

REFERENCES

- Abdel-Waha W. M. Thymoquinone Attenuates Toxicity and Oxidative Stress Induced by Bisphenol A in Liver of Male Rats. *Pakistan J. of Biological Sciences* **Vol. 17**, pp. 1152-60 (2014)
- Akshatha K.N., S. Mahadeva Murthy, Lakshmidevi N. Ethnomedical Uses of *Madhuca longifolia* – A Review. *International journal of Life Sciences and Pharma Research.*, **Vol. 3(1)**, pp. 44-53(2013).
- Albrecht M, Jiang W, Kumi-Diaka J, Lansky EP, Gommersall LM, Patel A, Mansel RE, Neeman I, Geldof AA, Campbell MJ. Pomegranate extracts potently suppress proliferation, xenograft growth, and invasion of human prostate cancer cells. *J Med Food*. Fall; **Vol. 7(3)**, pp. 274-83 (2004).
- Albuquerque R. V., Malcher N. S., Amado L. L., Coleman M. D., dos Santos D. C., Borges R. S., Valente S. A. S., Valente V. C. and Monteiro M. C. In Vitro Protective Effect and Antioxidant Mechanism of Resveratrol Induced by Dapsone Hydroxylamine in Human Cells. *PLOS ONE* **Vol. 10**, pp. e0134768 (2015)
- Al-Hajeri M. F. The Gulf Cooperation Council (GCC) patent office. *World Patent Information* **Vol. 28**, pp. 14-19 (2006)
- Ali F., Rahul, Naz F., Jyoti S. and Siddique Y. H. Protective effect of apigenin against N-nitrosodiethylamine (NDEA)-induced hepatotoxicity in albino rats. *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **Vol. 767**, pp. 13-20 (2014)
- Altavilla D., Minutoli L., Polito F., Irrera N., Arena S., Magno C., Rinaldi M., Burnett B. P., Squadrito F. and Bitto A. Effects of flavocoxid, a dual inhibitor of COX and 5-lipoxygenase enzymes, on benign prostatic hyperplasia. *British Journal of Pharmacology* **Vol. 167**, pp. 95-108 (2012)
- Altavilla, D.; Minutoli, L.; Polito, F.; Irrera, N.; Arena, S.; Magno, C.; Rinaldi, M.; Burnett, B.P.; Squadrito, F.; Bitto, A. Effects of flavocoxid, a dual inhibitor of COX and 5-lipoxygenase enzymes, on benign prostatic hyperplasia. *Br. J. Pharmacol.*, **2012**, *167*, 95–108.
- Anand P., Sundaram C., Jhurani S., Kunnumakkara A. B. and Aggarwal B. B. Curcumin and cancer: An “old-age” disease with an “age-old” solution. *Cancer Letters* **Vol. 267**, pp. 133-64 (2008)
- Anand P., Thomas S. G., Kunnumakkara A. B., Sundaram C., Harikumar K. B., Sung B., Tharakan S. T., Misra K., Priyadarsini I. K., Rajasekharan K. N. and Aggarwal B. B. Biological activities of curcumin and its analogues (Congeners) made by man and Mother Nature. *Biochemical Pharmacology* **Vol. 76**, pp. 1590-611 (2008)
- Angayarkanni J, Ramkumar KM, Poornima T, Priyadarshini U. Cytotoxic activity of *Amorphophallus paeniifolius* tuber extracts in vitro. *American Euresian J Agric and Environ Sci*, **2(4): 395-398**, (2007).

Angeli J. P. F., Barcelos G. R. M., Serpeloni J. M., Barbosa Junior F., Nersesyan A. and Mantovani M. S. Evaluation of the genotoxic and anti-genotoxic activities of Silybin in human hepatoma cells (HepG2). *Mutagenesis* **Vol. 25**, pp. 223-29 (2009)

Anuradha Singh, Neeraj Wadhwa. A Review on Multiple Potential of Aroid: *Amorphophallus paeoniifolius*. *Int. J. Pharm. Sci. Rev. Res.*, 2014;24(1), 55-60 Al-Fayez M., Cai H., Tunstall R., Steward W. P. and Gescher A. J. Differential modulation of cyclooxygenase-mediated prostaglandin production by the putative cancer chemopreventive flavonoids tricetin, apigenin and quercetin. *Cancer Chemotherapy and Pharmacology* **Vol. 58**, pp. 816-25 (2006)

Avis I. M., Jett M., Boyle T., Vos M. D., Moody T., Treston A. M., Martínez A. and Mulshine J. L. Growth control of lung cancer by interruption of 5-lipoxygenase-mediated growth factor signaling. *Journal of Clinical Investigation* **Vol. 97**, pp. 806-13 (1996)

Aycan İ. Ö., Tokgöz O., Tüfek A., Alabalık U., Evliyaoğlu O., Turgut H., Çelik F. and Güzel A. The use of thymoquinone in nephrotoxicity related to acetaminophen. *International Journal of Surgery* **Vol. 13**, pp. 33-37 (2015)

Aysegul, C., Mujgan, T., Evrim, O., Ertan, K. & Tomris, O. Synergistic anticancer activity of curcumin and bleomycin: An *in vitro* study using human malignant testicular germ cells *Mol. Med. Rep.* **5**, 1481-1486 (2012).

Aziz M. H., Afaq F. and Ahmad N. Prevention of Ultraviolet-B Radiation Damage by Resveratrol in Mouse Skin Is Mediated via Modulation in Survivin. *Photochemistry and Photobiology* **Vol. 81**, pp. 25 (2005)

Bachelor M. A. and Bowden G. T. UVA-mediated activation of signaling pathways involved in skin tumor promotion and progression. *Seminars in Cancer Biology* **Vol. 14**, pp. 131-38 (2004)

Bachi A. L. L., Kim F. J. K., Nonogaki S., Carneiro C. R. W., Lopes J. D., Jasiulionis M. G. and Correa M. Leukotriene B4 Creates a Favorable Microenvironment for Murine Melanoma Growth. *Molecular Cancer Research* **Vol. 7**, pp. 1417-24 (2009)

Badgular V. B., Jain P. S., Patil R. R., N. G. Haswani, Chaudhari S. G. Antiinflammatory activity of *Helicteres isora* Linn. Stem Bark Extracts in Rats. *Asian Journal of Pharmaceutical and Clinical Research*. 2009, 2(4), 63-65.

Baiju E C, Jeslin T, Padikkala J. Free Radical Scavenging and Anti-Inflammatory Activities of *Punica granatum* Linn. Fruit Rind. *Research & Reviews: Journal of Biology*. 2015, 3, 4,

Bakhle Y. S. and Botting R. M. Cyclooxygenase-2 and its regulation in inflammation. *Mediators of Inflammation* **Vol. 5**, pp. 305-23 (1996)

Arpino, Patrick (1992). "Combined liquid chromatography mass spectrometry. Part III. Applications of thermospray". *Mass Spectrometry Reviews* 11: 3.

Badgular V. B., Jain P. S., Patil R. R., Haswani N. G., Chaudhari S. G. Antiinflammatory activity of *Helicteres isora* Linn. Stem Bark Extracts in Rats. *Asian Journal of Pharmaceutical and Clinical Research.*, **Vol.2, No.4, 63-65 (2009)**.

Baiju E C, Jeslin T, Padikkala J. Free Radical Scavenging and Anti-Inflammatory Activities of *Punica granatum* Linn.Fruit Rind. *Research & Reviews: Journal of Biology*. 2015, 3, 4,

Balestrieri B., Hsu V. W., Gilbert H., Leslie C. C., Han W. K., Bonventre J. V. and Arm J. P. Group V Secretory Phospholipase A2 Translocates to the Phagosome after Zymosan Stimulation of Mouse Peritoneal Macrophages and Regulates Phagocytosis. *Journal of Biological Chemistry* **Vol. 281**, pp. 6691-98 (2006)

Balestrieri B., Maekawa A., Xing W., Gelb M. H., Katz H. R. and Arm J. P. Group V Secretory Phospholipase A2 Modulates Phagosome Maturation and Regulates the Innate Immune Response against *Candida albicans*. *The Journal of Immunology* **Vol. 182**, pp. 4891-98 (2009)

Banerjee S., Azmi A. S., Padhye S., Singh M. W., Baruah J. B., Philip P. A., Sarkar F. H. and Mohammad R. M. Structure-Activity Studies on Therapeutic Potential of Thymoquinone Analogs in Pancreatic Cancer. *Pharmaceutical Research* **Vol. 27**, pp. 1146-58 (2010)

Banerjee S., Kaseb A. O., Wang Z., Kong D., Mohammad M., Padhye S., Sarkar F. H. and Mohammad R. M. Antitumor Activity of Gemcitabine and Oxaliplatin Is Augmented by Thymoquinone in Pancreatic Cancer. *Cancer Research* **Vol. 69**, pp. 5575-83 (2009)

Banerjee S., Li Y., Wang Z. and Sarkar F. H. Multi-targeted therapy of cancer by genistein. *Cancer Letters* **Vol. 269**, pp. 226-42 (2008)

Barcelo S., Gardiner J. M., Gescher A. and Chipman J. K. CYP2E1-mediated mechanism of anti-genotoxicity of the broccoli constituent sulforaphane. *Carcinogenesis* **Vol. 17**, pp. 277-82 (1996)

Barker H. E., Cox T. R. and Erler J. T. The rationale for targeting the LOX family in cancer. *Nature Reviews Cancer* **Vol. 12**, pp. 540-52 (2012)

Barker, H.E.; Cox, T.R.; Erler, J.T. The rationale for targeting the LOX family in cancer. *Nat. Rev. Cancer.*, **2012**, *12*, 540-552.

Ben Bacha A. and Abid I. Secretory Phospholipase A2 in Dromedary Tears: a Host Defense Against Staphylococci and Other Gram-Positive Bacteria. *Applied Biochemistry and Biotechnology* **Vol. 169**, pp. 1858-69 (2013)

Bennett D. T., Deng X.-S., Yu J. A., Bell M. T., Mauchley D. C., Meng X., Reece T. B., Fullerton D. A. and Weyant M. J. Cancer Stem Cell Phenotype Is Supported by Secretory Phospholipase A2 in Human Lung Cancer Cells. *The Annals of Thoracic Surgery* **Vol. 98**, pp. 439-46 (2014)

Beydilli H., Yilmaz N., Cetin E. S., Topal Y., Celik O. I., Sahin C., Topal H., Cigerci I. H. and Sozen H. Evaluation of the Protective Effect of Silibinin Against Diazinon Induced Hepatotoxicity and Free-Radical Damage in Rat Liver. *Iranian Red Crescent Medical Journal* **Vol. 17** (2015)

Bhushan, S.; Singh, J.; Rao, J.M.; Saxena, A.K.; Qazi, G.N. A novel lignan composition from *Cedrus deodara* induces apoptosis and early nitric oxide generation in human leukemia Molt-4 and HL-60 cells. *Nitric Oxide*, **2006**, *14*, 72–88.

Binion D. G., Otterson M. F. and Rafiee P. Curcumin inhibits VEGF-mediated angiogenesis in human intestinal microvascular endothelial cells through COX-2 and MAPK inhibition. *Gut* **Vol. 57**, pp. 1509-17 (2008)

Bishayee A. Cancer Prevention and Treatment with Resveratrol: From Rodent Studies to Clinical Trials. *Cancer Prevention Research* **Vol. 2**, pp. 409-18 (2009)

Bishayee A., Haskell Y., Do C., Siveen K. S., Mohandas N., Sethi G. and Stoner G. D. Potential Benefits of Edible Berries in the Management of Aerodigestive and Gastrointestinal Tract Cancers: Preclinical and Clinical Evidence. *Critical Reviews in Food Science and Nutrition* **Vol. 56**, pp. 1753-75 (2015)

Bishayee A., Thoppil R. J., Mandal A., Darvesh A. S., Ohanyan V., Meszaros J. G., Háznagy-Radnai E., Hohmann J. and Bhatia D. Black currant phytoconstituents exert chemoprevention of diethylnitrosamine-initiated hepatocarcinogenesis by suppression of the inflammatory response. *Mol. Carcinog.* **Vol. 52**, pp. 304-17 (2011)

Bishayee A., Waghray A., Barnes K. F., Mbimba T., Bhatia D., Chatterjee M. and Darvesh A. S. Suppression of the Inflammatory Cascade is Implicated in Resveratrol Chemoprevention of Experimental Hepatocarcinogenesis. *Pharmaceutical Research* **Vol. 27**, pp. 1080-91 (2010)

Bitto A, Minutoli L, David A, Irrera N, Rinaldi M, Venuti FS, Squadrito F, Altavilla D. Flavocoxid, a dual inhibitor of COX-2 and 5-LOX of natural origin, attenuates the inflammatory response and protects mice from sepsis. *Crit Care*. 2012 Feb 22;16(1):R32.

Bitto A, Squadrito F, Irrera N, Pizzino G, Pallio G, Mecchio A, Galfo F, Altavilla D. Flavocoxid, a nutraceutical approach to blunt inflammatory conditions. *Mediators Inflamm*. 2014;2014:790851.

Bitto A., Minutoli L., David A., Irrera N., Rinaldi M., Venuti F. S., Squadrito F. and Altavilla D. Flavocoxid, a dual inhibitor of COX-2 and 5-LOX of natural origin, attenuates the inflammatory response and protects mice from sepsis. *Critical Care* **Vol. 16**, pp. R32 (2012)

Bjarnason I., Hayllar J., Macpherson A. N. d. J. and Russell A. N. t. S. Side effects of nonsteroidal anti-inflammatory drugs on the small and large intestine in humans. *Gastroenterology* **Vol. 104**, pp. 1832-47 (1993)

Black A. T., Gordon M. K., Heck D. E., Gallo M. A., Laskin D. L. and Laskin J. D. UVB light regulates expression of antioxidants and inflammatory mediators in human corneal epithelial cells. *Biochemical Pharmacology* **Vol. 81**, pp. 873-80 (2011)

Blecha J. E., Anderson M. O., Chow J. M., Guevarra C. C., Pender C., Penaranda C., Zavodovskaya M., Youngren J. F. and Berkman C. E. Inhibition of IGF-1R and lipoxigenase by nordihydroguaiaretic acid (NDGA) analogs. *Bioorganic & Medicinal Chemistry Letters* **Vol. 17**, pp. 4026-29 (2007)

- Block K. I., Block P. B. and Gyllenhaal C. Integrative Therapies in Cancer: Modulating a Broad Spectrum of Targets for Cancer Management. *Integrative Cancer Therapies* **Vol. 14**, pp. 113-18 (2015)
- Böhm V. and Bitsch R. Intestinal absorption of lycopene from different matrices and interactions to other carotenoids, the lipid status, and the antioxidant capacity of human plasma. *European Journal of Nutrition* **Vol. 38**, pp. 118-25 (1999)
- Boilard E., Lai Y., Larabee K., Balestrieri B., Ghomashchi F., Fujioka D., Gobezie R., Coblyn J. S., Weinblatt M. E., Massarotti E. M., Thornhill T. S., Divangahi M., Remold H., Lambeau G., Gelb M. H., Arm J. P. and Lee D. M. A novel anti-inflammatory role for secretory phospholipase A 2 in immune complex-mediated arthritis. *EMBO Molecular Medicine* **Vol. 2**, pp. 172-87 (2010)
- Bonvissuto G., Minutoli L., Morgia G., Bitto A., Polito F., Irrera N., Marini H., Squadrito F. and Altavilla D. Effect of *Serenoa repens*, Lycopene, and Selenium on Proinflammatory Phenotype Activation: An In Vitro And In Vivo Comparison Study. *Urology* **Vol. 77**, pp. 248.e9-48.e16 (2011)
- Boocock D. J., Faust G. E. S., Patel K. R., Schinas A. M., Brown V. A., Ducharme M. P., Booth T. D., Crowell J. A., Perloff M., Gescher A. J., Steward W. P. and Brenner D. E. Phase I Dose Escalation Pharmacokinetic Study in Healthy Volunteers of Resveratrol, a Potential Cancer Chemopreventive Agent. *Cancer Epidemiology Biomarkers & Prevention* **Vol. 16**, pp. 1246-52 (2007)
- Botting R. COX-1 and COX-3 inhibitors. *Thrombosis Research* **Vol. 110**, pp. 269-72 (2003)
- Brandão R. D., Veeck J., Van de Vijver K. K., Lindsey P., de Vries B., van Elssen C. H. M. J., Blok M. J., Keymeulen K., Ayoubi T., Smeets H. J. M., Tjan-Heijnen V. C. and Hupperets P. S. A randomised controlled phase II trial of pre-operative celecoxib treatment reveals anti-tumour transcriptional response in primary breast cancer. *Breast Cancer Research* **Vol. 15**, pp. R29 (2013)
- Breyer R. M., Bagdassarian C. K., Myers S. A. and Breyer M. D. PROSTANOIDRECEPTORS: Subtypes and Signaling. *Annu. Rev. Pharmacol. Toxicol.* **Vol. 41**, pp. 661-90 (2001)
- Börger F., Krieg P., Kinzig A., Schurich B. r., Marks F. and Förstenberger G. Constitutive expression of 8-lipoxygenase in papillomas and clastogenic effects of lipoxygenase-derived arachidonic acid metabolites in keratinocytes. *Mol. Carcinog.* **Vol. 24**, pp. 108-17 (1999)
- Brglez V., Lambeau G. and Petan T. Secreted phospholipases A2 in cancer: Diverse mechanisms of action. *Biochimie* **Vol. 107**, pp. 114-23 (2014)
- Brown J. R. Cyclooxygenase as a Target in Lung Cancer. *Clinical Cancer Research* **Vol. 10**, pp. 4266S-69S (2004)
- Brown K. L., Davidson J. and Rotondo D. Characterisation of the prostaglandin E2-ethanolamide suppression of tumour necrosis factor- α production in human monocytic cells. *Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids* **Vol. 1831**, pp. 1098-107 (2013)

