
Chapter VIII

REFERENCES

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- Abrie, A. L., and van Staden, J. 2000. Micropropagation of the endangered *Aloe polyphylla*, Plant growth Regulators, **33**: 19 - 23.
- Adam, W. B., Hardy, F. and Nierenstein, M. 1931. The Catechin of the Cacao Bean. *Journal of the American Chemical Society* 53 (2): 727
- Aeri, V. and Singh, D. 2013. HPTLC studies on various extracts of *Acanthus ilicifolius* Linn. Leaves and evaluation of antimicrobial and antioxidant activity. *Der Pharmacia Lettre* **5(4)**: 261-273.
- Agasti, S. S., Chompoosor.A. You, C. C., Ghosh, P., Kim. C.K.,and Rotello. V. M. 2009. Photoregulated release of caged anticancer drugs from gold nanoparticles. *J Am Chem Soc.*; 131(**16**): 5728-5729.
- Agrawal, S.S. and Talele, G.S. 2011. Bioactivity guided isolation and characterization of the phytoconstituents from the *Tridax procumbens* Brazilian. *Journal of Pharmacognosy*, **Vol. 21**, pp. 58-62.
- Ahmed John, S., and Koperuncholan, M. 2012. Antibacterial Activities of various solvent extracts from *Impatiens balsamina*. *International Journal of pharma and bio sciences*, **3**: 401-406.
- Ahmed John, S. and Annadurai, A. 2015. GC-MS screening of active secondary metabolites present in the *Cleome gynandra*.. *International Journal of Phytopharmacy* 5(4): 47 – 52.
- Ahmad, A., Mukherjee, P., Senapati, S., Mandal, D., Khan, M. I., Kumar, R. and Sastry, M. 2003. Extracellular biosynthesis of silver nanoparticles using the fungus *Fusarium oxysporum*. *Colloids Surf B Biointerf.* **28**: 313–318.
- Alam, S.A., Sharmin, S.C., Mondal, M. J., Alam, M., and Khalekuzzaman, M. 2010. Anisuzzaman and M.F. Alam In vitro micropropagation through cotyledonary node culture of castor bean (*Ricinus communis* L.). *Australian J. of Crop Sci.* **4**: 81-84.
- Albuquerque, A. A. C., Sorenson.A.I. and Leal – Cardoso, J. H. 1995. Effects of oil of *Croton zehntneri*, and of anethole and estragole on skeletal muscles. *J. Ethnopharmacol*, **49**:41–49

- Albuquerque, A. J. R., Silva, P. M. F., Cavalcante, A. L. F. A. and Sampaio, F, C. 2013. Polyphenols as a source of antimicrobial agents against human pathogens. In *Plant Extracts*. Edited by Giordano A, Costa A. Nova Science Publishers, 275-293.
- Albrecht, M.A., Evans, C.W. and Raston, C.L. 2006. Green chemistry and the health implications of nanoparticles. *Green Chem.* **8**: 417-420.
- Alivisatos, A.P., Johnsson, K.P., Peng, X.G., Wilson, T.E., Loweth, C.J., Bruchez, M.P. and Schultz, P. G. 1996. Organization of 'nanocrystallmolecules' using DNA. *Nature* **382**: 609–611.
- Alexiou, C., Arnold, W., and Klein, R. J. 2000. Locoregional cancer treatment with magnetic drug targeting. *Cancer Res.* **60**: 6641–8.
- Ajaiyeoba, E. O. 2000. Phytochemical and Antimicrobial Studies of *Gynandropsis Gynandra* and *Buchholzia Coriaceae* Extracts. *Afr. J. Biomed. Res.* **Vol 3**: 161 - 165
- Amarowicz, R., and Karamac, M. 2003. Antioxidant activity of phenolic fractions of lentil (*Lens culznaris*). *Journal of Food Lipids*, **Vol. 10**, pp. 1-10.
- Anitha, A., Sarjan Rao, K., Suresh, J., Srinivasa Moorthy, P. R. and Kotilinga Reddy, Y. 2011. A body condition score (BCS) system in murrha buffaloes. *Buff. Bull.* **30(1)**: 79–99
- Anbazhagi, K., Kadavul, G., Suguna. and Petrus, A. J. A. 2009. Studies on the pharmacognostical and in vitro antioxidant potential of *Cleome gynandra* Linn. Leaves. *Natural Product Radiance.* **8(2)**: 151-157.
- Annadurai, A. and Ahmed John, S. 2014. Preliminary phytochemical screening in *Cleome gynandra* L. *Advances in Applied Science Research*, **5(2)**: 122-12
- Annadurai, A. and Ahmed John, S. 2014. In vitro antibacterial activity of *Cleome gynandra* L. *World Journal of Pharmaceutical Research*, **3(10)**: 801- 806.
- Annadurai, A. and Ahmed John, S. **2015**. Concentrations of heavy metals in *Cleome gynandra* L from the Tamil nadu coast, Southern India. *World Journal of Pharmaceutical Research*, **4(1)**: 1796 – 1804

- Arnon, D.I., 1949. Copper enzyme polyphenoloxides in isolated chloroplast in **24**: 1-15.
- Archibald, A. R., Hancock, I. C. and Harwood, C. R. 1993. Cell wall structure, synthesis and turnover. In *Bacillus subtilis and Other Gram-positive Bacteria: Biochemistry, Physiology and Molecular Genetics*, pp. 381-410.
- Askun, T., Tumen, G., Satil, F., and Ates, M. 2007. Characterization of the phenolic composition and antimicrobial activities of Turkish medicinal plants. *Pharm Biol* **47(7)**: 563-571.
- Asalu. 1995. Lead content of vegetable and tomatoes at Erekesan Market, Ado-Ekiti. *Pakistan journal of scientific and industrial reseach* **38**: 399-401.
- Asis Bala, Biswakanth Kar, Pallab, K., Haldar Upal, K., Mazumder, Samit Bera. 2010. Evaluation of anticancer activity of *Cleome gynandra* on Ehrlich's Ascites Carcinoma treated mice. *Journal of Ethnopharmacology* **129**: 131–134.
- Balandrin, M. F., Klocke, J. A., Wurtele, E. S. and Bollinger, W. H. 1985. Natural plant chemicals: sources of industrial and medicinal materials, *Science*, **228**: 1154–1160.
- Bauer, A. W., Kirby, W. M., Sherris, J.C., and Turck, M., 1966. Antibiotic susceptibility testing by a standardized single disk method. *Am J Clin Pathol.* **45(4)**: 493-6.
- Balestrasse, K. B., Benavides, M. P., Gallego, S. M., and Tomaro, M. L. 2003. Effect on cadmium stress on nitrogen metabolism in nodules and roots of soybean plants. *Func Plant Biol* **30**: 57–64
- Bansal, Y. K., and Pandey, P. 1993. Micropropagation of *Sesbania acculeata* by adventitious organ culture. *Plant Cell Tiss. Org. Cult.* **32**, 315.
- Bishnoi, N. R., Chugh, L. K. and Sawhney, S. K. 1993. Effect of chromium on photosynthesis, respiration and nitrogen fixation in pea (*Pisumsativum* L) seedlings. *J Plant Physiol* **142**: 25–30
- Borges, A., Ferreira, C., Saavedra, M. J. and Simoes, M. 2013. Antibacterial activity and mode of action of ferulic and Gallic acids against pathogenic bacteria microbial drug resistance. *Microb Drug Resist* **19(4)**: 256-265.

