activity of *Piper longum Linn* and piperine, *J. Ethnopharmacol.,* 90, 339 - 346.

Suresh Kumar, S.V. and Mishra, S.H. (2008) Hepatoprotective effect of *Pergularia daemia* (Forsk.) ethanol extract and its fraction, *Indian. J. Exp. Biol.,* 46,447-52.

Sutharson, L., Prasanna Kumar, K., Shila, N.K, Besra, E., Joseph, R.V.S. and Khandelwal, K R. (2009) Practical Pharmacognosy, *Nirali Prakashan*, Pune.149.

Talukdar, A.D., Tarafdar, R.G., Choudhury, M.D., Nath, D. and Choudhury, S. (2011) A review on pteridophyte antioxidants and their potential role in discovery of new drugs, *Assam. Uni. J. Sci.Tech.,* 7(1), 151-155.

Tenpe, C.R., Upaganlawar, A., Sushil, B. and Yeole, P.G. (2009) *In vitro* antioxidant and preliminary hepatoprotective activity of *Oroxylum indicum* vent leaf extracts, *Pharmacol.,* 1,35-43.

Thamizh Selvam, N., Krishnayathi, K., Sanjaya kumar, Y.R. Saraswathy, V.N., Venugopalan, T.N. and Jaya, N. (2010) Hepatoprotective activity of methanolic

extract of *Cinnamomum tamala* (Nees) against paracetamol intoxicated Swiss albino mice, *Int. J. Pharma.World. Res.,* 2, 1-13.

Thara, K.M. and Zuhra, K.F. (2012) Confertin, myricetin and diaminobutryic acid are found to present in the methanol extract of *Saussurea lappa* and it showed anti-proliferative effect on DLA cell lines and inhibitory effect on the growth of microbial organisms, *J.Pharm. Res.,* 5 (3), 1559-1564.

Thenmozhi, M., Bhavya, P.K. and Rajeshwari, S. (2011) Compounds identification using HPLC and FT-IR In *Eclipta alba* and *Emilia Sonchifolia, Int. J. Eng. Sci. Tech.,* 3(1), 292-298.

Thippeswamy, G. and Salimath, B.P. (2007) Induction of caspase-3 activated DNase mediated apoptosis by hexane fraction of *Tinospora cordifolia* in EAT cells, *Environ. Toxicol. Pharmacol.,* 23, 212-220.

Thirupathi, K., Krishna, D.R., Ravi Kumar, B., Apparao, A.V.N. and Krishna, G.M. (2009) Hepatoprotective effect of leaves of *Balanites roxburghii* against carbon tetrachloride-induced hepatic damage in rats, *Curr.Trends.Biotech. Pharm.,* 3(2), 219-224.

Tiwari, A., Jadon, R.S., Tiwari, P. and Nayak, S. (2009) Phytochemical investigations of Crown of *Solanum melongena* fruit, *Int. J. Phytomed.*, 1, 9-11.

Turk, G., Sonmex, M., Aydin, M., Yuce, A., Gur, S., Yuksel, M., Aksu, E.H. and Aksoy, H. (2008) Effects of pomegranate juice consumption on sperm quality, spermatogenic cell density, antioxidant activity and testosterone level in male rats, *Clini. Nutri.*, 27(2), 289-296.

Tyagi, A., Bhatia, N., Condon, M.S., Bosland, M.C., Agarwal, C. and Agarwal, R. (2002) Antiproliferative and apopototic effects of silibinin in rat prostate cancer cells, *Prost.,* 53(3), 211-217.

Umamaheswari, M., Asokkumar, K., Lalitha, V., Sivashanmugam, A.T. and Subhadradevi, V. (2011) Anticataract and antioxidant activities of *Citrus aurantium L.* peel extract against naphthalebene induced cataractogenesis in rats, *J. Pharm. Res.,* 4(3), 680-682.

Uttara, J.P. and Mishra, S.H. (2008) Evaluation of aqueous and methanol extracts of *Pistacia integerrima* galls as potential immunomodulator, *Phcog. Mag.,* 4(14), 126-131.