- Brown, K.L.; Davidson, J.; Rotondo, D. Characterization of prostaglandin E2-ethanolamide suppression of tumor necrosis factor- α production in human monocytic cells. *Biochim. Biophys. Acta*, 2013, 1831, 1098-1107.
- Byun S., Park J., Lee E., Lim S., Yu J. G., Lee S. J., Chen H., Dong Z., Lee K. W. and Lee H. J. Src kinase is a direct target of apigenin against UVB-induced skin inflammation. *Carcinogenesis* **Vol. 34**, pp. 397-405 (2012)
- Cai H., Chiorean E. G., Chiorean M. V., Rex D. K., Robb B. W., Hahn N. M., Liu Z., Loehrer P. J., Harrison M. L. and Xu Y. Elevated Phospholipase A2 Activities in Plasma Samples from Multiple Cancers. *PLoS ONE* **Vol. 8**, pp. e57081 (2013)
- Cao H., Song S., Zhang H., Zhang Y., Qu R., Yang B., Jing Y., Hu T., Yan F. and Wang B. Chemopreventive effects of berberine on intestinal tumor development in Apc min/+mice. *BMC Gastroenterol* **Vol. 13** (2013)
- Carrasco M. P., Asboth G., Phaneuf S. and Lopez Bernal A. Activation of the prostaglandin FP receptor in human granulosa cells. *Reproduction* **Vol. 111**, pp. 309-17 (1997)
- Carter L. G., D'Orazio J. A. and Pearson K. J. Resveratrol and cancer: focus on in vivo evidence. *Endocrine Related Cancer* **Vol. 21**, pp. R209-R25 (2014)
- Catania A., Barraji n-Catal n E., Nicolosi S., Cicirata F. and Micol V. Immunoliposome encapsulation increases cytotoxic activity and selectivity of curcumin and resveratrol against HER2 overexpressing human breast cancer cells. *Breast Cancer Res Treat* **Vol. 141**, pp. 55-65 (2013)
- Cathcart M.-C., Gately K., Cummins R., Kay E., O'Byrne K. J. and Pidgeon G. P. Examination of thromboxane synthase as a prognostic factor and therapeutic target in non-small cell lung cancer. *Molecular Cancer* **Vol. 10**, pp. 25 (2011)
- Cathcart M.-C., Reynolds J. V., O'Byrne K. J. and Pidgeon G. P. The role of prostacyclin synthase and thromboxane synthase signaling in the development and progression of cancer. *Biochimica et Biophysica Acta (BBA) - Reviews on Cancer* **Vol. 1805**, pp. 153-66 (2010)
-  eribaşı A. O., T rk G., S nmez M., Sakin F. and Ateşşahin A. Toxic Effect of Cyclophosphamide on Sperm Morphology, Testicular Histology and Blood Oxidant-Antioxidant Balance, and Protective Roles of Lycopene and Ellagic Acid. *Basic & Clinical Pharmacology & Toxicology* **Vol. 107**, pp. 730-36 (2010)
- Chakma C. S., Chakma R. C., Ghosh T. K. Anti-inflammatory activity of the fruit-seeds *Madhuca longifolia* (KOENIG). *Advance Research in Pharmaceuticals and Biologicals*. **Vol. 1, No.1**, 56-59 (2011).
- Chakma C. S., Chakma R. C., Ghosh T. K. Anti-inflammatory activity of the fruit-seeds *Madhuca longifolia* (KOENIG). *Advance Research in Pharmaceuticals and Biologicals*. 2011; Vol 1(1), 56-59.
- Chan C.-M., Huang C.-H., Li H.-J., Hsiao C.-Y., Su C.-C., Lee P.-L. and Hung C.-F. Protective Effects of Resveratrol against UVA-Induced Damage in ARPE19 Cells. *IJMS* **Vol. 16**, pp. 5789-802 (2015)

- Chan J. M., Weinberg V., Magbanua M. J., Sosa E., Simko J., Shinohara K., Federman S., Mattie M., Hughes-Fulford M., Haqq C. and Carroll P. R. Nutritional supplements, COX-2 and IGF-1 expression in men on active surveillance for prostate cancer. *Cancer Causes & Control* **Vol. 22**, pp. 141-50 (2010)
- Chan K. Y., Mohamad K., Ooi A. J. A., Imiyabir Z. and Chung L. Y. Bioactivity-guided fractionation of the lipoxygenase and cyclooxygenase inhibiting constituents from *Chisocheton polyandrus* Merr. *Fitoterapia* **Vol. 83**, pp. 961-67 (2012)
- Chan M. M., Fong D., Soprano K. J., Holmes W. F. and Heverling H. Inhibition of growth and sensitization to cisplatin-mediated killing of ovarian cancer cells by polyphenolic chemopreventive agents. *J. Cell. Physiol.* **Vol. 194**, pp. 63-70 (2002)
- Chan KY, Mohamad K, Ooi AJ, Imiyabir Z, Chung LY. Bioactivity-guided fractionation of the lipoxygenase and cyclooxygenase inhibiting constituents from *Chisocheton polyandrus* Merr. *Fitoterapia*. 2012 Jul;83(5):961-7.
- Chandrasekharan N. V., Dai H., Roos K. L. T., Evanson N. K., Tomsik J., Elton T. S. and Simmons D. L. COX-3, a cyclooxygenase-1 variant inhibited by acetaminophen and other analgesic/antipyretic drugs: Cloning, structure, and expression. *Proceedings of the National Academy of Sciences* **Vol. 99**, pp. 13926-31 (2002)
- Chang C. C., Heller J. D., Kuo J. and Huang R. C. C. Tetra-O-methyl nordihydroguaiaretic acid induces growth arrest and cellular apoptosis by inhibiting Cdc2 and survivin expression. *Proceedings of the National Academy of Sciences* **Vol. 101**, pp. 13239-44 (2004)
- Chang J., Vacher J., Yao B., Fan X., Zhang B., Harris R. C. and Zhang M. Z. Prostaglandin E receptor 4 (EP4) promotes colonic tumorigenesis. *Oncotarget* **Vol. 6**, pp. 33500-11 (2015)
- Chatterjee M., Das S., Roy K. and Chatterjee M. Overexpression of 5-lipoxygenase and its relation with cell proliferation and angiogenesis in 7,12-dimethylbenz(α)anthracene-induced rat mammary carcinogenesis. *Mol. Carcinog.* **Vol. 52**, pp. 359-69 (2011)
- Chehl N., Chipitsyna G., Gong Q., Yeo C. J. and Arafat H. A. Anti-inflammatory effects of the *Nigella sativa* seed extract, thymoquinone, in pancreatic cancer cells. *HPB* **Vol. 11**, pp. 373-81 (2009)
- Chen B. J. Triptolide, A Novel Immunosuppressive and Anti-Inflammatory Agent Purified from a Chinese Herb *Tripterygium Wilfordii* Hook F. *Leukemia & Lymphoma* **Vol. 42**, pp. 253-65 (2001)
- Chen C.-S., Tan C.-M., Huang C.-H., Chang L.-C., Wang J.-P., Cheng F.-C. and Chern J.-W. Discovery of 3-(4-bromophenyl)-6-nitrobenzo[1.3.2]dithiazolium ylide 1,1-dioxide as a novel dual cyclooxygenase/5-lipoxygenase inhibitor that also inhibits tumor necrosis factor-α production. *Bioorganic & Medicinal Chemistry* **Vol. 18**, pp. 597-604 (2010)
- Chen F.-L., Wang X.-Z., Li J.-Y., Yu J.-P., Huang C.-Y. and Chen Z.-X. 12-Lipoxygenase Induces Apoptosis of Human Gastric Cancer AGS Cells via the ERK1/2 Signal Pathway. *Digestive Diseases and Sciences* **Vol. 53**, pp. 181-87 (2007)

Chen L.-G., Hung L.-Y., Tsai K.-W., Pan Y.-S., Tsai Y.-D., Li Y.-Z. and Liu Y.-W. Wogonin, a bioactive flavonoid in herbal tea, inhibits inflammatory cyclooxygenase-2 gene expression in human lung epithelial cancer cells. *Molecular Nutrition & Food Research* **Vol. 52**, pp. 1349-57 (2008)

Chen X. Aberrant arachidonic acid metabolism in esophageal adenocarcinogenesis, and the effects of sulindac, nordihydroguaiaretic acid, and alpha-difluoromethylornithine on tumorigenesis in a rat surgical model. *Carcinogenesis* **Vol. 23**, pp. 2095-102 (2002)

Chen X., Gresham A., Morrison A. and Pentland A. P. Oxidative stress mediates synthesis of cytosolic phospholipase A2 after UVB injury. *Biochimica et Biophysica Acta (BBA) - Lipids and Lipid Metabolism* **Vol. 1299**, pp. 23-33 (1996)

Chen X., Wang S., Wu N. and Yang C. Leukotriene A4 Hydrolase as a Target for Cancer Prevention and Therapy. *Current Cancer Drug Targets* **Vol. 4**, pp. 267-83 (2004)

Chen X., Zhang X., Lu Y., Shim J.-Y., Sang S., Sun Z. and Chen X. Chemoprevention of 7,12-dimethylbenz[*a*]anthracene (DMBA)-induced Hamster Cheek Pouch Carcinogenesis by a 5-Lipoxygenase Inhibitor, Garcinol. *Nutrition and Cancer* **Vol. 64**, pp. 1211-18 (2012)

Chen Y. J., Inbaraj B. S., Pu Y. S. and Chen B. H. Development of lycopene micelle and lycopene chylomicron and a comparison of bioavailability. *Nanotechnology* **Vol. 25**, pp. 155102 (2014)

Chen, C.S.; Tan, C.M.; Huang, C.H.; Chang, L.C.; Wang, J.P.; Cheng, F.C.; Chern, J.W. Discovery of 3-(4-bromophenyl)-6-nitrobenzo[1.3.2]dithiazolium ylide 1,1-dioxide as a novel dual cyclooxygenase/5-lipoxygenase inhibitor that also inhibits tumor necrosis factor-alpha production. *Bioorg. Med. Chem.*, 2010, 18, 597–604.

Chen, Z.K.; Lv, H.S. Quantification of expression of leukotriene B4 inducing tumor necrosis factor-alpha and interleukin-1beta at mRNA level in synovial membrane cells of rheumatoid arthritis by real-time quantitative PCR. *Beijing Da Xue Xue Bao*. 2006, 38, 533-536.

Cheng S.-E., Lin C.-C., Lee I. T., Hsu C.-K., Kou Y. R. and Yang C.-M. Cigarette smoke extract regulates cytosolic phospholipase A 2 expression via NADPH oxidase/MAPKs/AP-1 and p300 in human tracheal smooth muscle cells. *Journal of Cellular Biochemistry* **Vol. 112**, pp. 589-99 (2011)

Cherng J.-M., Tsai K.-D., Perng D.-S., Wang J.-S., Wei C.-C. and Lin J.-C. Diallyl sulfide protects against ultraviolet B-induced skin cancers in SKH-1 hairless mouse: analysis of early molecular events in carcinogenesis. *Photodermatology, Photoimmunology & Photomedicine* **Vol. 27**, pp. 138-46 (2011)

Chi, R.L.; Chun, P.; Kao, W.H.P.; Yuan, S.C.; Shang, C.L.; Yu, L.H. Analgesic and Anti-Inflammatory Activities of Methanol Extract of *Ficus pumila* L. in Mice. *Evid. Based Complement. Alternat. Med.*, 2012, 1-9.

Chidambara Murthy K. N., Jayaprakasha G. K. and Patil B. S. The natural alkaloid berberine targets multiple pathways to induce cell death in cultured human colon cancer cells. *European Journal of Pharmacology* **Vol. 688**, pp. 14-21 (2012)

- Cho J., Rho O., Junco J., Carbajal S., Siegel D., Slaga T. J. and DiGiovanni J. Effect of Combined Treatment with Ursolic Acid and Resveratrol on Skin Tumor Promotion by 12-O-Tetradecanoylphorbol-13-Acetate. *Cancer Prevention Research* **Vol. 8**, pp. 817-25 (2015)
- Cho J.-W., Park K., Kweon G. R., Jang B.-C., Baek W.-K., Suh M.-H., Kim C.-W., Lee K.-S. and Suh S.-I. Curcumin inhibits the expression of COX-2 in UVB-irradiated human keratinocytes (HaCaT) by inhibiting activation of AP-1: p38 MAP kinase and JNK as potential upstream targets. *Experimental & Molecular Medicine* **Vol. 37**, pp. 186-92 (2005)
- Cho N.-P., Han H.-S., Leem D.-H., Choi I.-S., Jung J.-Y., Kim H.-J., Moon K.-S., Choi K.-H., Soh Y., Kong G., Cho S.-D. and Choi S. H. Sulforaphane enhances caspase-dependent apoptosis through inhibition of cyclooxygenase-2 expression in human oral squamous carcinoma cells and nude mouse xenograft model. *Oral Oncology* **Vol. 45**, pp. 654-60 (2009)
- Chun K. S. Celecoxib inhibits phorbol ester-induced expression of COX-2 and activation of AP-1 and p38 MAP kinase in mouse skin. *Carcinogenesis* **Vol. 25**, pp. 713-22 (2003)
- Chun K. S. Curcumin inhibits phorbol ester-induced expression of cyclooxygenase-2 in mouse skin through suppression of extracellular signal-regulated kinase activity and NF- κ B activation. *Carcinogenesis* **Vol. 24**, pp. 1515-24 (2003)
- Chun Y. J., Kim M. Y. and Guengerich F. P. Resveratrol Is a Selective Human Cytochrome P450 1A1 Inhibitor. *Biochemical and Biophysical Research Communications* **Vol. 262**, pp. 20-24 (1999)
- Chung L. Y., Soo W. K., Chan K. Y., Mustafa M. R., Goh S. H. and Imiyabir Z. Lipoxygenase inhibiting activity of some Malaysian plants. *Pharmaceutical Biology* **Vol. 47**, pp. 1142-48 (2009)
- Chung M.-H., Kim D.-H., Na H.-K., Kim J.-H., Kim H.-N., Haegeman G. and Surh Y.-J. Genistein inhibits phorbol ester-induced NF- κ B transcriptional activity and COX-2 expression by blocking the phosphorylation of p65/RelA in human mammary epithelial cells. *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* **Vol. 768**, pp. 74-83 (2014)
- Cianchi F., Cortesini C., Magnelli L., Fanti E., Papucci L., Schiavone N., Messerini L., Vannacci A., Capaccioli S., Perna F., Lulli M., Fabbroni V., Perigli G., Bechi P. and Masini E. Inhibition of 5-lipoxygenase by MK886 augments the antitumor activity of celecoxib in human colon cancer cells. *Molecular Cancer Therapeutics* **Vol. 5**, pp. 2716-26 (2006)
- Cianciulli A., Calvello R., Cavallo P., Dragone T., Carofiglio V. and Panaro M. A. Modulation of NF- κ B activation by resveratrol in LPS treated human intestinal cells results in downregulation of PGE2 production and COX-2 expression. *Toxicology in Vitro* **Vol. 26**, pp. 1122-28 (2012)
- Čipák L., Rauko P., Miadoková E., Čipáková I. and Novotný L. Effects of flavonoids on cisplatin-induced apoptosis of HL-60 and L1210 leukemia cells. *Leukemia Research* **Vol. 27**, pp. 65-72 (2003)

- Cooke D., Steward W. P., Gescher A. J. and Marczylo T. Anthocyanins from fruits and vegetables – Does bright colour signal cancer chemopreventive activity? *European Journal of Cancer* **Vol. 41**, pp. 1931-40 (2005)
- Cuendet M. and Pezzuto M. The Role of Cyclooxygenase and Lipoxygenase in Cancer Chemoprevention. *Drug Metabolism and Drug Interactions* **Vol. 17** (2000)
- Cui Y., Lu C., Kang A., Liu L., Tan S., Sun D., Hu J. and Ma X. Nordihydroguaiaretic acid restores expression of silenced E-cadherin gene in human breast cancer cell lines and xenografts. *Anti-Cancer Drugs* **Vol. 19**, pp. 487-94 (2008)
- Cui Y., Lu C., Liu L., Sun D., Yao N., Tan S., Bai S. and Ma X. Reactivation of methylation-silenced tumor suppressor gene p16INK4a by nordihydroguaiaretic acid and its implication in G1 cell cycle arrest. *Life Sciences* **Vol. 82**, pp. 247-55 (2008)
- D. Sunil Kumar, Bose, C., Shaji, S. K., Banerji, A., Kumar, G. B., and Bipin G. Nair Dr., “Cocos Nucifera Shell Extract Down Regulates MMP-2, MMP-9 and Cell Migration in A375 Cells”, in The XXXIX All India Cell Biology Conference , 2015.
- Dai W., Wang F., He L., Lin C., Wu S., Chen P., Zhang Y., Shen M., Wu D., Wang C., Lu J., Zhou Y., Xu X., Xu L. and Guo C. Genistein inhibits hepatocellular carcinoma cell migration by reversing the epithelial-mesenchymal transition: Partial mediation by the transcription factor NFAT 1. *Mol. Carcinog.* **Vol. 54**, pp. 301-11 (2013)
- Degner S. C., Papoutsis A. J., Selmin O. and Romagnolo D. F. Targeting of Aryl Hydrocarbon Receptor-Mediated Activation of Cyclooxygenase-2 Expression by the Indole-3-Carbinol Metabolite 3,3'-Diindolylmethane in Breast Cancer Cells. *Journal of Nutrition* **Vol. 139**, pp. 26-32 (2008)
- Deng X., Dong Y., Yi Q., Huang Y., Zhao D., Yang Y., Tijssen P., Qiu J., Liu K. and Li Y. The Determinants for the Enzyme Activity of Human Parvovirus B19 Phospholipase A2 (PLA2) and Its Influence on Cultured Cells. *PLoS ONE* **Vol. 8**, pp. e61440 (2013)
- Dennis E. A., Cao J., Hsu Y.-H., Magrioti V. and Kokotos G. Phospholipase A 2 Enzymes: Physical Structure, Biological Function, Disease Implication, Chemical Inhibition, and Therapeutic Intervention. *Chemical Reviews* **Vol. 111**, pp. 6130-85 (2011)
- Dessen A., Tang J., Schmidt H., Stahl M., Clark J. D., Seehra J. and Somers W. S. Crystal Structure of Human Cytosolic Phospholipase A2 Reveals a Novel Topology and Catalytic Mechanism. *Cell* **Vol. 97**, pp. 349-60 (1999)
- Devaraj S. and Jialal I.?-Tocopherol decreases tumor necrosis factor-? mRNA and protein from activated human monocytes by inhibition of 5-lipoxygenase. *Free Radical Biology and Medicine* **Vol. 38**, pp. 1212-20 (2005)
- Devi S., Arseculeratne S. N., Pathmanathan R., McKenzie I. F. C. and Pang T. SUPPRESSION OF CELL-MEDIATED IMMUNITY FOLLOWING ORAL FEEDING OF MICE WITH PALMYRAH (BORASSUS FLABELLIFER L) FLOUR. *Australian Journal of Experimental Biology and Medical Science* **Vol. 63**, pp. 371-79 (1985)