- Borges, V., Smith, D. J., Whitehouse, I. and Uhlmann, F. 2013. An Eco1-independent sister chromatid cohesion establishment pathway in *S. cerevisiae*. *Chromosoma* 122(1-2):121-134
- Brown, C.L., Whitehouse, M.W., Tiekink, E.R. and Bushell, G.R. 2008. Colloidal metallic gold is not bio-inert *Inflammopharmacology*. 16 (3): 133-137.
- Casari, W. 2009. Inorganic nanoparticles as optically effective additives for polymers. *Chem. Eng. Commun*, **196**: 549-572.
- Cakmak, I. and Marshner, H. 1993. Effect of zinc nutritional status on superoxide radical and hydrogen peroxide scavenging enzymes in bean leaves. In: Barrow NJ (Ed) *Plant nutrition-from genetic engineering field practice*. Kluwer, the Netherlands, pp 133–137
- Cascado, J. P., Navarro, M. C, Utrilla, M. P., Martinez, A. and Jimenez, J. 2000. Micropropagation of *Santolina canescens* Lgasca and in vitro volatiles production by shoot, *Plant Cell Tiss.Org. Cult*, **69**: 147 – 153.
- Caswell, K. K., Wilson, J. N., Bunz, U. H. F. and Murphy, C. J. 2003. Preferential End-to-End Assembly of Gold Nanorods by Biotin-Streptavidin Connectors. *J. Am. Chem. Soc.* **125**, 13914.
- Cetin-Karaca, H. 2011. Evaluation of natural antimicrobial phenolic compounds against foodborne pathogens. In *Master's Theses*. University of Kentucky, College of Agriculture: 652
- Chandrashekar, J, K.L., Mueller, M.A., Hoon, E., Adler, L., Feng, W., Guo, C.S., Zuker, N.J.P. and Ryba. 2000. T2Rs function as bitter taste receptors *Cell*, **100**: 703–711
- Chauhan, J. S., Srivastava, S. K. and Srivastava, S. D. 1979. Kaempferide 3glucuronide from the roots of *Cleome viscosa*. *Phytochemistry*, **18**: 6911- 1.
- Chen, Y. H., Francis, J. A. and Miller, J. R. 2002. Surface temperature of the Arctic: Comparison of TOVS satellite retrievals with surface observations. *J. Climate*, **15**: 3698-3708.
- Cheon, J., Horace G. 2009. Inorganic nanoparticles for biological sensing, imaging and therapeutics. *J Mater Chem* **19**: 6249-6250.

- Chen, Y. H., Tsai, C. Y., Huang, P. Y., Chang, M. Y., Cheng, P. C., Chou, C. H., Chen, D. H., Wang, C. R., Shiau, A. L. and Wu, C. 2007. Methotrexate conjugated to gold nanoparticles inhibits tumor growth in a syngeneic lung tumor model. *L Mol Pharm.* 4(5): 713-22.
- Chopra, R.N., Nayar, S. L. and Chopra, I. C. 1956. Glossary of Indian Medicinal Plants. Council of Scientific and Industrial Research, New Delhi, India, pp: 170.
- Cho, K.H., Hong, J.H. and Lee, K. T. 2010. Monoacylglycerol (MAG)-oleic acid has stronger antioxidant, anti-atherosclerotic, and protein glycation inhibitory activities than MAG-palmitic acid. *J Med Food*, 13(1): 99-107
- Correa, G.M. and Alcantara, A. F. C. 2010. Chemical constituent's and biological activities of species of *Justicia* – A review, *Rev Bras farmacogn*, 22(1): 220-238.
- Cowan, M. M. 1999. Plant products as antimicrobial agents. *Clinical Microbiology Review*, 12(4): 564–582.
- Cowan, M. M. 1999. Plant products as antimicrobial agents. *Clin Microbiol Rev*, 12(4): 564-582.
- Crozier, Alan, and Hiroshi Ashihara. 2006. Plant Secondary Metabolites: Occurrence, Structure and Role in the Human Diet. Ames, IA: Blackwell Publishing Professional print. *Curr Opin Biotechnol* 2012, 23(2): 174-181.
- Cushnie, T. P. and Lamb, A. J. 2011. Recent advances in understanding the antibacterial properties of flavonoids. *Int J Antimicrob Agents*. 38(2): 99-107.
- Cushnie, T. P. T. and Lamb, A. J. 2011. Recent advances in understanding the antibacterial properties of flavonoids. *Int J Antimicrob Agents*, 38(2): 99-107.
- Coulthwaite, L. and Verran, J. 2007. Potential pathogenic aspects of denture plaque. *Br J Biomed Sci* 64(4):180-189.
- Daglia, M. 2012. Polyphenols as antimicrobial agents. *Curr. Opin. Biotechnol*, 23: 174-181.