Uyigue, P. O. and Anukam, K. (2011) Monitoring of enteric fever and diarrhea causing bacteria in a rural setting in Nigeria, *J. Bacter. Res.,* 3(5), 88-91.

Vadlapudi, V. and Chandrashekar Naidu, K. (2010) *In vitro* bioactivity of Indian medicinal plants *Lantana camara* and *Mimosa pudica* against important pathogens, *Annal. Biol. Res.,* 1(1), 98-101.

Valko, M., Leibfritz, D., Moncol, J., Cronin, M.T.D., Mazur, M. and Telser, J. (2007) Free radicals and antioxidants in normal physiological functions and human disease, *Int. J. Biochem.Cell. Biol.,* 39, 44-84.

Valko, M., Morris, H. and Cronin, M.T.D. (2005) Metals, toxicity and oxidative stress, *Curr. Med. Chem.,* 12, 1161-1208.

Valko, M., Rhodes, C.J, Moncol, J., Izakovic, M. and Mazur, M. (2006) Free radicals, metals and antioxidants in oxidative stress-induced cancer, *Chem. Biol. Interact.,* 160(1), 1-40.

Valko, M., Izakovic, M., Mazur, M., Rhodes, C.J. and Telser, J. (2004) Role of oxygen radicals in DNA damage and cancer incidence, *Mol. Cell. Biochem.,* 266(1-2), 37-56.

Venkatachalam, R. N., Singh, K. and Marar, T. (2012) Phytochemical screening and *in vitro* antioxidant activity of *Psidium guajava*, *Free. Rad. Anti.,* 2(1), 31-36.

Venukumar, M.R. and Latha, M.S. (2002) Antioxidant activity of *Curculigo* orchioides in carbon tetrachloride induced hepatopathy in rats, *Ind. J. Clini. Biochem.,* 17 (2), 80-87.

Vijayarathna, S., Zakaria, Z., Chen, Y., Yoga Latha, L., Jagat, R. K. and Sasidharan, S. (2012) The antimicrobial efficacy of *Elaeis guineensis:* characterization, *in vitro* and *in vivo* studies, *Mol.,* 17, 4860-4877. doi:10.3390/molecules17054860.

Villanueva, H.E. and Setzer, W.N. (2010) Cembrene diterpenoids: conformational studies and molecular docking to tubulin, *Rec. Nat. Prod.,* 4 (2) 115-123.

Vimalvady, A., Kadavul, K. and Tangavelou, A.C. (2012) Phytochemical screening and antimicrobial activity on the fruits of *Hugonia mystax L.* (*Linaceae*), *Int. J. Pharma. Sci. and Res.*, 3(4), 1178-1183.

Virga, K.G., Zhang, Y.M., Leonardi, R., Ivey, R.A., Hevener, K., Park, H.W., Jackowski, S., Rock, C.O. and Lee, R.E. (2006) Structure-activity relationships and enzyme inhibition of pantothenamide-type pantothenate kinase inhibitors, *Bioorg. Med. Chem.,* 14, 1007-1020.

Virupakshaiah, D.B.M., Kelmani C., Patil, R., and Hegade P. (2007) Computer aided docking studies on antiviral drugs for SARS, World academy of science, *Eng. Tech.,* 297-299.

Vuillaume, M. (1987) Reduced oxygen species, mutation, induction and cancer initiation, *Mut. Res.,* 186(1), 43-72.

Wagner, H. and Bladt, S. (1996) Plant drug analysis- Thin layer chromatography Atlas, 2nd ed. *Springer*, 95-105.

Wang, M., Li, J., Rangarajan, M., Shao, Y., Voie, E.J., Huang, T. and Ho, C. (1998) Antioxidative phenolic compounds from Sage (*Salvia officinalis*). *J. Agri. Food.Chem.*, 46, 4869 - 4873.

Waterbeemd, H.V. and Gifford, E. (2003) ADME *in silico* modelling: towards prediction paradise, *Nat. Rev. Drug. Discov.*, 2, 192-204.