- Dharmappa K. K., Mohamed R., Shivaprasad H. V. and Vishwanath B. S. Genistein, a potent inhibitor of secretory phospholipase A2: a new insight in down regulation of inflammation. *Inflammopharmacology* **Vol. 18**, pp. 25-31 (2009)
- Dhillon N., Aggarwal B. B., Newman R. A., Wolff R. A., Kunnumakkara A. B., Abbruzzese J. L., Ng C. S., Badmaev V. and Kurzrock R. Phase II Trial of Curcumin in Patients with Advanced Pancreatic Cancer. *Clinical Cancer Research* **Vol. 14**, pp. 4491-99 (2008)
- Diczfalusy U., Falardeau P. and Hammarström S. Conversion of prostaglandin endoperoxides to C 17 -hydroxy acids catalyzed by human platelet thromboxane synthase. *FEBS Letters* **Vol. 84**, pp. 271-74 (1977)
- Ding S., Zhang Z.-h., Song J., Cheng X.-d., Jiang J. and Jia X.-b. Enhanced bioavailability of apigenin via preparation of a carbon nanopowder solid dispersion. *International Journal of Nanomedicine*, pp. 2327 (2014)
- Ding X.-Z., Hennig R. and Adrian T. E. *Molecular Cancer* **Vol. 2**, pp. 10 (2003)
- Ding X.-Z., Kuszynski C. A., El-Metwally T. H. and Adrian T. E. Lipoxygenase Inhibition Induced Apoptosis, Morphological Changes, and Carbonic Anhydrase Expression in Human Pancreatic Cancer Cells. *Biochemical and Biophysical Research Communications* **Vol. 266**, pp. 392-99 (1999)
- Ding X.-Z., Tong W.-G. and Adrian T. E. Cyclooxygenases and lipoxygenases as potential targets for treatment of pancreatic cancer. *Pancreatology* **Vol. 1**, pp. 291-99 (2001)
- Divya C. S. and Pillai M. R. Antitumor action of curcumin in human papillomavirus associated cells involves downregulation of viral oncogenes, prevention of NFκB and AP-1 translocation, and modulation of apoptosis. *Mol. Carcinog.* **Vol. 45**, pp. 320-32 (2006)
- Do M. T., Kim H. G., Choi J. H., Khanal T., Park B. H., Tran T. P., Jeong T. C. and Jeong H. G. Antitumor efficacy of piperine in the treatment of human HER2-overexpressing breast cancer cells. *Food Chemistry* **Vol. 141**, pp. 2591-99 (2013)
- D'Orazi G. Homeodomain-Interacting Protein Kinase-2 Restrains Cytosolic Phospholipase A2-Dependent Prostaglandin E2 Generation in Human Colorectal Cancer Cells. *Clinical Cancer Research* **Vol. 12**, pp. 735-41 (2006)
- Ekanayake S., Keerthi A. A. P. and Premakumara G. A. S. A new cytotoxic flabelliferin from palmyrah (*Borassus flabellifer* L.) flour. *Journal of the National Science Foundation of Sri Lanka* **Vol. 37** (2009)
- Epstein F. H., Lewis R. A., Austen K. F. and Soberman R. J. Leukotrienes and Other Products of the 5-Lipoxygenase Pathway. *New England Journal of Medicine* **Vol. 323**, pp. 645-55 (1990)
- Fereidonia, M.; Ahmadiania, A.; Semnianianb, S.; Javan, M. An accurate and simple method for measurement of paw edema. *J. Pharmacol. Toxicol. Methods.* 2000, 43, 11-14.
- Fouladdel S., Khorashadizadeh M. and Azizi E. Antiproliferative effects, apoptosis induction and cell cycle alterations by trail and Berberin in MCF7 and MDA-MB-468 breast cancer cell lines. *Toxicology Letters* **Vol. 205**, pp. S114 (2011)

- Fuloria N. K. and Fuloria S. Structural Elucidation of Small Organic Molecules by 1D, 2D and Multi Dimensional-Solution NMR Spectroscopy. *J Anal Bioanal Tech* **Vol. s11** (2013)
- Gaikwad R. D., Ahmed M. L., Khalid M. S. and Swamy P. Anti-inflammatory activity of Madhuca longifolia seed saponin mixture. *Pharmaceutical Biology* **Vol. 47**, pp. 592-97 (2009)
- Gonzales A. M. and Orlando R. A. Curcumin and resveratrol inhibit nuclear factor-kappaB-mediated cytokine expression in adipocytes. *Nutrition & Metabolism* **Vol. 5**, pp. 17 (2008)
- Govinda, R.D.; Nagendra, S.Y.; Kaladhar, D.S.V.G.K.; Ajay, B.P.; Kamalakara, R.; Krishna C.K. Preliminary studies on *in vitro* anti-tumor activity of tender seed coat extract of *Borassus flabellifer* L.on HeLa cell line. *Int. J. Current Res.*, **2011**, 3, 075-077.
- H S., L Z., D W., A C., K W. and M M. The cyclooxygenase inhibitor ibuprofen and the FLAP inhibitor MK886 inhibit pancreatic carcinogenesis induced in hamsters by transplacental exposure to ethanol and the tobacco carcinogen NNK. *Journal of Cancer Research and Clinical Oncology* **Vol. 128**, pp. 525-32 (2002)
- Haeggström J. Z. and Funk C. D. Lipoxygenase and Leukotriene Pathways: Biochemistry, Biology, and Roles in Disease. *Chemical Reviews* **Vol. 111**, pp. 5866-98 (2011)
- Hamberg, M., and Samuelsson, B. On the metabolism of prostaglandins E₁ and E₂ in man. *J Biol Chem* 246 6713-6721 (1971).
- Heydar, P. *et al.*, Apoptosis Induction of *Salvia chorassanica* Root Extract on Human Cervical Cancer Cell Line. *Iranian J. Pharm. Res.* **12**, 75-83 (2013).
- Hoshino J., Park E.-J., Kondratyuk T. P., Marler L., Pezzuto J. M., van Breemen R. B., Mo S., Li Y. and Cushman M. Selective Synthesis and Biological Evaluation of Sulfate-Conjugated Resveratrol Metabolites. *J. Med. Chem.* **Vol. 53**, pp. 5033-43 (2010)
- Hu J.-j., Tian G. and Zhang N. Cytosolic phospholipase A2 and its role in cancer. *Clinical Oncology and Cancer Research* **Vol. 8**, pp. 71-76 (2011)
- Huang O., Xie Z., Zhang W., Lou Y., Mao Y., Liu H., Jiang M. and Shen K. A771726, an anti-inflammatory drug, exerts an anticancer effect and reverses tamoxifen resistance in endocrine-resistant breast cancer cells. *Oncology Reports* (2014)
- Hwang S.-J. and Chan C.-C. Improvement on Li et al.'s generalization of proxy signature schemes. *Computers & Security* **Vol. 23**, pp. 615-19 (2004)
- Ivanov N. I., Cowell S. P., Brown P., Rennie P. S., Guns E. S. and Cox M. E. Lycopene differentially induces quiescence and apoptosis in androgen-responsive and -independent prostate cancer cell lines. *Clinical Nutrition* **Vol. 26**, pp. 252-63 (2007)
- J. Thoppil R., Bhatia D., F. Barnes K., Haznagay-Radnai E., Hohmann J., S. Darvesh A. and Bishayee A. Black Currant Anthocyanins Abrogate Oxidative Stress through Nrf2-Mediated Antioxidant Mechanisms in a Rat Model of Hepatocellular Carcinoma. *Current Cancer Drug Targets* **Vol. 12**, pp. 1244-57 (2012)

- Jakubowicz-Gil J., Paduch R., Piersiak T., Główniak K., Gawron A. and Kandefler-Szerszeń M. The effect of quercetin on pro-apoptotic activity of cisplatin in HeLa cells. *Biochemical Pharmacology* **Vol. 69**, pp. 1343-50 (2005)
- Jayashree V Hanchinalmath, Ramesh Londonkar. Evaluation of Anti-Inflammatory Activity and Toxicity Studies of *Feronia limonia* in Acute Inflammatory Model in Rats. *Int. J. Pharm. Sci. Rev. Res.*, 25(1), 2014; 51, 303-306.
- Jayashree V Hanchinalmath, Ramesh Londonkar. Evaluation of Anti-Inflammatory Activity and Toxicity Studies of *Feronia limonia* in Acute Inflammatory Model in Rats. *Int. J. Pharm. Sci. Rev. Res.*, 25(1), 2014; 51, 303-306.
- Jeong C. H., Bode A. M., Pugliese A., Cho Y. Y., Kim H. G., Shim J. H., Jeon Y. J., Li H., Jiang H. and Dong Z. [6]-Gingerol Suppresses Colon Cancer Growth by Targeting Leukotriene A4 Hydrolase. *Cancer Research* **Vol. 69**, pp. 5584-91 (2009)
- Jia et al., **Indian patent no. 237881 (2004).**
- Jia et al., **U. S. patent no. 7108868 B2 (2006).**
- Jiang J., Neubauer B. L., Graff J. R., Chedid M., Thomas J. E., Roehm N. W., Zhang S., Eckert G. J., Koch M. O., Eble J. N. and Cheng L. Expression of Group IIA Secretory Phospholipase A2 Is Elevated in Prostatic Intraepithelial Neoplasia and Adenocarcinoma. *The American Journal of Pathology* **Vol. 160**, pp. 667-71 (2002)
- Jiang Y., Borrelli L. A., Kanaoka Y., Bacsikai B. J. and Boyce J. A. CysLT2 receptors interact with CysLT1 receptors and down-modulate cysteinyl leukotriene dependent mitogenic responses of mast cells. *Blood* **Vol. 110**, pp. 3263-70 (2007)
- Jiao J., Ishikawa T. O., Dumlao D. S., Norris P. C., Magyar C. E., Mikulec C., Catapang A., Dennis E. A., Fischer S. M. and Herschman H. R. Targeted Deletion and Lipidomic Analysis Identify Epithelial Cell COX-2 as a Major Driver of Chemically Induced Skin Cancer. *Molecular Cancer Research* **Vol. 12**, pp. 1677-88 (2014)
- Jiao J., Mikulec C., Ishikawa T. o., Magyar C., Dumlao D. S., Dennis E. A., Fischer S. M. and Herschman H. Cell-type-specific roles for COX-2 in UVB-induced skin cancer. *Carcinogenesis* **Vol. 35**, pp. 1310-19 (2014)
- Jin M., Kijima A., Hibi D., Ishii Y., Takasu S., Matsushita K., Kuroda K., Nohmi T., Nishikawa A. and Umemura T. In Vivo Genotoxicity of Methyleugenol in gpt Delta Transgenic Rats Following Medium-Term Exposure. *Toxicological Sciences* **Vol. 131**, pp. 387-94 (2012)
- Jo E.-H., Kim S.-H., Ahn N.-S., Park J.-S., Hwang J.-W., Lee Y.-S. and Kang K.-S. Efficacy of sulforaphane is mediated by p38 MAP kinase and caspase-7 activations in ER-positive and COX-2-expressed human breast cancer cells. *European Journal of Cancer Prevention* **Vol. 16**, pp. 505-10 (2007)

Johnson J. J., Nihal M., Siddiqui I. A., Scarlett C. O., Bailey H. H., Mukhtar H. and Ahmad N. Enhancing the bioavailability of resveratrol by combining it with piperine. *Molecular Nutrition & Food Research* **Vol. 55**, pp. 1169-76 (2011)

Johnson S. M., Wang X. and Evers B. M. Triptolide Inhibits Proliferation and Migration of Colon Cancer Cells by Inhibition of Cell Cycle Regulators and Cytokine Receptors. *Journal of Surgical Research* **Vol. 168**, pp. 197-205 (2011)

Joo M. and Sadikot R. T. PGD Synthase and PGD2in Immune Resposne. *Mediators of Inflammation* **Vol. 2012**, pp. 1-6 (2012)

Jung J.-Y. Antitumor actions of baicalein and wogonin in HT-29 human colorectal cancer cells. *Molecular Medicine Reports* (2012)

Kang G., Kong P.-J., Yuh Y.-J., Lim S.-Y., Yim S.-V., Chun W. and Kim S.-S. Curcumin Suppresses Lipopolysaccharide-Induced Cyclooxygenase-2 Expression by Inhibiting Activator Protein 1 and Nuclear Factor κ B Bindings in BV2 Microglial Cells. *J Pharmacol Sci* **Vol. 94**, pp. 325-28 (2004)

Kang N. J., Lee K. W., Kwon J. Y., Hwang M. K., Rogozin E. A., Heo Y. S., Bode A. M., Lee H. J. and Dong Z. Delphinidin Attenuates Neoplastic Transformation in JB6 Cl41 Mouse Epidermal Cells by Blocking Raf/Mitogen-Activated Protein Kinase Kinase/Extracellular Signal-Regulated Kinase Signaling. *Cancer Prevention Research* **Vol. 1**, pp. 522-31 (2008)

Kang N. J., Lee K. W., Shin B. J., Jung S. K., Hwang M. K., Bode A. M., Heo Y. S., Lee H. J. and Dong Z. Caffeic acid, a phenolic phytochemical in coffee, directly inhibits Fyn kinase activity and UVB-induced COX-2 expression. *Carcinogenesis* **Vol. 30**, pp. 321-30 (2008)

Kapetanovic I. M., Muzzio M., Huang Z., Thompson T. N. and McCormick D. L. Pharmacokinetics, oral bioavailability, and metabolic profile of resveratrol and its dimethylether analog, pterostilbene, in rats. *Cancer Chemotherapy and Pharmacology* **Vol. 68**, pp. 593-601 (2010)

Kapoor S. Clinical Applications of the Immunomodulatory Properties of Triptolide besides in Arthritis. *Scandinavian Journal of Immunology* **Vol. 69**, pp. 468-68 (2009)

Kargman S., Charleson S., Cartwright M., Frank J., Riendeau D., Mancini J., Evans J. and O'Neill G. Characterization of Prostaglandin G/H Synthase 1 and 2 in rat, dog, monkey, and human gastrointestinal tracts. *Gastroenterology* **Vol. 111**, pp. 445-54 (1996)

Karin, M.; Dieter, S.; Ewgenij, P. Inhibitors of the Arachidonic Acid Cascade: Interfering with Multiple Pathways. *Basic Clin. Pharmacol. Toxicol.*, **2014**, *114*, 83–91.

Karlsson S., Nånberg E., Fjaeraa C. and Wijkander J. Ellagic acid inhibits lipopolysaccharide-induced expression of enzymes involved in the synthesis of prostaglandin E2 in human monocytes. *British Journal of Nutrition*, **pp. 1** (2009)

Kaur G., Athar M. and Alam M. S. Eugenol precludes cutaneous chemical carcinogenesis in mouse by preventing oxidative stress and inflammation and by inducing apoptosis. *Mol. Carcinog.*, **pp. n/a-n/a** (2009)

- Kaur S., Grover I. S. and Kumar S. Antimutagenic Potential of Extracts Isolated from Terminalia Arjuna. *Journal of Environmental Pathology, Toxicology and Oncology* **Vol. 20**, pp. 6 (2001)
- Ke W. U. Preventive effects of berberine on experimental colon cancer and relationship with cyclooxygenase-2 expression. *China Journal of Chinese Materia Medica* (2010)
- Keerthi, A.A.P.; Ekanayake, S.; Premakumara, G.A.S. A new cytotoxic flabelliferin from palmyrah
- Keightley M. C., Sales K. J. and Jabbour H. N. PGF2 α -F-prostanoid receptor signalling via ADAMTS1 modulates epithelial cell invasion and endothelial cell function in endometrial cancer. *BMC Cancer* **Vol. 10** (2010)
- Kennedy-Feitosa E., Pinto R. F. S., Pires K. M. P., Monteiro A. P. T., Machado M. N., Santos J. C., Ribeiro M. L., Zin W. A., Canetti C. A., Romana-Souza B., Porto L. C. and Valenca S. S. The influence of 5-lipoxygenase on cigarette smoke-induced emphysema in mice. *Biochimica et Biophysica Acta (BBA) - General Subjects* **Vol. 1840**, pp. 199-208 (2014)
- Khan A. Q., Khan R., Tahir M., Rehman M. U., Lateef A., Ali F., Hamiza O. O., Hasan S. K. and Sultana S. Silibinin Inhibits Tumor Promotional Triggers and Tumorigenesis Against Chemically Induced Two-Stage Skin Carcinogenesis in Swiss Albino Mice: Possible Role of Oxidative Stress and Inflammation. *Nutrition and Cancer* **Vol. 66**, pp. 249-58 (2013)
- Khan Z. and Bagad M. Poly(n-butylcyanoacrylate) nanoparticles for oral delivery of quercetin: preparation, characterization, and pharmacokinetics and biodistribution studies in Wistar rats. *International Journal of Nanomedicine*, pp. 3921 (2015)
- Khare, C. P. (2007). *Indian Medicinal Plants: An Illustrated Dictionary*. Berlin: Springer Verlag. ISBN 978-0-387-70637-5.
- Kim D. H., Sung B., Chung H. Y. and Kim N. D. Modulation of Colitis-associated Colon Tumorigenesis by Baicalein and Betaine. *Journal of Cancer Prevention* **Vol. 19**, pp. 152-60 (2014)
- Kim D.-G., Bae G.-S., Jo I.-J., Choi S.-B., Kim M.-J., Jeong J.-H., Kang D.-G., Lee H.-S., Song H.-J. and Park S.-J. Guggulsterone Attenuated Lipopolysaccharide-Induced Inflammatory Responses in Mouse Inner Medullary Collecting Duct-3 Cells. *Inflammation* **Vol. 39**, pp. 87-95 (2015)
- Kim E. J., Park H., Kim J. and Park J. H. Y. 3,3' -diindolylmethane suppresses 12-O-tetradecanoylphorbol-13-acetate-induced inflammation and tumor promotion in mouse skin via the downregulation of inflammatory mediators. *Mol. Carcinog.* **Vol. 49**, pp. 672-83 (2010)
- Kim H. G., Han E. H., Jang W.-S., Choi J. H., Khanal T., Park B. H., Tran T. P., Chung Y. C. and Jeong H. G. Piperine inhibits PMA-induced cyclooxygenase-2 expression through downregulating NF- κ B, C/EBP and AP-1 signaling pathways in murine macrophages. *Food and Chemical Toxicology* **Vol. 50**, pp. 2342-48 (2012)