- Dagnino, D., Schripsema, J. and Verpoorte, R. 1996. Analysis of several iridoid and indole precursors of terpenoid indole alkaloids with a single HPLC run. *Planta Med.* **62**: 278–80.
- Davis, T., Ashburner, M., Johnson, G., Gubb, D. and Roote, J. 1997. Genetic and phenotypic analysis of the genes of the elbow-no-ocelli region of chromosome 2L of *Drosophila melanogaster*. *Hereditas* **126(1)**: 67- 75.
- De Dorlodot, S., Lutts, S. and Bertin, P. 2005. Effects of ferrous iron toxicity on the growth and mineral composition of an inter specific rice. *J Plant Nutr* **28**: 1–20
- De Filippis, L. F. and Ziegler, H. 1993. Effect of sublethal concentrations of zinc, cadmium and mercury on the photosynthetic carbon reduction cycle of *Euglena*. *J Plant Physiol* **142**: 167–172.
- Dhar, S., Daniel, W. L., Giljohann, D. A., Mirkin, C. A. and Lippard, S. J. 2009. Polyvalent oligonucleotide gold nanoparticle conjugates as delivery vehicles for platinum (IV) warheads. *J Am Chem Soc.* **131(41)**: 14652-14653.
- Douglas, R. H, Partridge, J. C. and Marshall, N. J. 1998. The Eyes of Deep Sea Fish I: Lens pigmentation, tapeta and visual pigments, progress in retinal and eye reseach. *17(4)*: 597-636.
- Drabble, E. and Nierenstein, M. 1907. On the Rôle of Phenols, Tannic Acids, and Oxybenzoic Acids in Cork Formation. *Biochemical Journal* **2 (3)**: 96–102.
- Dreaden, E. C., Mwakwari, S. C., Sodji, Q. H., Oyelere, A. K. and El-Sayed, M. A. 2009. Tamoxifen-poly (ethylene glycol)-thiol gold nanoparticle conjugates: enhanced potency and selective delivery for breast cancer treatment *Bioconjug Chem.* **20(12)**: 2247-2253.
- Duncan, B., Kim, C. and Rotello, V. M. 2010. Gold nanoparticle platforms as drug and biomacromolecule delivery systems. *J Control Release.* **148(1)**: 122-7.
- Ebrahimi, A. and Schluesener, H. 2012. Natural polyphenols against neurodegenerative disorders: potentials and pitfalls. *Ageing Research Reviwe* **11**, 329-345.

- Eghtedari, M., Liopo, A. V., Copland, J. A., Oraevsky, A. A. and Motamed i, M. 2009. Engineering of hetero-functional gold nanorods for the in vivo molecular targeting of breast cancer cells. *Nano Lett*: 9(1): 287-91
- Faisal, M. and Anis, M. 2002. Rapid in vitro propagation of *R. tetraphylla* L. – An endangered medicinal plant, *Physiol Mol Biol Plants*, 8: 295-299.
- Faisal, M. and Anis, M. 2003. Rapid mass propagation of *Tylophora indica* Merrill via leaf callus, *Plant Cell Tiss. Org. Cult.*, 75: 125.
- FAO. 1990. Food and agriculture organization of the united nations, Rome. Agriculture series no. 23.
- Ferreres, F., Pereira, D. M., Valentao, P., Andrade, P. B., Seabra, R. M. and Sottomayor, M. b. 2005. New phenolic compounds and antioxidant potential of *Catharanthus roseus*. *J Agric Food Chem*. 56: 9967–9974.
- Fraenkel, and Gottfried, S. 1959. The raison d' Etre of secondary plan substances. *Science* 129 (3361): 1466–1470.
- Furno, F., Morley, K. S., Wong, B., Sharp, B. L., Arnold, P. L., Howdle, S. M., Bayston, R., Brown, P. D., Winship, P. D. and Reid, H. J. 2004. Silver nanoparticles and poly- meric medical devices: a new approach to prevention of infection. *Journal of Antimicrobial Chemotherapy* 54 (6): 1019-1024.
- Gajewska, E., Sklodowska, M., Slaba, M. and Mazur, J. 2006. Effect of nickel on antioxidative enzymes activities, proline and chloro-phyll contents in wheat shoots. *Biol Planta* 50: 653 – 659.
- Gao, D. F., Xu, M., Yang, C. R., Xu, M. and Zhang, Y. J. 2010. Phenolic Antioxidants from the Leaves of *Camellia pachyandra* Hu. *J Agric Food Chem* 58, 8820 – 4.
- Gonnelli, C., Galardi, F., and Gabbrielli, R. 2001. Nickel and copper tolerance in three Tuscan populations of *Sileneparadoxa*. *PhysiolPlanta* 113: 507 – 514.
- Guo, J., Dai, X., Xu, W. and Ma, M. 2008. Over expressing GSHI and AsPCSI simultaneously increases the tolerance and accumula-tion of cadmium and arsenic in *Arabidopsis thaliana*. *Chemo-sphere* 72: 1020 –1026

- Gupta, S. and Gupta, R. 2012. Detection and quantification of quercetin in roots, leaves and flowers of *Clerodendrum infortunatum* L. *Asian Pac J Trop Disease* 2(2): 940-943.
- Gwozdz, E. A., Przymusinski, R., Rucinska, R. and Deckert, J. 1997. Plant cell responses to heavy metals: molecular and physiological aspects. *Acta Physiol Plant* 19: 459–465.
- Hamouda, T. and Baker, J.R. 2000. Antimicrobial mechanism of action of surfactant lipid preparations in enteric Gram-negative bacilli. *Journal of Applied Microbiology*, 89: 397–403.
- Hanukoglu, I. 1992. Steroidogenic enzymes: structure, function, and role in regulation of steroid hormone biosynthesis. *J Steroid BiochemMol Biol* 43 (8): 779–804.
- Hao, H., Shi, G. and Du, K. 2001. Toxic effect of Hg 2§ on physiology and ultrastructure of *Hydrochairsdubia*. *J Lake Science* 13 (2): 163-168.
- Hedge, J. E. and Hofreiter, B. T. 1962. In: *Methods in Carbohydrate Chemistry*. Vol.17, (Eds.,) Whistler, R. L. and BeMiller, J.N. Academic Press, New York, p. 420.
- Henderson, R. K., Parsons, S. A. and Jefferson, B. 2008. Successful removal of algae through the control of zeta potential. *Separation Science and Technology*. 43: 1653-1666.
- Hisiger, S. and Jolicoeur, M. 2007. Analysis of *Catharanthus roseus* alkaloids by HPLC. *Phytochem Rev.* 6: 207–234.
- Hosta, L., Pla-Roca, M., Arbiol, J., López-Iglesias, C., Samitier, J., Cruz, L. J., Kogan, M. J. and Albericio, F. 2009. Conjugation of Kahalalide F with gold nanoparticles to enhance in vitro antitumoral activity. *Bioconjug Chem.* 20(1): 138-146.
- Huang, H., and Yang, X. 2004. Synthesis of polysaccharide-stabilized gold and silver nanoparticles green method. *Carbohydr. Res.* 339: 2627-2633.
- Huang, J., Li, Q., Sun, D., Lu, Y., Su, Y., Yang, X., Wang, H., Wang, Y., Shao, W., He, N., Hong, J. and Chen, C. 2007. Biosynthesis of silver and gold nanoparticles by novel sundried *Cinnamomum campona* leaf. *Nanotechnology*, 18: 104-105.