Wink, D.A., Kasprzak, K.S., Maragos, C.M., Elespuri, R.K., Misra, M., Dunams, T.M., Cebula, T.A., Andrews, A.W., Allen, J.S. and Keefer, L.K. (1991) DNA deaminating ability and genotoxicity of nitric oxide and its progenitors, *Sci.,* 254, 1001-1003.

Winston, G.W. and Di Giulio, R.T. (1991) Peroxidant and antioxidant mechanisms in aquatic organisms, *Aquat. Toxicol.,* 19(2), 137-161.

Wu, D. and Cederbaum, A.I. (2004) Alcohol, oxidative stress and free radical damage, *Alcohol. Res. Health*., 27(4), 277-84

Wu, X.B., Tian, X.Y., Ji, J.J., Wu, W.B., Fan, K.Q. and Yang, K.Q.(2011) Saturation mutagenesis of *Acremonium chrysogenum* deacetoxy/deacetylcephalosporin C synthase R308 site confirms its role in controlling substrate specificity, *Biotech. Lett*., 33(4), 805-12.

Wu, Z., Zhao, Y. and Zhao, B. (2010) Superoxide anion, uncoupling proteins and Alzheimers diseases, *J. Clin. Biochem. Nutri.,* 46, 187-194.

Xu, X., Moses, M. K., Jiang, X., Benjamin, J. T. and David, J.T. (2009) Chemical probes that competitively and selectively inhibit stat activation, PLoS one, 4, 4783.

Yadav, Y.C., Srivastava, D.N., Saini, V., Seth, A.K., Singhal, S., Kumar, S., Ghelani, T.K. and Malik, A. (2011) *In-vitro* antioxidant activities of methanolic extract of *Ficus religiosa*, *Int. J. Pharma. Sci.*, 2(3), 254-264.

Yan, H., Gui, Z. and Wang, B. (2011) A study on effects of glutathione S transferase from silkworm on CCl_4 induced mouse liver injury, *Pak. J. Pharma. Sci.,* 24(1), 1-5.

Yanaida, Y., Kohno, H., Yoshida, K., Hirose, Y., Yamada, Y., Mori, H. and Tanaka, T. (2002) Dietary silymarin suppresses 4-nitroquinoline 1-oxide-induced tongue carcinogenesis in male F344 rats, *Carcinogen.,* 23(5), 787-794.

Yang, J. and Yen, H.E. (2002) Early salt stress effects on the changes in chemical composition in leaves of ice plant and Arabidopsis. A Fourier transform infrared spectroscopy study, *Plant Physiol.,* 130, 1032-1042.

Yin, J., Heo, S. and Wang, M. (2008) Antioxidant and antidiabetic activities of extracts from *Circium japonicum* root, *Nutri. Res. Prac.,* 247-251.

Yin, Y., Heo, S., Roh, K.S. and Wang, M. (2009) Biological activities of fractions from methanolic extract of *Picrasma quassioides*, *J. Plant Biol.,* 52, 325-331.

Young, I.S. and Woodside, J.V. (2001) Antioxidants in health and disease, *J. Clin. Pathol.,* 54,176–186.

Zachariah, S.M., Viswanad, V., Aleykutty, N. A., Jaykar, B. and Halima, O.A. (2012) Free radical scavenging and antibacterial activity of *Mirabilis jalapa Linn* using *in vitro* models, *Asian .J. Pharma. Clini. Res.,* 5(3), 115-120.

Zain, M. E., Awaad, A, S., Outhman, M. R. A. and Meligy, R. M. E. (2012) Antimicrobial activities of saudi arabian desert plants, *Phytopharmacol.,* 2(1),106-113.

Zeashan, H., Amresh, G., Singh, S., Rao, C.V. (2008) Hepatoprotective activity of *Amaranthus spinosus* in experimental animals, *Food Chem.Toxicol.,* 46, 3417-3421.

Zhang, X., Jeza, V.T. and Pan, Q. (2008) *Samonella typhi:* from a human pathogen to a vaccine vector, *Cell. Mol. Immunol.,* 5, 91-97.

Zulueta, A., Esteve, M.J. and Frígola, A. (2009) ORAC and TEAC assays comparison to measure the antioxidant capacity of food products, *Food Chem.,* 114(1),310-316.