- Kim H.-N., Kim D.-H., Kim E.-H., Lee M.-H., Kundu J. K., Na H.-K., Cha Y.-N. and Surh Y.-J. Sulforaphane inhibits phorbol ester-stimulated IKK-NF- κ B signaling and COX-2 expression in human mammary epithelial cells by targeting NF- κ B activating kinase and ERK. *Cancer Letters* **Vol. 351**, pp. 41-49 (2014)
- Kim H.-S., Kim M.-J., Kim E. J., Yang Y., Lee M.-S. and Lim J.-S. Berberine-induced AMPK activation inhibits the metastatic potential of melanoma cells via reduction of ERK activity and COX-2 protein expression. *Biochemical Pharmacology* **Vol. 83**, pp. 385-94 (2012)
- Kim J. K., Kim Y. S., Kim Y., Uddin M. R., Kim Y. B., Kim H. H., Park S. Y., Lee M. Y., Chung S. O. and Park S. U. Comparative analysis of flavonoids and polar metabolites from hairy roots of *Scutellaria baicalensis* and *Scutellaria lateriflora*. *World Journal of Microbiology and Biotechnology* **Vol. 30**, pp. 887-92 (2013)
- Kim J.-E., Kwon J. Y., Seo S. K., Son J. E., Jung S. K., Min S. Y., Hwang M. K., Heo Y.-S., Lee K. W. and Lee H. J. Cyanidin suppresses ultraviolet B-induced COX-2 expression in epidermal cells by targeting MKK4, MEK1, and Raf-1. *Biochemical Pharmacology* **Vol. 79**, pp. 1473-82 (2010)
- Kim J.-K., Kim Y., Na K.-M., Surh Y.-J. and Kim T.-Y. [6]-Gingerol prevents UVB-induced ROS production and COX-2 expression in vitro and in vivo. *Free Radical Research* **Vol. 41**, pp. 603-14 (2007)
- Kim S. O., Chun K.-S., Kundu J. K. and Surh Y.-J. Inhibitory effects of [6]-gingerol on PMA-induced COX-2 expression and activation of NF- κ B and p38 MAPK in mouse skin. *BioFactors* **Vol. 21**, pp. 27-31 (2004)
- Kim S. O., Kundu J. K., Shin Y. K., Park J.-H., Cho M.-H., Kim T.-Y. and Surh Y.-J. [6]-Gingerol inhibits COX-2 expression by blocking the activation of p38 MAP kinase and NF- κ B in phorbol ester-stimulated mouse skin. *Oncogene* **Vol. 24**, pp. 2558-67 (2005)
- Kim S. S., Oh O. J., Min H.-Y., Park E.-J., Kim Y., Park H. J., Nam Han Y. and Lee S. K. Eugenol suppresses cyclooxygenase-2 expression in lipopolysaccharide-stimulated mouse macrophage RAW264.7 cells. *Life Sciences* **Vol. 73**, pp. 337-48 (2003)
- Kim S., Kim S. H., Hur S. M., Lee S.-K., Kim W. W., Kim J. S., Kim J.-H., Choe J.-H., Nam S. J., Lee J. E. and Yang J.-H. Silibinin prevents TPA-induced MMP-9 expression by down-regulation of COX-2 in human breast cancer cells. *Journal of Ethnopharmacology* **Vol. 126**, pp. 252-57 (2009)
- Kim Y. S., Young M. R., Bobe G., Colburn N. H. and Milner J. A. Bioactive Food Components, Inflammatory Targets, and Cancer Prevention. *Cancer Prevention Research* **Vol. 2**, pp. 200-08 (2009)
- Kimura Y. and Sumiyoshi M. Anti-tumor and anti-metastatic actions of wogonin isolated from *Scutellaria baicalensis* roots through anti-lymphangiogenesis. *Phytomedicine* **Vol. 20**, pp. 328-36 (2013)
- Kimura Y. and Sumiyoshi M. Effects of baicalein and wogonin isolated from *Scutellaria baicalensis* roots on skin damage in acute UVB-irradiated hairless mice. *European Journal of Pharmacology* **Vol. 661**, pp. 124-32 (2011)

- Kiritika K. R., Basu B. D. *Indian Medicinal Plants*, (Sudhindra Nath Basu, Allahabad, India, 1918, 747
- Kishan G.R., Jean M.M. *Bioactive Molecules and Medicinal Plants*, **Springer Science & Business Media**, (2008).
- Kitzen J. J. E. M., de Jonge M. J. A., Lamers C. H. J., Eskens F. A. L. M., van der Biessen D., van Doorn L., ter Steeg J., Brandely M., Puozzo C. and Verweij J. Phase I dose-escalation study of F60008, a novel apoptosis inducer, in patients with advanced solid tumours. *European Journal of Cancer* **Vol. 45**, pp. 1764-72 (2009)
- Knab L. M., Schultz M., Principe D. R., Mascarinas W. E., Gounaris E., Munshi H. G., Grippo P. J. and Bentrem D. J. Ablation of 5-lipoxygenase mitigates pancreatic lesion development. *Journal of Surgical Research* **Vol. 194**, pp. 481-87 (2015)
- Koeberle A., Northoff H. and Werz O. Identification of 5-lipoxygenase and microsomal prostaglandin E2 synthase-1 as functional targets of the anti-inflammatory and anti-carcinogenic garcinol. *Biochemical Pharmacology* **Vol. 77**, pp. 1513-21 (2009)
- Kono T., Kaneko A., Matsumoto C., Miyagi C., Ohbuchi K., Mizuhara Y., Miyano K. and Uezono Y. Multitargeted Effects of Hangeshashinto for Treatment of Chemotherapy-Induced Oral Mucositis on Inducible Prostaglandin E2 Production in Human Oral Keratinocytes. *Integrative Cancer Therapies* **Vol. 13**, pp. 435-45 (2014)
- Koontongkaew S., Monthanapisut P. and Saensuk T. Inhibition of arachidonic acid metabolism decreases tumor cell invasion and matrix metalloproteinase expression. *Prostaglandins & Other Lipid Mediators* **Vol. 93**, pp. 100-08 (2010)
- Korotkova M. and Lundberg I. E. The skeletal muscle arachidonic acid cascade in health and inflammatory disease. *Nat Rev Rheumatol* **Vol. 10**, pp. 295-303 (2014)
- Korotkova, M.; Lundberg, I.E. The skeletal muscle arachidonic acid cascade in health and inflammatory disease. *Nat. Rev. Rheumatol.*, **2014**, *10*, 295-303.
- Kovaříková M., Hofmanová J., Souček K. and Kozubík A. The effects of TNF- α and inhibitors of arachidonic acid metabolism on human colon HT-29 cells depend on differentiation status. *Differentiation* **Vol. 72**, pp. 23-31 (2004)
- Kowalczyk M. C., Kowalczyk P., Tolstykh O., Hanausek M., Walaszek Z. and Slaga T. J. Synergistic Effects of Combined Phytochemicals and Skin Cancer Prevention in SENCAR Mice. *Cancer Prevention Research* **Vol. 3**, pp. 170-78 (2010)
- Krysan K. Prostaglandin E2 Activates Mitogen-Activated Protein Kinase/Erk Pathway Signaling and Cell Proliferation in Non-Small Cell Lung Cancer Cells in an Epidermal Growth Factor Receptor-Independent Manner. *Cancer Research* **Vol. 65**, pp. 6275-81 (2005)
- Krzyzankova M., Chovanova S., Chlapek P., Radsetoulal M., Neradil J., Zitterbart K., Sterba J. and Veselska R. LOX/COX inhibitors enhance the antineoplastic effects of all-trans retinoic acid in osteosarcoma cell lines. *Tumor Biol.* **Vol. 35**, pp. 7617-27 (2014)

- Kucera O., Mezera V., Moravcova A., Endlicher R., Lotkova H., Drahota Z. and Cervinkova Z. In Vitro Toxicity of Epigallocatechin Gallate in Rat Liver Mitochondria and Hepatocytes. *Oxidative Medicine and Cellular Longevity* **Vol. 2015**, pp. 1-10 (2015)
- Kumar G., Sharmila Banu G., Murugesan A. G. and Rajasekara Pandian M. Effect of Helicteres isora . Bark Extracts on Brain Antioxidant Status and Lipid Peroxidation in Streptozotocin Diabetic Rats. *Pharmaceutical Biology* **Vol. 45**, pp. 753-59 (2007)
- Kumar G., Tajpara P. and Maru G. Dietary Turmeric Post-Treatment Decreases DMBA-Induced Hamster Buccal Pouch Tumor Growth by Altering Cell Proliferation and Apoptosis-Related Markers. *Journal of Environmental Pathology, Toxicology and Oncology* **Vol. 31**, pp. 295-312 (2012)
- Kundu J. K. Resveratrol inhibits phorbol ester-induced expression of COX-2 and activation of NF- B in mouse skin by blocking I B kinase activity. *Carcinogenesis* **Vol. 27**, pp. 1465-74 (2006)
- Kundu J. K., Shin Y. K. and Surh Y.-J. Resveratrol modulates phorbol ester-induced pro-inflammatory signal transduction pathways in mouse skin in vivo: NF- κ B and AP-1 as prime targets. *Biochemical Pharmacology* **Vol. 72**, pp. 1506-15 (2006)
- Kuo Y.-Y., Jim W.-T., Su L.-C., Chung C.-J., Lin C.-Y., Huo C., Tseng J.-C., Huang S.-H., Lai C.-J., Chen B.-C., Wang B.-J., Chan T.-M., Lin H.-P., Chang W.-S., Chang C.-R. and Chuu C.-P. Caffeic Acid Phenethyl Ester Is a Potential Therapeutic Agent for Oral Cancer. *IJMS* **Vol. 16**, pp. 10748-66 (2015)
- Kwon J. Y., Lee K. W., Hur H. J. and Lee H. J. Peonidin Inhibits Phorbol-Ester-Induced COX-2 Expression and Transformation in JB6 P+ Cells by Blocking Phosphorylation of ERK-1 and -2. *Annals of the New York Academy of Sciences* **Vol. 1095**, pp. 513-20 (2007)
- Kwon J. Y., Lee K. W., Kim J. E., Jung S. K., Kang N. J., Hwang M. K., Heo Y. S., Bode A. M., Dong Z. and Lee H. J. Delphinidin suppresses ultraviolet B-induced cyclooxygenases-2 expression through inhibition of MAPKK4 and PI-3 kinase. *Carcinogenesis* **Vol. 30**, pp. 1932-40 (2009)
- Labbozzetta M., Notarbartolo M., Poma P., Maurici A., Inguglia L., Marchetti P., Rizzi M., Baruchello R., Simoni D. and D'Alessandro N. Curcumin as a Possible Lead Compound against Hormone-Independent, Multidrug-Resistant Breast Cancer. *Annals of the New York Academy of Sciences* **Vol. 1155**, pp. 278-83 (2009)
- Lai K.-C., Hsu S.-C., Kuo C.-L., Yang J.-S., Ma C.-Y., Lu H.-F., Tang N.-Y., Hsia T.-C., Ho H.-C. and Chung J.-G. Diallyl sulfide, diallyl disulfide, and diallyl trisulfide inhibit migration and invasion in human colon cancer colo 205 cells through the inhibition of matrix metalloproteinase-2, -7, and -9 expressions. *Environmental Toxicology* **Vol. 28**, pp. 479-88 (2011)
- Lala G., Malik M., Zhao C., He J., Kwon Y., Giusti M. M. and Magnuson B. A. Anthocyanin-Rich Extracts Inhibit Multiple Biomarkers of Colon Cancer in Rats. *Nutrition and Cancer* **Vol. 54**, pp. 84-93 (2006)

- Lambert J. D., Meyers R. O., Timmermann B. N. and Dorr R. T. Pharmacokinetic analysis by high-performance liquid chromatography of intravenous nordihydroguaiaretic acid in the mouse. *Journal of Chromatography B: Biomedical Sciences and Applications* **Vol. 754**, pp. **85-90 (2001)**
- LaPointe M. C. and Isenovic E. Interleukin-1 Regulation of Inducible Nitric Oxide Synthase and Cyclooxygenase-2 Involves the p42/44 and p38 MAPK Signaling Pathways in Cardiac Myocytes. *Hypertension* **Vol. 33**, pp. **276-82 (1999)**
- Lau T. Y. and Leung L. K. Soya isoflavones suppress phorbol 12-myristate 13-acetate-induced COX-2 expression in MCF-7 cells. *British Journal of Nutrition* **Vol. 96**, pp. **169 (2006)**
- Lee C.-W., Lin C.-C., Lee I. T., Lee H.-C. and Yang C.-M. Activation and induction of cytosolic phospholipase A2 by TNF- α mediated through Nox2, MAPKs, NF- κ B, and p300 in human tracheal smooth muscle cells. *J. Cell. Physiol.* **Vol. 226**, pp. **2103-14 (2011)**
- Lee D. E., Lee K. W., Byun S., Jung S. K., Song N., Lim S. H., Heo Y. S., Kim J. E., Kang N. J., Kim B. Y., Bowden G. T., Bode A. M., Lee H. J. and Dong Z. 7,3',4'-Trihydroxyisoflavone, a Metabolite of the Soy Isoflavone Daidzein, Suppresses Ultraviolet B-induced Skin Cancer by Targeting Cot and MKK4. *Journal of Biological Chemistry* **Vol. 286**, pp. **14246-56 (2011)**
- Lee H. K. Success of 2013-2020 World Health Organization action plan to control non-communicable diseases would require pollutants control. *Journal of Diabetes Investigation* **Vol. 5**, pp. **621-22 (2014)**
- Lee I. T., Lin C.-C., Cheng S.-E., Hsiao L.-D., Hsiao Y.-C. and Yang C.-M. TNF- α Induces Cytosolic Phospholipase A2 Expression in Human Lung Epithelial Cells via JNK1/2- and p38 MAPK-Dependent AP-1 Activation. *PLoS ONE* **Vol. 8**, pp. **e72783 (2013)**
- Lee K. W., Kim J.-H., Lee H. J. and Surh Y.-J. Curcumin Inhibits Phorbol Ester-Induced Up-Regulation of Cyclooxygenase-2 and Matrix Metalloproteinase-9 by Blocking ERK1/2 Phosphorylation and NF- κ B Transcriptional Activity in MCF10A Human Breast Epithelial Cells. *Antioxidants & Redox Signaling* **Vol. 7**, pp. **1612-20 (2005)**
- Lee Y.-K., Park S. Y., Kim Y.-M. and Park O. J. Regulatory Effect of the AMPK-COX-2 Signaling Pathway in Curcumin-Induced Apoptosis in HT-29 Colon Cancer Cells. *Annals of the New York Academy of Sciences* **Vol. 1171**, pp. **489-94 (2009)**
- Leem D.-H., Choi K.-H., Han H.-S., Kim J.-H., Shin J.-A., Choi E.-S., Shim J.-H., Kong G., Min Y.-K., Nam J.-S., Oh S. H., Kim K.-A., Kwon K. H., Cho N.-P. and Cho S.-D. KO-202125, a sauristolactam derivate, induces apoptosis to prevent KB human oral squamous carcinoma cells through inhibition of cyclooxygenase-2 expression. *European Journal of Cancer Prevention* **Vol. 19**, pp. **23-30 (2010)**
- Lehr M. and Griessbach K. Involvement of different protein kinases and phospholipases A 2 in phorbol ester (TPA)-induced arachidonic acid liberation in bovine platelets. *Mediators of Inflammation* **Vol. 9**, pp. **31-34 (2000)**
- Lengauer T. and Rarey M. Computational methods for biomolecular docking. *Current Opinion in Structural Biology* **Vol. 6**, pp. **402-06 (1996)**

- Leung H. W. C., Yang W. H., Lai M. Y., Lin C. J. and Lee H. Z. Inhibition of 12-lipoxygenase during baicalein-induced human lung nonsmall carcinoma H460 cell apoptosis. *Food and Chemical Toxicology* **Vol. 45**, pp. 403-11 (2007)
- Leung S. Y., Chen X., Chu K. M., Yuen S. T., Mathy J., Ji J., Chan A. S. Y., Li R., Law S., Troyanskaya O. G., Tu I. P., Wong J., So S., Botstein D. and Brown P. O. Phospholipase A2 group IIA expression in gastric adenocarcinoma is associated with prolonged survival and less frequent metastasis. *Proceedings of the National Academy of Sciences* **Vol. 99**, pp. 16203-08 (2002)
- Lev-Ari S., Starr A., Katzburg S., Berkovich L., Rimmon A., Ben-Yosef R., Vexler A., Ron I. and Earon G. Curcumin induces apoptosis and inhibits growth of orthotopic human non-small cell lung cancer xenografts. *The Journal of Nutritional Biochemistry* **Vol. 25**, pp. 843-50 (2014)
- Lev-Ari S., Vexler A., Starr A., Ashkenazy-Voghera M., Greif J., Aderka D. and Ben-Yosef R. Curcumin Augments Gemcitabine Cytotoxic Effect on Pancreatic Adenocarcinoma Cell Lines. *Cancer Investigation* **Vol. 25**, pp. 411-18 (2007)
- Li H., Yang B., Huang J., Lin Y., Xiang T., Wan J., Li H., Chouaib S. and Ren G. Cyclooxygenase-2 in tumor-associated macrophages promotes breast cancer cell survival by triggering a positive-feedback loop between macrophages and cancer cells. *Oncotarget* **Vol. 6**, pp. 29637-50 (2015)
- Li J., Kong X., Li X., Yang Y. and Zhang J. Genotoxic evaluation of aspirin eugenol ester using the Ames test and the mouse bone marrow micronucleus assay. *Food and Chemical Toxicology* **Vol. 62**, pp. 805-09 (2013)
- Li J., Li O., Kan M., Zhang M., Shao D., Pan Y., Zheng H., Zhang X., Chen L. and Liu S. Berberine induces apoptosis by suppressing the arachidonic acid metabolic pathway in hepatocellular carcinoma. *Molecular Medicine Reports* (2015)
- Li J.-y., Yu Y.-g., Wang Q.-w., Zhang J.-y., Yang Y.-j., Li B., Zhou X.-z., Niu J.-r., Wei X.-j., Liu X.-w. and Liu Z.-q. Synthesis of aspirin eugenol ester and its biological activity. *Medicinal Chemistry Research* **Vol. 21**, pp. 995-99 (2011)
- Li L., Aggarwal B. B., Shishodia S., Abbruzzese J. and Kurzrock R. Nuclear factor- κ B and I κ B kinase are constitutively active in human pancreatic cells, and their down-regulation by curcumin (diferuloylmethane) is associated with the suppression of proliferation and the induction of apoptosis. *Cancer* **Vol. 101**, pp. 2351-62 (2004)
- Li M., Shi A., Pang H., Xue W., Li Y., Cao G., Yan B., Dong F., Li K., Xiao W., He G., Du G. and Hu X. Safety, tolerability, and pharmacokinetics of a single ascending dose of baicalein chewable tablets in healthy subjects. *Journal of Ethnopharmacology* **Vol. 156**, pp. 210-15 (2014)
- Li N. Overexpression of 5-Lipoxygenase and Cyclooxygenase 2 in Hamster and Human Oral Cancer and Chemopreventive Effects of Zileuton and Celecoxib. *Clinical Cancer Research* **Vol. 11**, pp. 2089-96 (2005)

Li W., Hua B., Saud S. M., Lin H., Hou W., Matter M. S., Jia L., Colburn N. H. and Young M. R. Berberine regulates AMP-activated protein kinase signaling pathways and inhibits colon tumorigenesis in mice. *Mol. Carcinog.* **Vol. 54**, pp. 1096-109 (2014)

Liang J., Wu W., Liu Q. and Chen S. Long-circulating nanoliposomes (LCNs) sustained delivery of baicalein (BAI) with desired oral bioavailability in vivo. *Drug Delivery* **Vol. 20**, pp. 319-23 (2013)

Liao C.-R., Kao C.-P., Peng W.-H., Chang Y.-S., Lai S.-C. and Ho Y.-L. Analgesic and Anti-Inflammatory Activities of Methanol Extract of *Ficus pumila* L. in Mice. *Evidence-Based Complementary and Alternative Medicine* **Vol. 2012**, pp. 1-9 (2012)

Licznarska B., Szafer H., Matuszak I., Murias M. and Baer-Dubowska W. Modulating Potential of L -Sulforaphane in the Expression of Cytochrome P450 to Identify Potential Targets for Breast Cancer Chemoprevention and Therapy Using Breast Cell Lines. *Phytother. Res.* **Vol. 29**, pp. 93-99 (2014)

Lim T.-G., Kwon J. Y., Kim J., Song N. R., Lee K. M., Heo Y.-S., Lee H. J. and Lee K. W. Cyanidin-3-glucoside suppresses B[a]PDE-induced cyclooxygenase-2 expression by directly inhibiting Fyn kinase activity. *Biochemical Pharmacology* **Vol. 82**, pp. 167-74 (2011)

Lima E. B. C., Sousa C. N. S., Meneses L. N., Ximenes N. C., Santos Júnior M. A., Vasconcelos G. S., Lima N. B. C., Patrocínio M. C. A., Macedo D. and Vasconcelos S. M. M. *Cocos nucifera* (L.) (Arecaceae): A phytochemical and pharmacological review. *Braz J Med Biol Res* **Vol. 48**, pp. 953-64 (2015)

Lima EB, Sousa CN, Meneses LN, Ximenes NC, Santos Júnior MA, Vasconcelos GS, Lima NB, Patrocínio MC, Macedo D, Vasconcelos SM. *Cocos nucifera* (L.) (Arecaceae): A phytochemical and pharmacological review. *Braz J Med Biol Res.* 2015;48(11):953-64.