- Hwang, M. and Ederer, G. M. 1975. Rapid hippurate hydrolysis method for presumptive identification of group B streptococci, *J. Clin. Microbiol.*, **1**, 114
- Ives, K. J. 1956. Electrokinetic phenomena of planktonic algae. *Proc Soc Water Treat Exam* **5**: 41–53.
- Izosimova, A. **2005**. Modelling the interaction between calcium and nickel in the soil-plant system. FAL Agric Res Special issue **288**: 99.
- Jain, R. A., Wolman, M. A., Schmidt, L. A., Burgess, H. A. and Granato, M. 2011. Molecular-genetic mapping of zebrafish mutants with variable phenotypic penetrance. *PLoS One* **6(10)**: e26510.
- Jana, R. N., Sau, K. T. and Pal, T. 1999. Growing Small Silver Particle as Redox Catalyst, *J. Phys. Chem. B*, **103 (1)**: 115–121.
- Jeong, S. J., Kim, H. J., Yang, Y. J., Seol, J. H., Jung, B. Y., Han, J. W., Lee, H. W. and Cho, E. J. 2005. Role of RNA polymerase II carboxy terminal domain phosphorylation in DNA damage response. *J Microbiol* **43(6)**: 516-22
- Jha, S. and Jha, T. B. 1989. Micropropagation of *Cephaelis ipecacuanha*. *Plant Cell.Rep.* **8**: 437 – 439.
- Jiang, W. 1995. Effects of heavy metal cadmium on ultrastructure of chloroplasts. *Guangxi Sciences* **2 (2)**: 21- 23
- Joseph, S. T. S., Ipe, B. I., Pramod, P. K. and George Thomas, K. G. 2006. Gold Nanorods to Nanochains: Mechanistic Investigations on Their Longitudinal Assembly Using $\alpha\omega$ - Alkanedithiols and Interplasmon Coupling. *J. Phys. Chem. B* **110**, 150.
- Jung, M. J., Heo, S. and Wang, M. H. 2008. *Food Chemistry*, **Vol. 108**, pp. 482 – 487
- Karamac, M. 2009. In-vitro study on the efficacy of tannin fractions of edible nuts as antioxidants. *European Journal of Lipid Science and Technology*, **Vol. 111**, pp.1063– 1071.
- Kalishwaralal, K., Deepak, V., Ram Kumar, S. and Pandian. 2010. Biosynthesis of silver and gold nanoparticles using *Brevibacterium casei*”, *Colloids and Surfaces*, **77(2)**: 257–262.

- Kaushik, G., Fuhrmann, A., Cammarato, A. and Engler, A. J. 2011. In situ mechanical analysis of myofibrillar perturbation and aging on soft, bilayered *Drosophila* myocardium. *Biophys. J.* 101(11): 2629 - 2637
- Khanal, P., Oh, W. K., Yun, H. J., Namgoong, G. M., Ahn, S. G., Kwon, S. M., Choi, H. K. and Choi, H. S. 2011. P-HPEA-EDA, a phenolic compound of virgin olive oil, activates AMP-activated protein kinase to inhibit carcinogenesis. *Carcinogenesis*, **Vol. 32**, pp. 545 – 553.
- Kim, C. K., Ghosh, P, and Rotello. 2009. Multimodal drug delivery using gold nanoparticles VM Nanoscale. 1(1): 61- 67.
- Kim, D.W., Son, K. H., Chang, H. W., Bae, K. S., Kang, S. S. and Kim, P. P. 2004. Anti-inflammatory activity of *Sedum Kamtschaticum*. *J. Ethnopharmacol.* **90**: 409 – 414.
- Kim, S. H., Lee, L. S., Bae, S. M., Han, S. J., Lee, B. R. and Ahn, W. S. 2008. Antimicrobial and antifungal effects of a green tea extract against vaginal pathogens. *J Women's Med* 1(1): 26-36.
- Koperuncholan, M. and Ahmed John, S. 2011. Antimicrobial and Phytochemical Screening in *Myristica dactyloides* Gaertn. *Journal of Pharmacy Research* **4**: 398-400.
- Koziara, J. M., Lockman, P. R., Allen, D. D. and Mumper, R. J. 2003. In situ blood-brain barrier transport of nanoparticles. *Pharm. Res*, **20**: 1772-1778.
- Knekt, P., Kumpulainen, J., Järvinen, R., Rissanen, H., Heliövaara, M., Reunanen, A. and Hakulinen, T. 2002. Flavonoid intake and risk of chronic diseases. *Is J Clin Nutr* **76**: 560- 568.
- Lakshmi Praba, J., Arunachalam, S., Riyazuddin, R., Divya, R., Vignesh, S., Akbarsha, A. and Arthur James, R. 2013. DNA/ RNA binding and anticancer/ antimicrobial activities of polymer-copper (II) complexes. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.* **109**: 23 – 31.
- Lee, C. W., Choi, J. M. and Pak, C. H. 1996. Micronutrient toxicity in seed geranium (*Pelargonium hortorum* Baley). *J Am Soc HortiSci* **121**: 77–82.

- Lee, C.J., Chen, L.G., Liang, W. and Wang, A.C.C. 2010. Anti-inflammatory effects of *Punica granatum* Linne in vitro and in vivo. *Food Chemistry*, **Vol. 118**, pp. 315 – 322.
- Linda, I., Sowunmi. and Anthony, J., Afolayan . 2015. Phytochemical Constituents and Antioxidant Properties of Acetone Extract of *Cleome gynandra* L. Growing In the Eastern Cape, South Africa. *Afr J Tradit Complement Altern Med.* 12(3): 1- 8.
- Lis-Balchin, M., and Deans, S. G., 1997. Bioactivity of selected plant essential oils against *Listeria monocytogenes*. *Journal of Applied Microbiology* **82**: 759 –762.
- Liufu, S., Xiao, H. and Li, Y. 2004. Investigation of PEG adsorption on the surface of zinc oxide nanoparticles. *Powder Technology* **145**: 20–24.
- Liu, D., Jiang, W, and Li, H. 2000. Effects of cadmium on root growth and ultrastructural alterations in the root tip cells of garlic (*Allium sativum* L.). *Acta Agriculture Boreali-Sinica* 15 (3): 66-71
- Liu, H., Peng, Y. and Wang, Z. 1995. Effects of cadmium on the growth and oxidation of vegetables. *Agro-environmental Protection* 14 (2): 58-61
- Li, J., Wang, X., Wang, C., Chen, B., Dai, Y., Zhang, R., Song, M., Lv, G. and Fu, D. 2007. The enhancement effect of gold nanoparticles in drug delivery and as biomarkers of drug-resistant cancer cells. *ChemMedChem*, 2(3): 374-8.
- Limbach, L. K., Wick, P., Manser, P., Grass, R. N., Bruinink, and Stark, W. J. 2007. Catalytic activity on oxidative stress. *Environmental Science Technology*. **41**, 4158.
- Liu, Q., Zhang, Y.J., Yang, C.R. and Xu, M. 2009. Phenolic antioxidants from green tea produced from *Camellia crassicolumna* Var. *multiplex*. *Journal of Agricultural and Food Chemistry*, **Vol. 57**, pp. 586–590.
- Mao, R., Zielke, C. L., Zielke, H, R. and Pevsner, J. 2003. Global up-regulation of chromosome 21 gene expression in the developing. Down syndrome brain, 81(5): 457- 467

- Mamatha, A. 2011. Quantitative HPTLC analysis of andrographolide in *Andrographis paniculata* obtained from different geographical sources (India). *Int J Pharm Pharm Sci* 3(2): 42-44.
- Mamta Tiwari, Anurag Pandey, Aruna Agrawal. and Dubey, G. P. 2014. Herbal sources of antibacterial potential: a review, *world journal of pharmacy and pharmaceutical sciences*, 3(7): 388-399.
- Makgagga cuthbert. 2004. National Botanical Institute, Pretoria, South Africa.
- Marschner, H. 1986. Mineral nutrition of higher plants. Academic Press, London, p 674
- Martin, K. P. 2003. Rapid in vitro multiplication and ex vitro rooting of *Rotula aquatica* Lour./ a rare halophytic woody medicinal plant, *Plant Cell Rep*, 21: 415-. 420.
- Mathys, W. 1975. Enzymes of heavy metal-resistant and non-resistant populations of *Silenecucubalus* and their interactions with some heavy metals in vitro and in vivo. *Physiol Plant* 33: 161–165
- Mishra, S. S., Moharana, S. K. and Dash M. P. 2011. Review on *Cleome gynandra* L. 1(3): 681- 688
- Mildvan, A. S. 1970. Metal in enzymes catalysis. In: Boyer DD (Ed) the enzymes, vol 11. Academic Press, London, pp 445–536
- Mishra, P. K. 2011. Misregulation of Scm3p/HJURP Causes Chromosome Instability in *Saccharomyces cerevisiae* and Human Cells. *PLoS Genet* 7(9): e1002303.
- Morones, J. R., Elechiguerra, J. L., Camacho, A., Holt, K., Kouri, J. B., Ramirez, J. T. and Yacaman, M. J. 2005. The bactericidal effect of silver nanoparticles. *Journal of Nanotechnology*, 16: 2346 - 2353.
- Morones, J. R. and Elechigerra, J. I. 2005. Interaction of silver nanoparticles with HIV-1. *Nanotechnology*, 16: 2346 - 2353.
- Mosmann. and Tim. 1983. Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assays. *J. Immunol. Methods* 65: 55–63

- Mukherjee, P., Bhattacharya, R., Wang, P., Wang, L., Basu, S., Nagy, J. A., Atala, A., Mukhopadhyay, D. and Soker, S. 2005. Antiangiogenic properties of gold nanoparticles. *Clin Cancer Res.* 11(9): 3530- 4.
- Mukherji, S. and Maitra, P. 1976. Toxic effects of lead growth and metabolism of germinating rice (*Oryza sativa L.*) seeds mitosis of onion (*Allium cepa*) root tip cells. *Ind J ExpBiol* 14: 519 –521
- Neelima, P. and Reddy, K. J. 2002. Interaction of copper and cadmium with seedlings growth and biochemical responses in *Solanum melon-gena*. *Envi PolluTechnol* 1: 285 –290
- Nieboer, E. and Richardson, D. H. S. 1980. The replacement of the nonde-script term heavy metals by a biologically and chemistry significant classification of metal ions. *Environ Pollut Series B* 1: 3 –26
- Nierenstein, M. 1915. The Formation of Ellagic Acid from Galloyl-Glycine by *Penicillium*. *The Biochemical Journal* 9 (2): 240 –244.
- Nierenstein, M. 1932. A biological synthesis of m-digallic acid. *The Biochemical journal.* 26 (4): 1093 –1094.
- Nierenstein, M. and Potter, J. 1945. The distribution of myrobalanitanin. *The Biochemical journal* 39 (5): 390 –392.
- Nishitha, I. K., Martin, K. P., Ligimol, A. S. and Beegum, P.V. 2006. Madhusoodanan Micropropagation and encapsulation of medicinally important *Chonemorpha grandiflora*. *In Vitro Cell Dev Biol. Plant.* 42(5): 385-388.
- Oberdörster, E. 2004. Manufactured nanomaterials (fullerenes, C60) induce oxidative stress in brain of juvenile largemouth bass. *Environ Health Perspect.* 112: 1058 – 1062.
- Opole, M., Chweya, J. and Imungi, J. 1995. Indigenous vegetables of Kenya: Indigenous knowledge, Agronomy and nutritive value. Field and Laboratory Experience Report.
- Okubo, S., Toda, M., Hara, Y. and Shimamura, T. 1991. Antifungal and antifungicidal activities of tea extract and catechin against *Trichophyton*. *Japanese Journal of Bacteriology.* 46: 509 – 514.

- Ortiz, R., Sayre, K. D., Govaerts, B., Gupta, R., Subbarao, G. V., Ban, T., Hodson, D., Dixon, J. M., Ortiz-Monasterio, J. I. and Reynolds, M. 2008. Climate change: can wheat beat the heat? *Agric Ecosyst Environ* **126**: 46 – 58
- Patwardhan, B., Ashok, D., Vaidya, B. and Mukund chorghade. 2004. Ayurveda and natural products drug discovery, *current science*, **86(6)**: 789-799.
- Paciotti, G. F., Myer, L., Weinreich, D., Goia, D., Pavel, N., McLaughlin, R. E. and Tamarkin, L. 2004. Colloidal gold: a novel nanoparticle vector for tumor directed drug delivery. *Drug Deliv.* **11(3)**: 169-83.
- Pandolfini, T., Gabbrielli, R. and Comparini, C. 1992. Nickel toxicity and peroxidase activity in seedlings of *Triticumaestivum* L. *Plant Cell Environ* **15**: 719–725
- Paniculata (Burm. F.), 2004. Wallich ex Nees via somatic embryogeneses. In *In Vitro Cell and Dev. Biol.- Plant.*, **40**: 204–209
- Parveen, S., Shahzad, A. and Saema, S. 2010. In vitro plant regeneration system for *Cassia siamea* Lam., a leguminous tree of economic importance, *Agroforest Syst.*, **80**: 109-116
- Parr, P. D., Taylor Jr, F. G. 1982. Germination and growth effects of hexavalent chromium in Orocol TL (a corrosion inhibitor) on *Phaseolus vulgaris*. *Environ Int* **7**: 197 - 202
- Patra, C. R., Bhattacharya, R., Wang, E., Katarya, A., Lau, J. S., Dutta, S., Muders, M., Wang, S., Buhrow, S. A., Safgren, S. L., Yaszemski, M. J., Reid, J. M., Ames, M. M., Mukherjee, P. and Mukhopadhyay, D. 2008. Targeted delivery of gemcitabine to pancreatic adenocarcinoma using cetuximab as a targeting agent. *Cancer Res.* **68(6)**: 1970-8.
- Pawlowska, A. M., Oleszek, W. and Braca, A. 2008. Quali-quantitative Analyses of Flavonoids of *Morus nigra* L. and *Morus alba* L. (Moraceae) Fruits. *Journal of Agricultural and Food Chemistry*, **Vol. 56**, pp. 3377–3380.
- Peng, M. and Wang, H. 1991. The variation of cell ultrastructure of maize (*Zea mays* L.) seedlings. *China Environmental Science* **11 (6)**: 426-431
- Peralta, J. R., GardeaTorresdey, J. L., Tiemann, K. J., Gomez, E., Arteaga, S. and Rascon, E. 2001. Uptake and effects of five heavy metals on seed