Lima EB, Sousa CN, Meneses LN, Ximenes NC, Santos Júnior MA, Vasconcelos GS, Lima NB, Patrocínio MC, Macedo D, Vasconcelos SM. *Cocos nucifera* (L.) (Arecaceae): A phytochemical and pharmacological review. *Braz J Med Biol Res.* 2015;48(11):953-64.

Lin H.-Y., Huang B.-R., Yeh W.-L., Lee C.-H., Huang S.-S., Lai C.-H., Lin H. and Lu D.-Y. Antineuroinflammatory effects of lycopene via activation of adenosine monophosphate-activated protein kinase- α 1/heme oxygenase-1 pathways. *Neurobiology of Aging* **Vol. 35**, pp. 191-202 (2014)

Lin S.-Y., Tsai S.-J., Wang L.-H., Wu M.-F. and Lee H. Protection by Quercetin Against Cooking Oil Fumes-Induced DNA Damage in Human Lung Adenocarcinoma CL-3 Cells: Role of COX-2. *Nutrition and Cancer* **Vol. 44**, pp. 95-101 (2002)

Lin Y., Xu J., Liao H., Li L. and Pan L. Piperine induces apoptosis of lung cancer A549 cells via p53-dependent mitochondrial signaling pathway. *Tumor Biol.* **Vol. 35**, pp. 3305-10 (2013)

Lindahl M. and Tagesson C. Selective inhibition of group II phospholipase A2 by quercetin. *Inflammation* **Vol. 17**, pp. 573-82 (1993)

- Linkous A. G., Yazlovitskaya E. M. and Hallahan D. E. Cytosolic Phospholipase A2 and Lysophospholipids in Tumor Angiogenesis. *JNCI Journal of the National Cancer Institute* **Vol. 102, pp. 1398-412 (2010)**
- Linkous A., Geng L., Hallahan D. and Yazlovitskaya E. Cytosolic Phospholipase a2 (cpla2): Targeting Cancer Through the Ablation of Tumor Vasculature. *International Journal of Radiation Oncology*Biolog*Physics* **Vol. 72, pp. S64 (2008)**
- Lip YC, Wei KS, Kit YC, Mohd RM, Swee HG, Zamrie I. Lipoxygenase inhibiting activity of some alaysian plants. *Pharmaceutical Biology*. **Vol.47, No.12, 1142-1148 (2009)**.
- Liu N.-C., Hsieh P.-F., Hsieh M.-K., Zeng Z.-M., Cheng H.-L., Liao J.-W. and Chueh P. J. Capsaicin-Mediated tNOX (ENOX2) Up-regulation Enhances Cell Proliferation and Migration in Vitro and in Vivo. *J. Agric. Food Chem.* **Vol. 60, pp. 2758-65 (2012)**
- Liu Q. Triptolide and its expanding multiple pharmacological functions. *International Immunopharmacology* **Vol. 11, pp. 377-83 (2011)**
- Liu W., Kong S., Xie Q., Su J., Li W., Guo H., Li S., Feng X., Su Z., Xu Y. and Lai X. Protective effects of apigenin against 1-methyl-4-phenylpyridinium ion-induced neurotoxicity in PC12 cells. *International Journal of Molecular Medicine* **(2014)**
- Liu X., Ji Q., Ye N., Sui H., Zhou L., Zhu H., Fan Z., Cai J. and Li Q. Berberine Inhibits Invasion and Metastasis of Colorectal Cancer Cells via COX-2/PGE2 Mediated JAK2/STAT3 Signaling Pathway. *PLOS ONE* **Vol. 10, pp. e0123478 (2015)**
- Liu Z., Zhu P., Tao Y., Shen C., Wang S., Zhao L., Wu H., Fan F., Lin C., Chen C., Zhu Z., Wei Z., Sun L., Liu Y., Wang A. and Lu Y. Cancer-promoting effect of capsaicin on DMBA/TPA-induced skin tumorigenesis by modulating inflammation, Erk and p38 in mice. *Food and Chemical Toxicology* **Vol. 81, pp. 1-8 (2015)**
- Logeswari P., Dinesh Kumar V., Usha P.T.A., Prathap Kumar. *In Vivo* Antiinflammatory Effect of Emu Oil (*Dromais Novaehollandiae*) and Virgin Coconut Oil (*Cocos Nucifera*) on Phorbol Ester Induced Acute Inflammatory Model. *IJPSR*, 2014; Vol. 5(3): 896-899.
- Logeswari P., Dinesh Kumar V., Usha P.T.A., Prathap Kumar. *In Vivo* Antiinflammatory Effect of Emu Oil (*Dromais Novaehollandiae*) and Virgin Coconut Oil (*Cocos Nucifera*) on Phorbol Ester Induced Acute Inflammatory Model. *IJPSR*, 2014; Vol. 5(3): 896-899.
- Lövey J., Nie D., Tóvári J., Kenessey I., Tímár J., Kandouz M. and Honn K. V. Radiosensitivity of human prostate cancer cells can be modulated by inhibition of 12-lipoxygenase. *Cancer Letters* **Vol. 335, pp. 495-501 (2013)**
- Loza E. CD5 and CD23 expression on B cells in peripheral blood and synovial fluid of rheumatoid arthritis patients: relationship with interleukin- 4, soluble CD23 and tumour necrosis factor alpha levels. *Rheumatology* **Vol. 38, pp. 325-28 (1999)**
- Lü J.-M., Nurko J., Jiang J., Weakley S. M., Lin P. H., Yao Q. and Chen C. Nordihydroguaiaretic acid (NDGA) inhibits ritonavir-induced endothelial dysfunction in porcine pulmonary arteries. *Medical Science Monitor* **Vol. 17, pp. BR312-BR18 (2011)**

- Lucas C. M., Harris R. J., Giannoudis A., McDonald E. and Clark R. E. Low leukotriene B4 receptor 1 leads to ALOX5 downregulation at diagnosis of chronic myeloid leukemia. *Haematologica* **Vol. 99**, pp. 1710-15 (2014)
- Luo S.-F., Lin C.-C., Chen H.-C., Lin W.-N., Lee I. T., Lee C.-W., Hsiao L.-D. and Yang C.-M. Involvement of MAPKs, NF- κ B and p300 co-activator in IL-1 β -induced cytosolic phospholipase A2 expression in canine tracheal smooth muscle cells. *Toxicology and Applied Pharmacology* **Vol. 232**, pp. 396-407 (2008)
- Ma J.-X., Sun Y.-L., Wang Y.-Q., Wu H.-Y., Jin J. and Yu X.-F. Triptolide Induces Apoptosis and Inhibits the Growth and Angiogenesis of Human Pancreatic Cancer Cells by Downregulating COX-2 and VEGF. *Oncology Research Featuring Preclinical and Clinical Cancer Therapeutics* **Vol. 20**, pp. 359-68 (2013)
- Maccarrone M., Lorenzon T., Guerrieri P. and Agro A. F. Resveratrol prevents apoptosis in K562 cells by inhibiting lipoxygenase and cyclooxygenase activity. *Eur J Biochem* **Vol. 265**, pp. 27-34 (1999)
- Macha M. A., Matta A., Chauhan S. S., Siu K. W. M. and Ralhan R. Guggulsterone (GS) inhibits smokeless tobacco and nicotine-induced NF- κ B and STAT3 pathways in head and neck cancer cells. *Carcinogenesis* **Vol. 32**, pp. 368-80 (2010)
- Maclouf, J., Grassi, J., and Pradelles, P. Development of enzyme-immunoassay techniques for the measurement of eicosanoids, Chapter 5, in Prostaglandin and Lipid Metabolism in Radiation Injury. Walden, T.L., Jr. and Hughes, H.N., editors, Plenum Press, Rockville, 355-364 (1987).
- Magnusson C., Ehrnstrom R., Olsen J. and Sjolander A. An Increased Expression of Cysteinyl Leukotriene 2 Receptor in Colorectal Adenocarcinomas Correlates with High Differentiation. *Cancer Research* **Vol. 67**, pp. 9190-98 (2007)
- Mandal A., Bhatia D. and Bishayee A. Suppression of inflammatory cascade is implicated in methyl amooranin-mediated inhibition of experimental mammary carcinogenesis. *Mol. Carcinog.*, pp. n/a-n/a (2013)
- Mani Senthil Kumar K. T., Gorain B., Roy D. K., Zothanpuia, Samanta S. K., Pal M., Biswas P., Roy A., Adhikari D., Karmakar S. and Sen T. Anti-inflammatory activity of *Acanthus ilicifolius*. *Journal of Ethnopharmacology* **Vol. 120**, pp. 7-12 (2008)
- Mani Senthil Kumar KT, Gorain B, Roy DK, Zothanpuia, Samanta SK, Pal M, Biswas P, Roy A, Adhikari D, Karmakar S, Sen T. Anti-inflammatory activity of *Acanthus ilicifolius*. *J Ethnopharmacol.* 2008 Oct 30;120(1):7-12.
- Maniyar D. and Ch D. EVALUATION OF ANTI-INFLAMMATORY ACTIVITY OF ETHANOLIC EXTRACT OF CANANGA ODORATA LAM IN EXPERIMENTAL ANIMALS. *International Journal of Basic & Clinical Pharmacology*, pp. 1 (2015)
- Manoharan S., Sindhu G., Nirmal M. R., Vetrichelv V. and Balakrishn S. Protective Effect of Berberine on Expression Pattern of Apoptotic, Cell Proliferative, Inflammatory and Angiogenic Markers During 7,12-dimethylbenz(a)anthracene Induced Hamster Buccal Pouch Carcinogenesis. *Pakistan J. of Biological Sciences* **Vol. 14**, pp. 918-32 (2011)

- Mansour M. and Tornhamre S. Inhibition of 5-lipoxygenase and Leukotriene C 4 Synthase in Human Blood Cells by Thymoquinone. *Journal of Enzyme Inhibition and Medicinal Chemistry* **Vol. 19**, pp. 431-36 (2004)
- Marginean A. and Sharma-Walia N. Lipoxins exert antiangiogenic and anti-inflammatory effects on Kaposi's sarcoma cells. *Translational Research* **Vol. 166**, pp. 111-33 (2015)
- Marín Y. E., Wall B. A., Wang S., Namkoong J., Martino J. J., Suh J., Lee H. J., Rabson A. B., Yang C. S., Chen S. and Ryu J.-H. Curcumin downregulates the constitutive activity of NF- κ B and induces apoptosis in novel mouse melanoma cells. *Melanoma Research* **Vol. 17**, pp. 274-83 (2007)
- Martel, P.J.; Lajeunesse, D.; Reboul, P.; Pelletier, J.P. Therapeutic role of dual inhibitors of 5-LOX and COX, selective and non-selective non-steroidal anti-inflammatory drugs *Ann Rheum. Dis.*, 2003, 62, 501–509.
- Martel-Pelletier J. Therapeutic role of dual inhibitors of 5-LOX and COX, selective and non-selective non-steroidal anti-inflammatory drugs. *Annals of the Rheumatic Diseases* **Vol. 62**, pp. 501-09 (2003)
- Marti, x, n A. R., Villegas I., La Casa C. and de la Lastra C. A. Resveratrol, a polyphenol found in grapes, suppresses oxidative damage and stimulates apoptosis during early colonic inflammation in rats. *Biochemical Pharmacology* **Vol. 67**, pp. 1399-410 (2004)
- Martins C., Doran C., Laires A., Rueff J. and Rodrigues A. S. Genotoxic and apoptotic activities of the food flavourings myristicin and eugenol in AA8 and XRCC1 deficient EM9 cells. *Food and Chemical Toxicology* **Vol. 49**, pp. 385-92 (2011)
- Matsuyama M., Hayama T., Funao K., Kawahito Y., Sano H., Takemoto Y., Nakatani T. and Yoshimura R. Overexpression of cysteinyl LT1 receptor in prostate cancer and CysLT1R antagonist inhibits prostate cancer cell growth through apoptosis. *Oncology Reports* (2007)
- Mbimba T., Awale P., Bhatia D., J. Geldenhuys W., S. Darvesh A., T. Carroll R. and Bishayee A. Alteration of Hepatic Proinflammatory Cytokines is Involved in the Resveratrol-Mediated Chemoprevention of Chemically-Induced Hepatocarcinogenesis. *Current Pharmaceutical Biotechnology* **Vol. 13**, pp. 229-34 (2012)
- McHowat J., Gullickson G., Hoover R. G., Sharma J., Turk J. and Kornbluth J. Platelet-activating factor and metastasis: calcium-independent phospholipase A2 deficiency protects against breast cancer metastasis to the lung. *AJP: Cell Physiology* **Vol. 300**, pp. C825-C32 (2011)
- Meirer K., Steinhilber D. and Proschak E. Inhibitors of the Arachidonic Acid Cascade: Interfering with Multiple Pathways. *Basic Clin Pharmacol Toxicol* **Vol. 114**, pp. 83-91 (2013)
- Melinda, W.; Molina, M.; Alex, C.; Robert, A.; Floyd, Paula G.S.; Prasad, G.; Ladan, H.; Tammy, M.; Shenyun, M.; Quentin, N.P.; Charles, S.; Stuart, W.; Kelly, S.W.; Frank, Z.K.H. The arachidonic acid 5-lipoxygenase inhibitor nordihydroguaiaretic acid inhibits tumor necrosis factor α activation of microglia and extends survival of G93A-SOD1 transgenic mice. *J. Neurochem.*, 2004, 91, 133–143.

- Melstrom L. G., Bentrem D. J., Salabat M. R., Kennedy T. J., Ding X. Z., Strouch M., Rao S. M., Witt R. C., Ternent C. A., Talamonti M. S., Bell R. H. and Adrian T. A. Overexpression of 5-Lipoxygenase in Colon Polyps and Cancer and the Effect of 5-LOX Inhibitors In vitro and in a Murine Model. *Clinical Cancer Research* **Vol. 14**, pp. 6525-30 (2008)
- Messing E., Gee J. R., Saltzstein D. R., Kim K., diSant'Agnese A., Kolesar J., Harris L., Faerber A., Havighurst T., Young J. M., Efros M., Getzenberg R. H., Wheeler M. A., Tangrea J., Parnes H., House M., Busby J. E., Hohl R. and Bailey H. A Phase 2 Cancer Chemoprevention Biomarker Trial of Isoflavone G-2535 (Genistein) in Presurgical Bladder Cancer Patients. *Cancer Prevention Research* **Vol. 5**, pp. 621-30 (2012)
- Meyer A. M. Decreased lung tumorigenesis in mice genetically deficient in cytosolic phospholipase A2. *Carcinogenesis* **Vol. 25**, pp. 1517-24 (2004)
- Meyer M., Rastogi P., Beckett C. and McHowat J. Phospholipase A2 Inhibitors as Potential Anti-Inflammatory Agents. *CPD* **Vol. 11**, pp. 1301-12 (2005)
- Meyers R. O., Lambert J. D., Hajicek N., Pourpak A., Kalaitzis J. A. and Dorr R. T. Synthesis, characterization, and anti-melanoma activity of tetra-O-substituted analogs of nordihydroguaiaretic acid. *Bioorganic & Medicinal Chemistry Letters* **Vol. 19**, pp. 4752-55 (2009)
- Miroslava, K.; Silvia, C.; Petr, C.; Matej, R.; Jakub, N.; Karel, Z.; Jaroslav, S.; Renata, V. LOX/COX inhibitors enhance the antineoplastic effects of all-*trans* retinoic acid in osteosarcoma cell lines. *Tumor Biol.*, **2014**, *35*, 7617-7627.
- Mison N. A., Looi L.-M. and Mustapha N. R. N. *Asian Pacific Journal of Cancer Prevention* **Vol. 16**, pp. 1553-58 (2015)
- Mitsuishi M., Masuda S., Kudo I. and Murakami M. Group V and X secretory phospholipase A 2 prevents adenoviral infection in mammalian cells. *Biochem. J.* **Vol. 393**, pp. 97-106 (2006)
- Miyazawa M., Okuno Y. and Imanishi K. Suppression of the SOS-Inducing Activity of Mutagenic Heterocyclic Amine, Trp-P-1, by Triterpenoid from *Uncaria sinensis* in the *Salmonella typhimurium* TA1535/pSK1002 Umu Test. *J. Agric. Food Chem.* **Vol. 53**, pp. 2312-15 (2005)
- Mögel I., Baumann S., Böhme A., Kohajda T., von Bergen M., Simon J.-C. and Lehmann I. The aromatic volatile organic compounds toluene, benzene and styrene induce COX-2 and prostaglandins in human lung epithelial cells via oxidative stress and p38 MAPK activation. *Toxicology* **Vol. 289**, pp. 28-37 (2011)
- Morris, C.J. Carrageenan-Induced Paw Edema in the Rat and Mouse. *Methods Mol. Biol.*, **2003**, *225*, 115-121.
- Mosmann T. Rapid colorimetric assay for cellular growth and survival: Application to proliferation and cytotoxicity assays. *Journal of Immunological Methods* **Vol. 65**, pp. 55-63 (1983)

Mulabagal V., Subbaraju G. V., Rao C. V., Sivaramakrishna C., DeWitt D. L., Holmes D., Sung B., Aggarwal B. B., Tsay H.-S. and Nair M. G. Withanolide sulfoxide from *Aswagandha* roots inhibits nuclear transcription factor-kappa-B, cyclooxygenase and tumor cell proliferation. *Phytother. Res.* **Vol. 23**, pp. 987-92 (2009)

Muñoz-Espada A. C. and Watkins B. A. Cyanidin attenuates PGE₂ production and cyclooxygenase-2 expression in LNCaP human prostate cancer cells. *The Journal of Nutritional Biochemistry* **Vol. 17**, pp. 589-96 (2006)

Murugan V., Mukherjee K., Maiti K. and Mukherjee P. K. Enhanced Oral Bioavailability and Antioxidant Profile of Ellagic Acid by Phospholipids. *J. Agric. Food Chem.* **Vol. 57**, pp. 4559-65 (2009)

Mutoh M. Suppression of cyclooxygenase-2 promoter-dependent transcriptional activity in colon cancer cells by chemopreventive agents with a resorcin-type structure. *Carcinogenesis* **Vol. 21**, pp. 959-63 (2000)

Mutoh M., Takahashi M., Fukuda K., Komatsu H., Enya T., Matsushima-Hibiya Y., Mutoh H., Sugimura T. and Wakabayashi K. Suppression by Flavonoids of Cyclooxygenase-2 Promoter-dependent Transcriptional Activity in Colon Cancer Cells: Structure-Activity Relationship. *Japanese Journal of Cancer Research* **Vol. 91**, pp. 686-91 (2000)

Nagendra, S.Y.; Jyothi, P.I.; Rajeswara, R.P.; Surya, K.K.R.L.; Kaladhar, D.S.V.G.K.; Sai, T. Parvathi, T.; Gangadhar, H.; Siva, K.K.; Govinda, R.D. *In vitro* dose dependent study on antihuman pathogenic bacterial and free radical scavenging activities of methanolic seed coat extract of *Borassus flabellifer* L. *Asian J. Pharm. Clin. Res.*, **2012**, 5, 83-86.