- germination and plant growth in alfalfa (*Medicago sativa*) L. *B. Environ Contam Toxicol* **66**: 727–734
- Perveen, S., Varshney, A., Anis, M. and Aref, I. M. 2011. Influence of cytokinins, basal media and pH on adventitious shoot regeneration from excised root cultures of *Albizia lebbek*, *J. of Forestry Res.* **22**: 47–52
- Perkin, A. G. and Nierenstein, M. **1905**. "CXLI. - some oxidation products of the hydroxybenzoic acids and the constitution of ellagic acid. Part I". *Journal of the Chemical Society, Transactions.* **87**: 1412.
- Perez, M. 2005. Analysis of *Saccharomyces cerevisiae* hexose carrier expression during wine fermentation: both low- and high-affinity Hxt transporters are expressed. *FEMS Yeast Res.* **5(4-5)**: 351-361.
- Percivala-Smith, A., Teft, W.A. and Barta, J. L. 2005. Tarsus determination in *Drosophila melanogaster*. *Genome* **48(4)**: 712--721.
- Pethkar, A.V., Kulkarni, S. K., Paknikar, K. M. 2001. Comparative studies on metal biosorption by two strains of *Cladosporium cladosporioides*. *Bioreseource Technology* **80**: 211–215.
- Petica, A., Gavrilu, S., Lungu, M., Buruntea, N. and Panzaru, C. 2008. Colloidal silver solutions with antimicrobial properties. *Mat Sci Eng B.* **152**: 22-27.
- Podsiadlo, P., Sinani, V. A., Bahng, J. H., Kam, N. W., Lee, J. and Kotov, N. A. 2008. Gold nanoparticles enhance the anti-leukemia action of a 6-mercaptopurine chemotherapeutic agent. *Langmuir* **24(2)**: 568-74.
- Prasad, M. N. V., Greger, M. and Landberg, T. 2001. *Acacia nilotica* L. bark removes toxic elements from solution: corroboration from toxicity bioassay using *Salix viminalis* L. in hydroponic system. *Int J Phytoremed* **3**: 289–300
- Phillipson, J. D. 1990. Plants as source of valuable products. In: Charlwood BV, Rhodes MJC, editors. *Secondary Products from Plant Tissue Culture*. Oxford: Clarendon Press, pp. 1–21.
- Ramesh, V., Ahmed John, S. and Koperuncholan, M. 2014. Impact of cement industries dust on selective green plants: A case study in Ariyalur industrial zone, *International Journal of Pharmaceutical, Chemical and Biological Sciences*, **4**: 152-158.

- Ramachandra Rao, S. and Ravishankar, G. A. 2002. Plant cell cultures: chemical factories of secondary metabolites. *Biotechnol Adv.* **20**: 101–153.
- Ram Nath Misra. and Sikhibhushan Dutt. 1937. Chemical examination of *Cleome pentaphylla* linn. Part II. Constituents of the oil from the seeds. *Proc. Nat. Inst. Sci. India.* **3**: 45.
- Pa, R. and Mathew, L. 2012. Antimicrobiol activity of leaf extract of *Justicia adhatoda*. *J Asian Pacific Tro Biomed.* pp, 51556-51560.
- Reddy, A. M., Kumar, S. G., Jyotsnakumari, G., Thimmanayak, S. and Sudhakar, C. 2005. Lead induced changes in antioxidant metabolism of horsegram (*Macrotyloma uniflorum* (Lam.) Verdc.) and bengal-gram (*Cicerarietinum* L.). *Chemosphe* **60**: 97–104
- Reeves, R. D. and Baker, A. J. M. 2000. Metal-accumulating plants. In: Raskin I, Ensley BD (eds) *Phytoremediation of toxic metals: using plants to clean up the environment*. Wiley, New York, pp 193–229
- Renaudin, J. P. 1985. Extraction and fluorimetric detection after high-performance liquid chromatography of indole alkaloids from cultured cells of *Catharanthus roseus*. *Phsiol Veg.* **23**: 381–388.
- Rhoades, David F. 1979. "Evolution of Plant Chemical Defense against Herbivores". In Rosenthal, Gerald A., and Janzen, Daniel H. *Herbivores: Their Interaction with Secondary Plant Metabolites*. New York: Academic Press. Pp, 41.
- Sadava, D., Hillis, D. M., Heller, H. C. and Berenbaum, M. R. 2011. *Life: The Science of Biology 9th Edition*. San Francisco: Freeman. pp. 105–114.
- Salt, D. E., Blaylock, M., Kumar, N. P. B. A., Dushenkov, V., Ensley, D., Chet, I. and Raskin, I. 1995. Phytoremediation: a novel strategy for the removal of toxic metals from the environment using plants. *Biotechn* **13**: 468–474
- Samuni-Blank, M., Izhaki, I., Dearing, M. D., Gerchman, Y., Trabelcy, B., Lotan, A., Karasov, W. H. and Arad, Z. 2012. Intraspecific directed deterrence by the mustard oil bomb in a desert plant. *Current Biology.* **22**: 1 - 3.
- Samy, R. P., Thwin, M. M., Gopalakrishnakone, P. and Ignacimuthu, S. 2008. Ethnobotanical survey of folk plants for the treatment of snakebites in Southern part of Tamilnadu, India. *J Ethnopharmacol*, **115**: 302–312.

- Sato, Y., Odetani, H., Singyouchi, K., Ohtsubo, T., Kihara, M., Shibata, H. and Higuti, T. 1997. Extraction and purification of effective antimicrobial constituents of *Terminalia chebula* RETS against methicillin-resistant *Staphylococcus aureus*. *Biol Pharm Bull* 20(4): 401-404.
- Saravanamoorthy, M. D., Sivasankari, R., Zahira, A. and S. Karthika, S. 2016. Role of Microbial Behavior in Extract of *Cleome gynandra* L. *International Journal of Applied and Pure Science and Agriculture* 2(1): 2394 - 5532
- Savic, I., Gulyas, B., Larsson, M. and Roland, P. 2000. Olfactory functions are mediated by hierarchical and parallel processing. *Neuron* 26: 735–745,
- Schmfer, M. E. V. 2001. Phytochelatins: complexation of metals and metalloids, studies on the phytochelatin synthase. PhD Thesis, Munich University of Technology (TUM), Munich.
- Scortichini, M. and Rossi, M. P. 1991, In vitro susceptibility of *Erwinia amylovora* (Burrill) Winslow et al. to geraniol and citronellol. *Journal of Applied Bacteriology*, 71: 113 –118.
- Seif el Nasr, M., Peruche, B., Roberg, C., mennel, H. D. and krieglstein, j. 1990. Neuroprotective effect of memantine demonstrated in vivo and in vitro. *Eur J pharmacol.* 185: 19-24.
- Sharma, H. C., Sharma, K. K. and Crouch, J. H. 2004. Genetic transformation of crops for insect resistance: Potential and limitations. *Critical Reviews in Plant Sciences.* 23: 47–72.
- She, G. M., Xu, C., Liu, B. and Shi, R. B. 2010. Polyphenolic acids from mint (the aerial of *Mentha haplocalyx* Briq.) with DPPH radical scavenging activity. *Journal of Food Science*, Vol. 75, pp. C359 - C362.
- Shirolkar, A., Gahlaut A., Chhillar, A. K. and Dabur, R. 2013. Quantitative analysis of catechins in *Saraca asoca* and correlation with antimicrobial activity. *Journal of Pharmaceutical Analysis.* 3(6): 421–428.
- Shu, W., Lan, C. and Zhang, Z. 1997. Analysis of major constaints onplant colonization at Fankou Pb/Zn mine tailings. Chinese. *J Applied Ecology* 8 (3): 314-318.
- Siddique, S. B., Javed, R. M., Al-Othman. M. and Anis. 2012. Stimulation of in vitro organogenesis from epicotyl explants and successive

- micropropagation round in *Cassia angustifolia* Vahl. an important source of sennosides, Agroforestry syst., DOI 10.1007/s10457-012-9578-5.
- Singh, D. V., Maithy, A., Verma, R. K., Gupta, M. M. and Kumar, S. 2000. Simultaneous determination of catharanthus alkaloids using reversed phase high performance liquid chromatography. *J Liquid Chromatogr Relat Technol.* **23**: 601–7.
- Singaravelu, G., Arockiamary, S. J., Kumar, G. V. and Govindaraju, K. 2007. A novel extracellular synthesis of monodisperse gold nanoparticles using marine alga *Sargassum wightii* Greville, *Colloids Surfaces, B. Biointerfaces*, **57**: 97-101
- Singleton, V. L., Orthofer, R. and Lamuela-raventos, R. M. 1999. Analysis of total phenols and other oxidation substrates and antioxidants by means of Folin-Ciocalteu reagent. *Methods Enzymol.* **299**: 152-178.
- Sinha, S., Guptha, M. and Chandra, P. 1997. Oxidative Stress induced by iron in *Hydrillaverticillata* (i.f) Royle: response of antioxidants. *Ecotoxicol Environ Safe* **38**: 286–291.
- Solomon, S., Qin, D., Manning, M., Chen, Z., Marquis, M., Averyt, K. B., Tignor, M. and Miller H.L. (eds.). 2007a. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.* Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Sondi, I. and Salopek-Sondi, B. 2004. Silver nanoparticles as antimicrobial agent: a case study on *E. coli* as a model for Gram-negative bacteria. *J. Colloid Interface Sci.* **275**: 177–182
- Srivastava, S. K., Chauhan, J. S. and Srivastava, S. D. 1987. A new naringenin glycoside from *Cleome viscosa*. *Phytochemistry* **18**: 2057-2058.
- Srinivas, R., Jyothi Chaitanya, P., Chandrashekar, R. and Lakshmi Bhavani, N. 2014. Analysis of Preliminary phytochemicals of leaf extracts of *Cleome gynandra* L. *WorldJournal of Pharmaceutical Sciences*, **2(9)**: 1043-1045
- Stamp Nancy, 2003. "Out of the quagmire of plant defense hypotheses". *The Quarterly Review of Biology* **78 (1)**: 23 – 55.

- Stiti, M., Cecchi, A., Rami, M., Abdaoui, M., Barragan-Montero, V., Scozzafava, A., Guari, Y., Winum, J. Y. and Supuran, C. T. 2008, Carbonic anhydrase inhibitor coated gold nanoparticles selectively inhibit the tumor-associated isoform IX over the cytosolic isozymes I and II. *J Am Chem Soc.* **130(48)**: 16130-1.
- Sudeep, P. K., Joseph, S. T. S. and Thomas, K. G. 2005. "Selective Detection of Cysteine and Glutathione Using Gold Nanorods" *J. Am. Chem. Soc.* **127**: 6516.
- Sun, S. and Wang, H. 1985. The primary studies on the physiological changes and mechanisms of damage to macrophytes by the pollution of cadmium. *Acta Botanica Physiologia* **11 (2)**: 113-121
- Suresh, K., Deepa P., Harisaranraj, R. and Vaira Achudhan, V. 2008. Antimicrobial and phytochemical investigation of the leaves of *Carica papaya* L., *Cynodon dactylon* (L.) Pers., *Euphorbia hirta* L., *Melia azedarach* L. and *Psidium guajava* L. *thnobot. Leaflets*, **12**: 1184 -1191
- Suga, T. and Shishibori, T. 1980. Structure and biosynthesis of *Cleome* prenols from the leaves of *Cleome spinosa*. *J Chem Soc Perkin Trans* **10**: 2098-2104.
- Syed, M. H., Yasmeen, A., Hussain, M. S., Subramanian, N. S. and Ramadevi, M. 2013. Preliminary phytochemical screening and HPTLC fingerprinting of leaf extracts of *Pisonea aculeata*. *J Pharmacog Phytochem* **2(1)**: 36-42.
- Syed, M. S. S., Khan, M. A. and Arshad, F. 2011. Evaluation of Phytochemicals and Antimicrobial Activity of White and Blue Capitulum and Whole Plant of *Silybum Marianum*, *World Applied Sciences Journal*. **12 (8)**: 1139-1144.
- Taylor, R., Kebaara, B. W., Nazarens, T., Jones, A., Yamanaka, R., Uhrenholdt, R., Wendler, J. P. and Atkin, A. L. 2005. Gene set coregulated by the *Saccharomyces cerevisiae* nonsense-mediated mRNA decay pathway. *Eukaryot Cell* **4(12)**: 2066-77.
- Tamura, K., Peterson, D., Peterson, N., Stecher, G., Nei, M. and Kumar, S. 2011. MEGA5: Molecular Evolutionary Genetic Analysis using maximum