Naskar S, Mazumder UK, Pramanik G, Saha P, Haldar PK, Gupta M. Evaluation of antinociceptive and anti-inflammatory activity of hydromethanol extract of *Cocos nucifera* L. *Inflammopharmacology*. 2013 Feb;21(1):31-5. doi: 10.1007/s10787-012-0135-7. Epub 2012 Apr 17.

Naskar S, Mazumder UK, Pramanik G, Saha P, Haldar PK, Gupta M. Evaluation of antinociceptive and anti-inflammatory activity of hydromethanol extract of *Cocos nucifera* L. *Inflammopharmacology*, Vol. **21(1)**, pp. 31-5 (2013).

Naskar S., Mazumder U. K., Pramanik G., Saha P., Haldar P. K. and Gupta M. Evaluation of antinociceptive and anti-inflammatory activity of hydromethanol extract of *Cocos nucifera* L. *Inflammopharmacology* **Vol. 21**, pp. 31-35 (2012)

Nataraj A., Raghavendra Gowda C., Rajesh R. and Vishwanath B. Group IIA Secretory PLA₂ Inhibition by Ursolic Acid: A Potent Anti-Inflammatory Molecule. *CTMC* **Vol. 7**, pp. 801-09 (2007)

Necrosis Factor- α Expression by Human Monocytic THP-1 Cells by Suppressing Transactivation through Adjacent NF- κ B and c-Jun-Activating Transcription Factor-2 Binding Sites in the Promoter. *J. Biol. Chem.*, 2000, 275, 18432–18440.

- Neeraj Kumar Fuloria and Shivkanya Fuloria. Structural Elucidation of Small Organic Molecules by 1D, 2D and Multi Dimensional-Solution NMR Spectroscopy. *J Anal Bioanal Techniques* 2013, S11.
- Nevalainen T. J., Haapamäki M. M. and Grönroos J. M. Roles of secretory phospholipases A2 in inflammatory diseases and trauma. *Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids* **Vol. 1488**, pp. 83-90 (2000)
- Nicolson, Dan Henry (1977). "Nomina conservanda proposita - *Amorphophallus*(Proposal to change the typification of 723*Amorphophallus*, nom. cons. (Araceae))". *Taxon* 26: 337–338.
- Nie D., Krishnamoorthy S., Jin R., Tang K., Chen Y., Qiao Y., Zacharek A., Guo Y., Milanini J., Pages G. and Honn K. V. Mechanisms Regulating Tumor Angiogenesis by 12-Lipoxygenase in Prostate Cancer Cells. *Journal of Biological Chemistry* **Vol. 281**, pp. 18601-09 (2006)
- Nie D., Nemeth J., Qiao Y., Zacharek A., Li L., Hanna K., Tang K., Hillman G. G., Cher M. L., Grignon D. J. and Honn K. V. *Clinical and Experimental Metastasis* **Vol. 20**, pp. 657-63 (2003)
- O'Callaghan G. and Houston A. Prostaglandin E2 and the EP receptors in malignancy: possible therapeutic targets? *British Journal of Pharmacology* **Vol. 172**, pp. 5239-50 (2015)
- Ogata S., Kubota Y., Yamashiro T., Takeuchi H., Ninomiya T., Suyama Y. and Shirasuna K. Signaling Pathways Regulating IL-1 -induced COX-2 Expression. *Journal of Dental Research* **Vol. 86**, pp. 186-91 (2007)
- Oh J. E., Kim M. S., Jeon W.-K., Seo Y. K., Kim B.-C., Hahn J. H. and Park C. S. A nuclear factor kappa B-derived inhibitor tripeptide inhibits UVB-induced photoaging process. *Journal of Dermatological Science* **Vol. 76**, pp. 196-205 (2014)
- Oyagbemi A. A., Saba A. B. and Azeez O. I. Capsaicin: A novel chemopreventive molecule and its underlying molecular mechanisms of action. *Indian Journal of Cancer* **Vol. 47**, pp. 53 (2010)
- Ozben T. Synergistic anticancer activity of curcumin and bleomycin: An *in vitro* study using human malignant testicular germ cells. *Molecular Medicine Reports* (2012)
- Pal H. C., Athar M., Elmets C. A. and Afaq F. Fisetin Inhibits UVB-induced Cutaneous Inflammation and Activation of PI3K/AKT/NF κ B Signaling Pathways in SKH-1 Hairless Mice. *Photochemistry and Photobiology* **Vol. 91**, pp. 225-34 (2014)
- Pan M.-H., Lai C.-S., Dushenkov S. and Ho C.-T. Modulation of Inflammatory Genes by Natural Dietary Bioactive Compounds. *J. Agric. Food Chem.* **Vol. 57**, pp. 4467-77 (2009)
- Pang X. Y., Cao J., Addington L., Lovell S., Battaile K. P., Zhang N., Rao J. L. U. M., Dennis E. A. and Moise A. R. Structure/Function Relationships of Adipose Phospholipase A2 Containing a Cys-His-His Catalytic Triad. *Journal of Biological Chemistry* **Vol. 287**, pp. 35260-74 (2012)
- Park B., Sung B., Yadav V. R., Chaturvedi M. M. and Aggarwal B. B. Retraction notice to "Triptolide, histone acetyltransferase inhibitor, suppresses growth and chemosensitizes

- leukemic cells through inhibition of gene expression regulated by TNF-TNFR1-TRADD-TRAF2-NIK-TAK1-IKK pathway" [Biochem. Pharmacol. 82 (2011) 1134–1144].
Biochemical Pharmacology **Vol. 102**, pp. 141 (2016)
- Park R. Systemic Treatment with Tetra-O-Methyl Nordihydroguaiaretic Acid Suppresses the Growth of Human Xenograft Tumors. *Clinical Cancer Research* **Vol. 11**, pp. 4601-09 (2005)
- Park S.-A., Na H.-K. and Surh Y.-J. Resveratrol suppresses 4-hydroxyestradiol-induced transformation of human breast epithelial cells by blocking I κ B kinase β -NF- κ B signalling. *Free Radical Research* **Vol. 46**, pp. 1051-57 (2012)
- Paruchuri S., Mezhybovska M., Juhas M. and Sjölander A. Endogenous production of leukotriene D4 mediates autocrine survival and proliferation via CysLT1 receptor signalling in intestinal epithelial cells. *Oncogene* **Vol. 25**, pp. 6660-65 (2006)
- Paschapur, M.S.; Patil, M.B.; Ravi, K.; Sachin, R.P. Evaluation of anti-inflammatory activity of ethanolic extract of *Borassus flabellifer* L. male flowers. (inflorescences) in experimental animals. *J. Med. Plants Res.*, **2009**, 3, 49-54.
- Patumraj S., Niruthisard, Bhattarakosol, Mahasiripanth T. and Hokputsa. Effects of *Acanthus ebracteatus* Vahl on tumor angiogenesis and on tumor growth in nude mice implanted with cervical cancer. *Cancer Management and Research*, pp. 269 (2012)
- Pazhang Y., Ahmadian S., Javadifar N. and Shafieyzadeh M. COX-2 and survivin reduction may play a role in berberine-induced apoptosis in human ductal breast epithelial tumor cell line. *Tumor Biology* **Vol. 33**, pp. 207-14 (2011)
- Peiffer D. S., Zimmerman N. P., Wang L. S., Ransom B. W. S., Carmella S. G., Kuo C. T., Siddiqui J., Chen J. H., Oshima K., Huang Y. W., Hecht S. S. and Stoner G. D. Chemoprevention of Esophageal Cancer with Black Raspberries, Their Component Anthocyanins, and a Major Anthocyanin Metabolite, Protocatechuic Acid. *Cancer Prevention Research* **Vol. 7**, pp. 574-84 (2014)
- Peters-Golden M. and Brock T. G. 5-Lipoxygenase and FLAP. *Prostaglandins, Leukotrienes and Essential Fatty Acids* **Vol. 69**, pp. 99-109 (2003)
- Piotrowska M., Szeffel J., Skrzypczak-Jankun E., Łysiak-Szydłowska W., Szajewski M., Aleksandrowicz-Wrona E. and Jankun J. The concentration of 12-lipoxygenase in platelet rich plasma as an indication of the cancer of the prostate. *wo* **Vol. 4**, pp. 389-93 (2013)
- Piyachaturawat P., Glinsukon T. and Toskulkao C. Acute and subacute toxicity of piperine in mice, rats and hamsters. *Toxicology Letters* **Vol. 16**, pp. 351-59 (1983)
- Poapolathep S., Imsilp K., Machii K., Kumagai S. and Poapolathep A. The Effects of Curcumin on Aflatoxin B1- Induced Toxicity in Rats. *Biocontrol Sci.* **Vol. 20**, pp. 171-77 (2015)
- Poligone B. and Baldwin A. S. Positive and Negative Regulation of NF- κ B by COX-2: ROLES OF DIFFERENT PROSTAGLANDINS. *Journal of Biological Chemistry* **Vol. 276**, pp. 38658-64 (2001)

- Polívková Z., Šmerák P., Demová H. and Houška M. Antimutagenic Effects of Lycopene and Tomato Purée. *Journal of Medicinal Food* **Vol. 13**, pp. 1443-50 (2010)
- Prabhakaran Y, Dinakaran SK, Macharala SP, Ghosh S, Karanam SR, Kanthasamy N, Avasarala H. Molecular docking studies of withanolides against Cox-2 enzyme. *Pak J Pharm Sci.* 2012 Jul;25(3):595-8.
- Prajapati V, Tripathi AK, Khanuja SPS and Kumar S. Anti/insect screening of medicinal plants from Kukrail Forest, ucknow, India Pharma. Biol. 2003;4:166-70.
- Prakobwong S., Khoontawad J., Yongvanit P., Pairojkul C., Hiraku Y., Sithithaworn P., Pinlaor P., Aggarwal B. B. and Pinlaor S. Curcumin decreases cholangiocarcinogenesis in hamsters by suppressing inflammation-mediated molecular events related to multistep carcinogenesis. *International Journal of Cancer* **Vol. 129**, pp. 88-100 (2010)
- Prasad N. S., Raghavendra R., Lokesh B. R. and Naidu K. A. Spice phenolics inhibit human PMNL 5-lipoxygenase. *Prostaglandins, Leukotrienes and Essential Fatty Acids* **Vol. 70**, pp. 521-28 (2004)
- Prasad S. and Tyagi A. K. Ginger and Its Constituents: Role in Prevention and Treatment of Gastrointestinal Cancer. *Gastroenterology Research and Practice* **Vol. 2015**, pp. 1-11 (2015)
- Pratheeshkumar P., Son Y.-O., Wang X., Divya S. P., Joseph B., Hitron J. A., Wang L., Kim D., Yin Y., Roy R. V., Lu J., Zhang Z., Wang Y. and Shi X. Cyanidin-3-glucoside inhibits UVB-induced oxidative damage and inflammation by regulating MAP kinase and NF- κ B signaling pathways in SKH-1 hairless mice skin. *Toxicology and Applied Pharmacology* **Vol. 280**, pp. 127-37 (2014)
- Priyanka yadav. *Madhuca lonifolia* (sapotaceae): a review of its traditional uses, phytochemistry and pharmacology. *International Journal of Biomedical Research.* 3[07]; [2012] ;293-305.
- Priyanka yadav. *Madhuca lonifolia* (sapotaceae): a review of its traditional uses, phytochemistry and pharmacology. *International Journal of Biomedical Research.* 3[07]; [2012] ;293-305.
- Putta S., Kilari E. K., Koratana R., Nagireddy N. R. and Qureshi A. A. Inhibitory Effects of Methonolic Pericarp Extract of *Feronia limonia* on in vitro Protein Glycoxydation. *International Journal of Pharmacology* **Vol. 11**, pp. 35-42 (2015)
- Qi, J.; Timothy, C.N.; Eric, R.; Scott, W. Isolation of a dual COX-2 and 5-lipoxygenase inhibitor from *Acacia*. U.S. Patent 8124134 B2, February 28, 2012.
- Qu L. and Liu B. Cyclooxygenase-2 promotes metastasis in osteosarcoma. *Cancer Cell International* **Vol. 15** (2015)
- Qureshi Absar A., Kumar K. Eswar, Omer Shaista. *Feronia limonia* –A Path Less Travelled. *International Journal of Research in Ayurveda & Pharmacy*, 2010; 1(1), 98-106.

- Qureshi Absar A., Kumar K. Eswar, Omer Shaista. *Feronia limonia* –A Path Less Travelled. *International Journal of Research in Ayurveda & Pharmacy*, 2010; 1(1), 98-106.
- Rafaela Ribeiro Silva, Davi Oliveira e Silva, Humberto Rollemberg Fontes, Celuta Sales Alviano, Patricia Dias Fernandes, and Daniela Sales Alviano. Anti-inflammatory, antioxidant, and antimicrobial activities of *Cocos nucifera* var. *typical*. *BMC Complement Altern Med*. 2013; 13: 107.
- Rafaela Ribeiro Silva, Davi Oliveira e Silva, Humberto Rollemberg Fontes, Celuta Sales Alviano, Patricia Dias Fernandes, and Daniela Sales Alviano. Anti-inflammatory, antioxidant, and antimicrobial activities of *Cocos nucifera* var. *typical*. *BMC Complement Altern Med*. 2013; 13: 107.
- Raghubeer S., Nagiah S., Phulukdaree A. and Chuturgoon A. The Phytoalexin Resveratrol Ameliorates Ochratoxin A Toxicity in Human Embryonic Kidney (HEK293) Cells. *Journal of Cellular Biochemistry* **Vol. 116, pp. 2947-55 (2015)**
- Ragolia L., Palaia T., Hall C. E., Klein J. and Büyük A. Diminished lipocalin-type prostaglandin D2 synthase expression in human lung tumors. *Lung Cancer* **Vol. 70, pp. 103-09 (2010)**
- Raina K., Agarwal C. and Agarwal R. Effect of silibinin in human colorectal cancer cells: Targeting the activation of NF- κ B signaling. *Mol. Carcinog.* **Vol. 52, pp. 195-206 (2011)**
- Ramadan M. F., Sharanabasappa G., Parmjyothi S., Seshagiri M. and Moersel J.-T. Profile and levels of fatty acids and bioactive constituents in mahua butter from fruit-seeds of buttercup tree [*Madhuca longifolia* (Koenig)]. *European Food Research and Technology* **Vol. 222, pp. 710-18 (2005)**
- Ramchandra D. Gaikwad, Md Liyaqat Ahmed, Md Saifuddin K., Paramjyothi S. Anti-inflammatory activity of *Madhuca longifolia* seed saponin mixture. *Pharmaceutical Biology*. **Vol.47, No. 7, pp. 592-597 (2009).**
- Ramchandra D. Gaikwad, Md Liyaqat Ahmed, Md Saifuddin Khalid & Paramjyothi Swamy. Anti-inflammatory activity of *Madhuca longifolia* seed saponin mixture. *Pharmaceutical Biology*. 2009, Volume 47, Issue 7, 592-597.
- Ramyaa P., krishnaswamy R. and Padma V. V. Quercetin modulates OTA-induced oxidative stress and redox signalling in HepG2 cells — up regulation of Nrf2 expression and down regulation of NF- κ B and COX-2. *Biochimica et Biophysica Acta (BBA) - General Subjects* **Vol. 1840, pp. 681-92 (2014)**
- Rao C. V., Janakiram N. B. and Mohammed A. Lipoyxygenase and Cyclooxygenase Pathways and Colorectal Cancer Prevention. *Current Colorectal Cancer Reports* **Vol. 8, pp. 316-24 (2012)**
- Rao C. V., Simi B. and Reddy B. S. Inhibition by dietary curcumin of azoxymethane-induced ornithine decarboxylase, tyrosine protein kinase, arachidonic acid metabolism and aberrant crypt foci formation in the rat colon. *Carcinogenesis* **Vol. 14, pp. 2219-25 (1993)**

Ratnam D. V., Ankola D. D., Bhardwaj V., Sahana D. K. and Kumar M. N. V. R. Role of antioxidants in prophylaxis and therapy: A pharmaceutical perspective. *Journal of Controlled Release* **Vol. 113**, pp. 189-207 (2006)

Ravindranath V. and Chandrasekhara N. Absorption and tissue distribution of curcumin in rats. *Toxicology* **Vol. 16**, pp. 259-65 (1980)

Reddanna, P.; Whelan, J.; Maddipati, K.R.; Reddy, C.C. Purification of arachidonate 5-lipoxygenase from potato tubers. *Methods. Enzymol.*, 1990, 187, 268-277

Reddanna, P.; Whelan, J.; Maddipati, K.R.; Reddy, C.C. Purification of arachidonate 5-lipoxygenase from potato tubers. *Methods. Enzymol.*, 1990, 187, 268-277

Reddy C. M., Bhat V. B., Kiranmai G., Reddy M. N., Reddanna P. and Madyastha K. M. Selective Inhibition of Cyclooxygenase-2 by C-Phycocyanin, a Biliprotein from *Spirulina platensis*. *Biochemical and Biophysical Research Communications* **Vol. 277**, pp. 599-603 (2000)

Reddy D. B. and Reddanna P. Chebulagic acid (CA) attenuates LPS-induced inflammation by suppressing NF- κ B and MAPK activation in RAW 264.7 macrophages. *Biochemical and Biophysical Research Communications* **Vol. 381**, pp. 112-17 (2009)

Reddy D. B., Reddy T. C. M., Jyotsna G., Sharan S., Priya N., Lakshmi pathi V. and Reddanna P. Chebulagic acid, a COX-LOX dual inhibitor isolated from the fruits of *Terminalia chebula* Retz., induces apoptosis in COLO-205 cell line. *Journal of Ethnopharmacology* **Vol. 124**, pp. 506-12 (2009)

Reddy M. K., Alexander-Lindo R. L. and Nair M. G. Relative Inhibition of Lipid Peroxidation, Cyclooxygenase Enzymes, and Human Tumor Cell Proliferation by Natural Food Colors. *J. Agric. Food Chem.* **Vol. 53**, pp. 9268-73 (2005)

Reddy, C.M.; Bhat, V.B.; Kiranmai, G.; Reddy, M.N.; Reddanna, P.; Madyastha, K.M. Selective inhibition of cyclooxygenase-2 by C-Phycocyanin, a biliprotein from *Spirulina platensis*. *Biochem. Biophys. Res. Commun.*, 2000, 277, 599-603.

Reddy, C.M.; Bhat, V.B.; Kiranmai, G.; Reddy, M.N.; Reddanna, P.; Madyastha, K.M. Selective inhibition of cyclooxygenase-2 by C-Phycocyanin, a biliprotein from *Spirulina platensis*. *Biochem. Biophys. Res. Commun.*, 2000, 277, 599-603.

Reis S., Neves, Lúcio, Martins and Lima. Novel resveratrol nanodelivery systems based on lipid nanoparticles to enhance its oral bioavailability. *International Journal of Nanomedicine*, pp. 177 (2013)

Renu Dayal, Amrita Singh, Rudra P. Ojha, K. P. Mishra. Possible therapeutic potential of *Helicteres isora* (L.) and its mechanism of action in diseases. *Journal of Medicinal Plants Studies* 2015; 3(2): 95-100.

Révész L., Hiestand P., La Vecchia L., Naef R., Naegeli H. U., Oberer L. and Roth H. J. Isolation and synthesis of a novel immunosuppressive 17 α -substituted dammarane from the

flour of the Palmyrah palm (*Borassus flabellifer*). *Bioorganic & Medicinal Chemistry Letters* **Vol. 9, pp. 1521-26 (1999)**

Révész, L.; Hiestand, P.; La, V.L.; Naef, R.; Naegel, H.U.; Oberer, L.; Roth, H.J. Isolation and synthesis of a novel immunosuppressive 17 α -substituted dammarane from the flour of the Palmyrah palm (*Borassus flabellifer*). *Bioorg. Med. Chem. Lett.*, **1999**, 9, 1521–1526.

Rinaldi S, Silva DO, Bello F, Alviano CS, Alviano DS, Matheus ME, Fernandes PD. Characterization of the antinociceptive and anti-inflammatory activities from *Cocos nucifera* L. (Palmae). *J Ethnopharmacol.* 2009 Apr 21;122(3):541-546.

Rinaldi S, Silva DO, Bello F, Alviano CS, Alviano DS, Matheus ME, Fernandes PD. Characterization of the antinociceptive and anti-inflammatory activities from *Cocos nucifera* L. (Palmae). *J Ethnopharmacol.* 2009 Apr 21;122(3):541-6.

Rinaldi S., Silva D. O., Bello F., Alviano C. S., Alviano D. S., Matheus M. E. and Fernandes P. D. Characterization of the antinociceptive and anti-inflammatory activities from *Cocos nucifera* L. (Palmae). *Journal of Ethnopharmacology* **Vol. 122, pp. 541-46 (2009)**

Rocco L., Mottola F., Santonastaso M., Saputo V., Cusano E., Costagliola D., Suero T., Pacifico S. and Stingo V. Anti-genotoxic ability of α -tocopherol and Anthocyanin to counteract fish DNA damage induced by musk xylene. *Ecotoxicology* **Vol. 24, pp. 2026-35 (2015)**

Rouzer C. A. and Marnett L. J. Cyclooxygenases: structural and functional insights. *The Journal of Lipid Research* **Vol. 50, pp. S29-S34 (2008)**

Royston K. J. and Tollefsbol T. O. The Epigenetic Impact of Cruciferous Vegetables on Cancer Prevention. *Curr Pharmacol Rep* **Vol. 1, pp. 46-51 (2015)**

Rundhaug J. E. and Fischer S. M. Cyclo-oxygenase-2 Plays a Critical Role in UV-induced Skin Carcinogenesis. *Photochemistry and Photobiology* **Vol. 84, pp. 322-29 (2008)**

Ryan C. J., Zavodovskaya M., Youngren J. F., Campbell M., Diamond M., Jones J., Shiry L., Allan G., Maddux B. A. and Goldfine I. D. Inhibitory effects of nordihydroguaiaretic acid (NDGA) on the IGF - 1 receptor and androgen dependent growth of LAPC - 4 prostate cancer cells. *The Prostate* **Vol. 68, pp. 1232-40 (2008)**

S. Darvesh A., B. Aggarwal B. and Bishayee A. Curcumin and Liver Cancer: A Review. *Current Pharmaceutical Biotechnology* **Vol. 13, pp. 218-28 (2012)**

Saba, Khan S., Parvez S., Chaudhari B., Ahmad F., Anjum S. and Raisuddin S. Ellagic acid attenuates bleomycin and cyclophosphamide-induced pulmonary toxicity in Wistar rats. *Food and Chemical Toxicology* **Vol. 58, pp. 210-19 (2013)**

Saleem T. H., Attya A. M., Ahmed E. A., Ragab S. M. M., Abdallah M. A. A. and Omar H. M. *Asian Pacific Journal of Cancer Prevention* **Vol. 16, pp. 5823-28 (2015)**

Samadi A. K., Bilsland A., Georgakilas A. G., Amedei A., Amin A., Bishayee A., Azmi A. S., Lokeshwar B. L., Grue B., Panis C., Boosani C. S., Poudyal D., Stafforini D. M., Bhakta D.,

Niccolai E., Guha G., Vasantha Rupasinghe H. P., Fujii H., Honoki K., Mehta K., Aquilano K., Lowe L., Hofseth L. J., Ricciardiello L., Ciriolo M. R., Singh N., Whelan R. L., Chaturvedi R., Ashraf S. S., Shantha Kumara H. M. C., Newsheer S., Mohammed S. I., Keith W. N., Helferich W. G. and Yang X. A multi-targeted approach to suppress tumor-promoting inflammation. *Seminars in Cancer Biology* **Vol. 35**, pp. S151-S84 (2015)

Samyikutty A., Shetty A. V., Dakshinamoorthy G., Bartik M. M., Johnson G. L., Webb B., Zheng G., Chen A., Kalyanasundaram R. and Munirathinam G. Piperine, a Bioactive Component of Pepper Spice Exerts Therapeutic Effects on Androgen Dependent and Androgen Independent Prostate Cancer Cells. *PLoS ONE* **Vol. 8**, pp. e65889 (2013)

Sandhya, S.; Sudhakar, K.; David, B.; Otilia, B.; Chaitanya, R.S.N.A.K.K. Antinociceptive, antiinflammatory and antibacterial Properties of leaf of female *Borassus flabellifer* (Arecaceae). *J. Exp. Sci.*, **2010**, *1*, 33-36.

Sangeetha M. K., Eazhisai Vallabi D., Sali V. K., Thanka J. and Vasanthi H. R. Sub-acute toxicity profile of a modified resveratrol supplement. *Food and Chemical Toxicology* **Vol. 59**, pp. 492-500 (2013)

Sarfaraz S., Siddiqui I. A., Syed D. N., Afaq F. and Mukhtar H. Guggulsterone modulates MAPK and NF- κ B pathways and inhibits skin tumorigenesis in SENCAR mice. *Carcinogenesis* **Vol. 29**, pp. 2011-18 (2008)

Satpathy S. R., Jala V. R., Bodduluri S. R., Krishnan E., Hegde B., Hoyle G. W., Fraig M., Luster A. D. and Haribabu B. Crystalline silica-induced leukotriene B₄-dependent inflammation promotes lung tumour growth. *Nature Communications* **Vol. 6**, pp. 7064 (2015)

Sawhney M., Rohatgi N., Kaur J., Shishodia S., Sethi G., Gupta S. D., Deo S. V. S., Shukla N. K., Aggarwal B. B. and Ralhan R. Expression of NF- κ B parallels COX-2 expression in oral precancer and cancer: Association with smokeless tobacco. *International Journal of Cancer* **Vol. 120**, pp. 2545-56 (2007)

Scheckel K. A., Degner S. C. and Romagnolo D. F. Rosmarinic Acid Antagonizes Activator Protein-1-Dependent Activation of Cyclooxygenase-2 Expression in Human Cancer and Nonmalignant Cell Lines. *Journal of Nutrition* **Vol. 138**, pp. 2098-105 (2008)

Schneider C. and Pozzi A. Cyclooxygenases and lipoxygenases in cancer. *Cancer and Metastasis Reviews* **Vol. 30**, pp. 277-94 (2011)

Schneider C., Amberg A., Feurle J., Roth A., Roth M., Tóth G. and Schreier P. 2-[(4'' - Hydroxy-3' -methoxy)-phenoxy]-4-(4'' -hydroxy-3'' -methoxy-phenyl)-8-hydroxy-6-oxo-3-oxabicyclo[3.3.0]-7-octene: unusual product of the soybean lipoxygenase-catalyzed oxygenation of curcumin. *Journal of Molecular Catalysis B: Enzymatic* **Vol. 4**, pp. 219-27 (1998)

Schneider C., Boeglin W. E., Yin H., Stec D. F. and Voehler M. Convergent Oxygenation of Arachidonic Acid by 5-Lipoxygenase and Cyclooxygenase-2. *J. Am. Chem. Soc.* **Vol. 128**, pp. 720-21 (2006)

- Schweiger D., Furstenberger G. and Krieg P. Inducible expression of 15-lipoxygenase-2 and 8-lipoxygenase inhibits cell growth via common signaling pathways. *The Journal of Lipid Research* **Vol. 48**, pp. 553-64 (2006)
- Scott K. F., Sajinovic M., Hein J., Nixdorf S., Galettis P., Liauw W., de Souza P., Dong Q., Graham G. G. and Russell P. J. Emerging roles for phospholipase A2 enzymes in cancer. *Biochimie* **Vol. 92**, pp. 601-10 (2010)
- Seeliger D. and de Groot B. L. Ligand docking and binding site analysis with PyMOL and Autodock/Vina. *Journal of Computer-Aided Molecular Design* **Vol. 24**, pp. 417-22 (2010)
- Seeram N. P., Adams L. S., Zhang Y., Lee R., Sand D., Scheuller H. S. and Heber D. Blackberry, Black Raspberry, Blueberry, Cranberry, Red Raspberry, and Strawberry Extracts Inhibit Growth and Stimulate Apoptosis of Human Cancer Cells In Vitro. *J. Agric. Food Chem.* **Vol. 54**, pp. 9329-39 (2006)
- Seeram N. P., Lee R. and Heber D. Bioavailability of ellagic acid in human plasma after consumption of ellagitannins from pomegranate (*Punica granatum* L.) juice. *Clinica Chimica Acta* **Vol. 348**, pp. 63-68 (2004)
- Seeram N. P., Zhang Y. and Nair M. G. Inhibition of Proliferation of Human Cancer Cells and Cyclooxygenase Enzymes by Anthocyanidins and Catechins. *Nutrition and Cancer* **Vol. 46**, pp. 101-06 (2003)
- Serra D., Rufino A. T., Mendes A. F., Almeida L. M. and Dinis T. C. P. Resveratrol Modulates Cytokine-Induced JAK/STAT Activation More Efficiently than 5-Aminosalicylic Acid: An In Vitro Approach. *PLoS ONE* **Vol. 9**, pp. e109048 (2014)
- Shaari K, Suppaiah V, Wai LK, Stanslas J, Tejo BA, Israf DA, Abas F, Ismail IS, Shuaib NH, Zareen S, Lajis NH. Bioassay-guided identification of an anti-inflammatory prenylated acylphloroglucinol from *Melicope ptelefolia* and molecular insights into its interaction with 5-lipoxygenase. *Bioorg Med Chem.* 2011 Nov 1;19(21):6340-7.
- Shankhajit De , Yadu Nandan Dey, Ajoy Kumar Ghosh. Anti-inflammatory activity of methanolic extract of *Amorphophallus paeoniifolius* and its possible mechanism. *International Journal of Pharma and Bio-Sciences*, 2010, Vol.1(3), 1-8.
- Shashi B., Jaswant S., Madhusudana R. J., Kumar S. A. and Nabi Q. G. A novel lignan composition from *Cedrus deodara* induces apoptosis and early nitric oxide generation in human leukemia Molt-4 and HL-60 cells. *Nitric Oxide* **Vol. 14**, pp. 72-88 (2006)
- Shirai Y., Balsinde J. and Dennis E. A. Localization and functional interrelationships among cytosolic Group IV, secreted Group V, and Ca²⁺-independent Group VI phospholipase A2s in P388D1 macrophages using GFP/RFP constructs. *Biochimica et Biophysica Acta (BBA) - Molecular and Cell Biology of Lipids* **Vol. 1735**, pp. 119-29 (2005)
- Silva R. R., e Silva D. O., Fontes H. R., Alviano C. S., Fernandes P. D. and Alviano D. S. Anti-inflammatory, antioxidant, and antimicrobial activities of *Cocos nucifera* var. *typica*. *BMC Complementary and Alternative Medicine* **Vol. 13** (2013)

- Singh, U.; Tabibian, J.; Venugopal, S.K.; Devraj, S.; Jiala, I. Development of an *in vitro* screening assay to test anti-inflammatory properties of dietary supplements and pharmacological agents. *Clinical Chem.*, 2005, *51*, 2252-2256.
- Sinha M., Gautam L., Shukla P. K., Kaur P., Sharma S. and Singh T. P. Current Perspectives in NSAID-Induced Gastropathy. *Mediators of Inflammation* **Vol. 2013**, pp. 1-11 (2013)
- Skelly M.M., Hawkey C.J. COX-LOX inhibition: current evidence for an emerging new therapy. *International Journal of Clinical Practice*. **Vol. 57 No.4**, pp.301-314 (2003).
- Smita Khare, Prabhat Khare, S K Jain, Anti-Inflammatory Activity Of Ethanolic Extract Of *Feronia Limonia* (L.) Leaves. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2014, Vol 3, Issue 5, 870-876.
- Smita Khare, Prabhat Khare, S K Jain, Anti-Inflammatory Activity Of Ethanolic Extract Of *Feronia Limonia* (L.) Leaves. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2014, Vol 3, Issue 5, 870-876.
- Sowndarya .R S. R. and Doss D. V. A. Evaluation of Antioxidant and Free Radical Scavenging Activities of Hydroethanolic Extracts of Punica Granatum Leaves, Seeds and Rind. *IJSR* **Vol. 3**, pp. 41-43 (2012)
- Steer, J.H.; Kroeger, K.M.; Abraham, L.J.; Joyce, D.A. Glucocorticoids Suppress Tumor
- Sudaroli M., Chatterjee T. K. Evaluation of red and white seed extracts of *Abrus precatorius* Linn. against freund's complete adjuvant induced arthritis in rats. *Journal of Medicinal Plants Research*. **Vol. 1(4)**, pp. 086-094 (2007).
- Sudaroli M., Chatterjee T. K. Evaluation of red and white seed extracts of *Abrus precatorius* Linn. against freund's complete adjuvant induced arthritis in rats. *Journal of Medicinal Plants Research* 2007, Vol. 1(4), pp. 086-094.
- Suresh Babu K. New bioactive molecules from Indian medicinal plants for pharmaceutical and insecticidal applications. *Biochemistry and Pharmacology* **Vol. 2, No.4**, 97 (2013).
- Suresh Babu K. New bioactive molecules from Indian medicinal plants for pharmaceutical and insecticidal applications. *Biochemistry and Pharmacology* **Vol. 2, No.4**, 97 (2013).
- Tang F.-Y., Pai M.-H. and Wang X.-D. Consumption of Lycopene Inhibits the Growth and Progression of Colon Cancer in a Mouse Xenograft Model. *J. Agric. Food Chem.* **Vol. 59**, pp. 9011-21 (2011)
- Tang H. Y. Resveratrol-induced cyclooxygenase-2 facilitates p53-dependent apoptosis in human breast cancer cells. *Molecular Cancer Therapeutics* **Vol. 5**, pp. 2034-42 (2006)
- Tasaki M., Umemura T., Maeda M., Ishii Y., Okamura T., Inoue T., Kuroiwa Y., Hirose M. and Nishikawa A. Safety assessment of ellagic acid, a food additive, in a subchronic toxicity study using F344 rats. *Food and Chemical Toxicology* **Vol. 46**, pp. 1119-24 (2008)