- likelihood, evolutionary distance, and maximum parsimony methods. *Mol. Biol. Evol.* **28**: 2731–2739.
- Tamura, M., Saito, H., Kikuchi, K., Ishigami, T., Toyama, Y., Takami, M. and Ochiai, K. 2011. Antimicrobial activity of gel-entrapped catechins toward oral microorganisms. *Biol Pharm Bull* **34(5)**: 638 - 643.
- Tang, S. R., Wilke, B. M., Brooks, R. R. and Tang, S. R. 2001. Heavy-metal uptake by metal tolerant *Elsholtziahaichowensis* and *Commelinacommunis* from China. *Commun Soil Sci Plant Anal* **32**: 895–905
- Thomas, F., Malick, C., Endreszl, E. C. and Davies, K. S. 1998. Distinct responses to copper stress in the halophyte, *Mesembryanthemumcrystallium*. *Physiol Plant* **102**: 360–368
- Tikhomiroff, C., Allais, S., Klvana, M., Hisiger, S. and Jolicoeur, M. 2002. Continuous selective extraction of secondary metabolites from *Catharanthus roseus* hairy roots with silicon oil in a two-liquid-phase bioreactor. *Biotechnol Prog.* **18**: 1003 –1009
- Tsai, C. Y., Shiau, A. L., Chen, S. Y., Chen, Y. H., Cheng, P. C., Chang, M. Y., Chen, D. H., Chou, C. H., Wang, C. R. and Wu, C. L. 2007. Amelioration of collagen-induced arthritis in rats by nanogold. *Arthritis Rheum*, **56(2)**: 544-54.
- Tsuchiya, H. M., Fredrickson, A. G. and Aris, R. 1966. Dynamics of microbial cell populations. *Advances in Chemical Engineering.* **6**: 125–206.
- Turkevitch. J., Stevenson, P. C. and Hillier, J. 1951. A study of the nucleation and growt processes in the synthesis of colloidal gold. *Discuss. Faraday Soc.*, **11**: 55 -75
- Uma, B., Prabhakar, K., Rajendran, S. and Lakshmi Sarayu, Y. 2009. A Study onPhytochemical Screening and Antimicrobial Activity of *Cleome Gynandra*.L against Infectious Infantile Diarrhoea, *Pharmacologyonline.* **2**: 12-16
- Van Assche, F. and Clijsters, H. 1990. Effects of metals on enzyme activity in plants. *Plant Cell Environ* **13**: 195–206

- Varlan, A. R. and Sansen, W. 1996. Nondestructive Electrical Impedance Analysis in Fruit: Normal Ripening and Injuries Characterization. *Electro- and Magnetobiology* **15**: 213-227.
- Vignesh, G., Sugumar, K., Arunachalam, S., Vignesh, S. and Arthur James, R. 2013. A comparative study on the binding of single and double chain surfactant–cobalt (III) complexes with bovine serum albumin. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. **113**: 415 – 42.
- Wang, Y., Rind, D., Trepte, C. R., Kent, G. S., Yue, G. K. and Skeens, K. M. 1998. An empirical model study of the tropospheric meridional circulation based on SAGE II observations. *J. Geophys. Res.*, **103**: 13801-13818
- Wang, K. 1996. Effects of cadmium on the growth of different genetic rice. *Rural Ecological Environment* **12** (3): 18-23
- Wang, S., Li, J. and Shi, S. 2001. Geological disease caused by ecological environment: An example of cancer village in Shanxi Province. *Environmental Protection* **5**: 42- 43, 46.
- Wang, M., Li, J., Rangarajan, M., Shao, Y., Voie, E. J., Huang, T. C. and Ho, C. T. 1998. Antioxidative Phenolic Compounds from Sage (*Salvia officinalis*). *Journal of Agricultural and Food Chemistry*, **Vol. 46**, pp. 4869-4873.
- WHO. 1997. The World Health Report. Warns of growing "crisis of suffering". World Health Organization, Geneva.
- Wiley, B. J., Im, S. H., Mc Lellan, J., Seikkinin, A. and Xia, Y. 2006. Maneuvering the surface Plasmon resonance of silver nanostructures through shape-controlled synthesis. *J of phys.chem. B*. **110**: 15666-15666.
- Xu, Q., Shi, G. 2000. The toxic effects of single Cd and interaction of Cd with Zn on some physiological index of [*Oenanthe javanica* (Blume) DC]. *J Nanjing Normal University (Natural Science)* **23** (4): 97-100.
- Yang, D. **1991**. Effects of heavy metal ions on the structure and function of photosynthetic membranes of high plants. *Chinese Bulletin of Botany* **8** (3): 26-29.

- Yi, H., Zhang, Z. **1997**. Study on sister chromatid exchange in detecting environmental toxic factors. *China Environmental Science* 17 (5): 440- 442.
- Zeng, 2007, Scd5p mediates phosphoregulation of actin and endocytosis by the type 1 phosphatase glc7p in yeast. *Mol Biol Cell* 18(12): 4885-98.
- Zhang, D., Zhang, C. and Zhou, X. 1996. Mercury contents in the foods in markets and personal uptake quantity survey. *J Convalescence and Rehabilitation* 11 (2): 52-53.
- Zhang, Y. 1997. The toxicity of heavy metals to barley (*Hordeum vulgare*). *Acta Scientiae Circumstance* 17 (2): 199-204
- Zhang, Z., Liao, L., Moore, J., Wu, T. and Wang, Z. 2009. Antioxidant phenolic compounds from walnut kernels (*Juglans regia* L.). *Food Chemistry*, **Vol. 113**, pp. 160–165.
- Zhou, M. L., Shao, J. R. and Tang, Y. X. 2009. Production and metabolic engineering of terpenoid indole alkaloids in cell cultures of the medicinal plant *Catharanthus roseus* (L.) G. Don (Madagascar periwinkle) *Biotechnol Appl Biochem.* **52**: 313–323