- Tatefuji T., Yanagihara M., Fukushima S. and Hashimoto K. Safety assessment of melinjo (*Gnetum gnemon* L.) seed extract: Acute and subchronic toxicity studies. *Food and Chemical Toxicology* **Vol. 67**, pp. 230-35 (2014)
- Tay A., Simon J. S., Squire J., Hamel K., Jacob H. J. and Skorecki K. Cytosolic phospholipase A2 gene in human and rat: chromosomal localization and polymorphic markers. *Genomics* **Vol. 26**, pp. 138-41 (1995)
- Teresa J. De Pascual, Bellido I.S., González M.S., Vicente S. Tetracyclic triterpenes and nerolidol derivatives from *Santolina oblongifolia*. *Vol. 25* (1), pp. 185-190 (1985)
- Tian Z. Anti-hepatoma activity and mechanism of ursolic acid and its derivatives isolated from *Aralia decaisneana*. *World Journal of Gastroenterology* **Vol. 12**, pp. 874 (2006)
- Timár J., Rásó E., Döme B., Li L., Grignon D., Nie D., Honn K. V. and Hagmann W. Expression, subcellular localization and putative function of platelet-type 12-lipoxygenase in human prostate cancer cell lines of different metastatic potential. *International Journal of Cancer* **Vol. 87**, pp. 37-43 (2000)
- Titsworth W., Liu N.-K. and Xu X.-M. Role of Secretory Phospholipase A2 in CNS Inflammation: Implications in Traumatic Spinal Cord Injury. *CNS & Neurological Disorders - Drug Targets* **Vol. 7**, pp. 254-69 (2008)
- Tong W.-G., Ding X.-Z. and Adrian T. E. The mechanisms of lipoxygenase inhibitor-induced apoptosis in human breast cancer cells. *Biochemical and Biophysical Research Communications* **Vol. 296**, pp. 942-48 (2002)
- Tong W.-G., Ding X.-Z., Talamonti M. S., Bell R. H. and Adrian T. E. LTB4 stimulates growth of human pancreatic cancer cells via MAPK and PI-3 kinase pathways. *Biochemical and Biophysical Research Communications* **Vol. 335**, pp. 949-56 (2005)
- Tong X., Lin S., Fujii M. and Hou D.-X. Echinocystic acid induces apoptosis in HL-60 cells through mitochondria-mediated death pathway. *Cancer Letters* **Vol. 212**, pp. 21-32 (2004)
- Tong X., Mirzoeva S., Veliceasa D., Bridgeman B. B., Fitchev P., Cornwell M. L., Crawford S. E., Pelling J. C. and Volpert O. V. Chemopreventive apigenin controls UVB-induced cutaneous proliferation and angiogenesis through HuR and thrombospondin-1. *Oncotarget* **Vol. 5**, pp. 11413-27 (2014)
- Tong X., Van Dross R. T., Abu-Yousif A., Morrison A. R. and Pelling J. C. Apigenin Prevents UVB-Induced Cyclooxygenase 2 Expression: Coupled mRNA Stabilization and Translational Inhibition. *Molecular and Cellular Biology* **Vol. 27**, pp. 283-96 (2006)
- Tong X., Zheng S. e., Jin J., Zhu L., Lou Y. and Yao H. Triptolide Inhibits Cyclooxygenase-2 and Inducible Nitric Oxide Synthase Expression in Human Colon Cancer and Leukemia Cells. *Acta Biochimica et Biophysica Sinica* **Vol. 39**, pp. 89-95 (2007)
- Tong, X.; Lin, S.; Fujii, M.; Hou, D.X. Echinocystic acid induces apoptosis in HL-60 cells through mitochondria mediated death pathway. *Cancer Lett.*, **2004**, *212*, 21–32.
- Tsai K.-D., Lin J.-C., Yang S.-m., Tseng M.-J., Hsu J.-D., Lee Y.-J. and Cherng J.-M. Curcumin Protects against UVB-Induced Skin Cancers in SKH-1 Hairless Mouse: Analysis of

Early Molecular Markers in Carcinogenesis. *Evidence-Based Complementary and Alternative Medicine* **Vol. 2012**, pp. 1-11 (2012)

Tsai M.-L., Lai C.-S., Chang Y.-H., Chen W.-J., Ho C.-T. and Pan M.-H. Pterostilbene, a natural analogue of resveratrol, potently inhibits 7,12-dimethylbenz[a]anthracene (DMBA)/12-O-tetradecanoylphorbol-13-acetate (TPA)-induced mouse skin carcinogenesis. *Food & Function* **Vol. 3**, pp. 1185 (2012)

Tukappa Nk A., Londonkar R. L., Kumar Cb S. and Nayaka H. B. Evaluation of in vitro and in vivo anti-inflammatory and toxicity studies of methanolic extract of *Rumex vesicarius* Linn. *Oriental Pharmacy and Experimental Medicine* **Vol. 15**, pp. 113-21 (2015)

Turner N. D., Paulhill K. J., Warren C. A., Davidson L. A., Chapkin R. S., Lupton J. R., Carroll R. J. and Wang N. QUERCETIN SUPPRESSES EARLY COLON CARCINOGENESIS PARTLY THROUGH INHIBITION OF INFLAMMATORY MEDIATORS. *Acta Hort.*, pp. 237-42 (2009)

Ueng Y.-F., Shyu C.-C., Liu T.-Y., Oda Y., Lin Y.-L., Liao J.-F. and Chen C.-F. Protective effects of baicalein and wogonin against benzo[a]pyrene- and aflatoxin B1-induced genotoxicities. Abbreviations: AF, aflatoxin; AFB1, aflatoxin B1; AHH, benzo[a]pyrene hydroxylation; CYP, cytochrome P450; and AFO, aflatoxin B1 oxidation. *Biochemical Pharmacology* **Vol. 62**, pp. 1653-60 (2001)

Ullmann, Haller, Decourt, Girault, Spitzer and Weber. Plasma-Kinetic Characteristics of Purified and Isolated Green Tea Catechin Epigallocatechin Gallate (EGCG) after 10 Days Repeated Dosing in Healthy Volunteers. *International Journal for Vitamin and Nutrition Research* **Vol. 74**, pp. 269-78 (2004)

Umesalma S. and Sudhandiran G. Differential Inhibitory Effects of the Polyphenol Ellagic Acid on Inflammatory Mediators NF- κ B, iNOS, COX-2, TNF- α , and IL-6 in 1,2-Dimethylhydrazine-Induced Rat Colon Carcinogenesis. *Basic & Clinical Pharmacology & Toxicology* **Vol. 107**, pp. 650-55 (2010)

Uyama T., Morishita J., Jin X. H., Okamoto Y., Tsuboi K. and Ueda N. The tumor suppressor gene H-Rev107 functions as a novel Ca²⁺-independent cytosolic phospholipase A1/2 of the thiol hydrolase type. *The Journal of Lipid Research* **Vol. 50**, pp. 685-93 (2008)

Vaidyanathan J. B. Cellular Uptake and Efflux of the Tea Flavonoid (-)Epicatechin-3-gallate in the Human Intestinal Cell Line Caco-2. *Journal of Pharmacology and Experimental Therapeutics* **Vol. 307**, pp. 745-52 (2003)

Van Dross R. T., Hong X., Essengue S., Fischer S. M. and Pelling J. C. Modulation of UVB-induced and basal cyclooxygenase-2 (COX-2) expression by apigenin in mouse keratinocytes: Role of USF transcription factors. *Mol. Carcinog.* **Vol. 46**, pp. 303-14 (2007)

Vane J. R., Bakhle Y. S. and Botting R. M. CYCLOOXYGENASES 1 AND 2. *Annu. Rev. Pharmacol. Toxicol.* **Vol. 38**, pp. 97-120 (1998)

Vareed S. K., Schutzki R. E. and Nair M. G. Lipid peroxidation, cyclooxygenase enzyme and tumor cell proliferation inhibitory compounds in *Cornus kousa* fruits. *Phytomedicine* **Vol. 14**, pp. 706-09 (2007)

- Villa-Cruz V., Davila J., Viana M. T. and Vazquez-Duhalt R. Effect of broccoli (*Brassica oleracea*) and its phytochemical sulforaphane in balanced diets on the detoxification enzymes levels of tilapia (*Oreochromis niloticus*) exposed to a carcinogenic and mutagenic pollutant. *Chemosphere* **Vol. 74**, pp. 1145-51 (2009)
- Walle T. HIGH ABSORPTION BUT VERY LOW BIOAVAILABILITY OF ORAL RESVERATROL IN HUMANS. *Drug Metabolism and Disposition* **Vol. 32**, pp. 1377-82 (2004)
- Wang D. and DuBois R. N. Eicosanoids and cancer. *Nature Reviews Cancer* **Vol. 10**, pp. 181-93 (2010)
- Wang D. Prostaglandin E2 Enhances Intestinal Adenoma Growth via Activation of the Ras-Mitogen-Activated Protein Kinase Cascade. *Cancer Research* **Vol. 65**, pp. 1822-29 (2005)
- Wang D., Fu L., Sun H., Guo L. and DuBois R. N. Prostaglandin E2 Promotes Colorectal Cancer Stem Cell Expansion and Metastasis in Mice. *Gastroenterology* **Vol. 149**, pp. 1884-95.e4 (2015)
- Wang D., Guo X.-Z., Li H.-Y., Zhao J.-J., Shao X.-D. and Wu C.-Y. Prognostic significance of cyclooxygenase-2 protein in pancreatic cancer: a meta-analysis. *Tumor Biol.* **Vol. 35**, pp. 10301-07 (2014)
- Wang D., Wang H., Shi Q., Katkuri S., Walhi W., Desvergne B., Das S. K., Dey S. K. and DuBois R. N. Prostaglandin E2 promotes colorectal adenoma growth via transactivation of the nuclear peroxisome proliferator-activated receptor δ . *Cancer Cell* **Vol. 6**, pp. 285-95 (2004)
- Wang J., Liu L., Qiu H., Zhang X., Guo W., Chen W., Tian Y., Fu L., Shi D., Cheng J., Huang W. and Deng W. Ursolic Acid Simultaneously Targets Multiple Signaling Pathways to Suppress Proliferation and Induce Apoptosis in Colon Cancer Cells. *PLoS ONE* **Vol. 8**, pp. e63872 (2013)
- Wang X., Huang C.-J., Yu G.-Z., Wang J.-J., Wang R., Li Y.-M. and Wu Q. Expression of group IIA phospholipase A2 is an independent predictor of favorable outcome for patients with gastric cancer. *Human Pathology* **Vol. 44**, pp. 2020-27 (2013)
- Wang Y.-C. and Huang K.-M. In vitro anti-inflammatory effect of apigenin in the *Helicobacter pylori*-infected gastric adenocarcinoma cells. *Food and Chemical Toxicology* **Vol. 53**, pp. 376-83 (2013)
- Warren C. A., Paulhill K. J., Davidson L. A., Lupton J. R., Taddeo S. S., Hong M. Y., Carroll R. J., Chapkin R. S. and Turner N. D. Quercetin May Suppress Rat Aberrant Crypt Foci Formation by Suppressing Inflammatory Mediators That Influence Proliferation and Apoptosis. *Journal of Nutrition* **Vol. 139**, pp. 101-05 (2008)
- Weber D. Inflammation and cancer: tumor initiation, progression and metastasis, and Chinese botanical medicines. *Journal of Chinese Integrative Medicine* **Vol. 8**, pp. 1006-13 (2010)
- Wei J., Yan W., Li X., Ding Y. and Tai H.-H. Thromboxane receptor α mediates tumor growth and angiogenesis via induction of vascular endothelial growth factor expression in human lung cancer cells. *Lung Cancer* **Vol. 69**, pp. 26-32 (2010)

- Weiser-Evans M. C. M., Wang X. Q., Amin J., Van Putten V., Choudhary R., Winn R. A., Scheinman R., Simpson P., Geraci M. W. and Nemenoff R. A. Depletion of Cytosolic Phospholipase A2 in Bone Marrow-Derived Macrophages Protects against Lung Cancer Progression and Metastasis. *Cancer Research* **Vol. 69**, pp. 1733-38 (2009)
- West M., Mhatre M., Ceballos A., Floyd R. A., Grammas P., Gabbita S. P., Hamdheydari L., Mai T., Mou S., Pye Q. N., Stewart C., West S., Williamson K. S., Zemlan F. and Hensley K. The arachidonic acid 5-lipoxygenase inhibitor nordihydroguaiaretic acid inhibits tumor necrosis factor alpha activation of microglia and extends survival of G93A-SOD1 transgenic mice. *Journal of Neurochemistry* **Vol. 91**, pp. 133-43 (2004)
- Williams C. S., Mann M. and DuBois R. N. The role of cyclooxygenases in inflammation, cancer, and development. *Oncogene* **Vol. 18**, pp. 7908-16 (2000)
- Williams, C.S.; Mann, M.; Dubois, R.N. The role of cyclooxygenases in inflammation, cancer, and development. *Oncogene*, 1999, 18, 7908-7916.
- Wong B. C. Y. 12-Lipoxygenase inhibition induced apoptosis in human gastric cancer cells. *Carcinogenesis* **Vol. 22**, pp. 1349-54 (2001)
- Woo K. J. and Kwon T. K. Sulforaphane suppresses lipopolysaccharide-induced cyclooxygenase-2 (COX-2) expression through the modulation of multiple targets in COX-2 gene promoter. *International Immunopharmacology* **Vol. 7**, pp. 1776-83 (2007)
- Wootton P. T. E., Flavell D. M., Montgomery H. E., World M., Humphries S. E. and Talmud P. J. Lipoprotein-associated phospholipase A2 A379V variant is associated with body composition changes in response to exercise training. *Nutrition, Metabolism and Cardiovascular Diseases* **Vol. 17**, pp. 24-31 (2007)
- Wu D.-G., Yu P., Li J.-W., Jiang P., Sun J., Wang H.-Z., Zhang L.-D., Wen M.-B. and Bie P. Apigenin potentiates the growth inhibitory effects by IKK- β -mediated NF- κ B activation in pancreatic cancer cells. *Toxicology Letters* **Vol. 224**, pp. 157-64 (2014)
- Wu H., Hsieh M.-C., Lo C.-Y., Liu C. B., Sang S., Ho C.-T. and Pan M.-H. 6-Shogaol is more effective than 6-gingerol and curcumin in inhibiting 12-O-tetradecanoylphorbol 13-acetate-induced tumor promotion in mice. *Molecular Nutrition & Food Research* **Vol. 54**, pp. 1296-306 (2010)
- Wu K., Fukuda K., Xing F., Zhang Y., Sharma S., Liu Y., Chan M. D., Zhou X., Qasem S. A., Pochampally R., Mo Y.-Y. and Watabe K. Roles of the Cyclooxygenase 2 Matrix Metalloproteinase 1 Pathway in Brain Metastasis of Breast Cancer. *Journal of Biological Chemistry* **Vol. 290**, pp. 9842-54 (2015)
- Xia Y., Khoi P. N., Yoon H. J., Lian S., Joo Y. E., Chay K. O., Kim K. K. and Jung Y. D. Piperine inhibits IL-1 β -induced IL-6 expression by suppressing p38 MAPK and STAT3 activation in gastric cancer cells. *Molecular and Cellular Biochemistry* **Vol. 398**, pp. 147-56 (2014)
- Xian, Z.D.; Rene, H.; Thomas, E.A. Lipoxygenase and cyclooxygenase metabolism: new insights in treatment and chemoprevention of pancreatic cancer. *Mol. Cancer*, 2003, 2, 10.

- Xing J., Chen X. and Zhong D. Absorption and enterohepatic circulation of baicalin in rats. *Life Sciences* **Vol. 78**, pp. 140-46 (2005)
- Xing X.-F., Li H., Zhong X.-Y., Zhang L.-H., Wang X.-H., Liu Y.-Q., Jia S.-Q., Shi T., Niu Z.-J., Peng Y., Du H., Zhang G.-G., Hu Y., Lu A.-P., Li J.-Y., Chen S. and Ji J.-F. Phospholipase A2 group IIA expression correlates with prolonged survival in gastric cancer. *Histopathology* **Vol. 59**, pp. 198-206 (2011)
- Xu D., Ma Y., Zhao B., Li S., Zhang Y., Pan S., Wu Y., Wang J., Wang D., Pan H., Liu L. and Jiang H. Thymoquinone induces G2/M arrest, inactivates PI3K/Akt and nuclear factor- κ B pathways in human cholangiocarcinomas both in vitro and in vivo. *Oncology Reports* (2014)
- Xu G.-L., Du Y.-F., Cheng J., Huan L., Chen S.-C., Wei S.-H., Gong Z.-N., Cai J., Qiu T., Wu H., Sun T. and Ao G.-Z. Inhibition of inflammatory mediators contributes to the anti-inflammatory activity of KYKZL-1 via MAPK and NF- κ B pathway. *Toxicology and Applied Pharmacology* **Vol. 272**, pp. 221-29 (2013)
- Xu H.-B., Xu L.-Z., Mao X.-P. and Fu J. Guggulsterone of *Commiphora mukul* resin reverses drug resistance in imatinib-resistant leukemic cells by inhibiting cyclooxygenase-2 and P-glycoprotein. *Phytomedicine* **Vol. 21**, pp. 1004-09 (2014)
- Xu L., Stevens J., Hilton M. B., Seaman S., Conrads T. P., Veenstra T. D., Logsdon D., Morris H., Swing D. A., Patel N. L., Kalen J., Haines D. C., Zudaire E. and St. Croix B. COX-2 Inhibition Potentiates Antiangiogenic Cancer Therapy and Prevents Metastasis in Preclinical Models. *Science Translational Medicine* **Vol. 6**, pp. 242ra84-42ra84 (2014)
- Xu X., Qin J. and Liu W. Curcumin inhibits the invasion of thyroid cancer cells via down-regulation of PI3K/Akt signaling pathway. *Gene* **Vol. 546**, pp. 226-32 (2014)
- Xu X.-M. 5-Lipoxygenase contributes to the progression of hepatocellular carcinoma. *Molecular Medicine Reports* (2011)
- Xu X.-M., Yuan G.-J., Deng J.-J., Guo H.-T., Xiang M., Yang F., Ge W. and Chen S.-Y. Inhibition of 12-lipoxygenase reduces proliferation and induces apoptosis of hepatocellular carcinoma cells in vitro and in vivo. *Hepatobiliary & Pancreatic Diseases International* **Vol. 11**, pp. 193-202 (2012)
- Yadav P. Review MADHUCA LONIGFOLIA (Sapotaceae): A review of its traditional uses, Phytochemistry and pharmacology. *International Journal of Biomedical Research* **Vol. 3** (2012)
- Yadu Nandan Dey, Shankhajit De, Ajoy Kumar Ghosh. Evaluation of Analgesic Activity of Methanolic Extract of *Amorphophallus Paeoniifolius* Tuber by Tail Flick And Acetic Acid-Induced Writhing Response Method. *International Journal of Pharma and Bio Sciences*. 2010; Vol.1/Issue-4; 662-668.
- Yaffe P. B., Power Coombs M. R., Doucette C. D., Walsh M. and Hoskin D. W. Piperine, an alkaloid from black pepper, inhibits growth of human colon cancer cells via G1 arrest and apoptosis triggered by endoplasmic reticulum stress. *Mol. Carcinog.* **Vol. 54**, pp. 1070-85 (2014)

- Yagmurca M., Yasar Z. and Bas O. Effects of quercetin on kidney injury induced by doxorubicin. *Bratislava Medical Journal* **Vol. 116**, pp. 486-89 (2015)
- Yamada T., Osawa S., Ikuma M., Kajimura M., Sugimoto M., Furuta T., Iwaizumi M. and Sugimoto K. Guggulsterone, a Plant-Derived Inhibitor of NF- κ B, Suppresses CDX2 and COX-2 Expression and Reduces the Viability of Esophageal Adenocarcinoma Cells. *Digestion* **Vol. 90**, pp. 208-17 (2014)
- Yamashita S. I., Yamashita J. I. and Ogawa M. Overexpression of group II phospholipase A2 in human breast cancer tissues is closely associated with their malignant potency. *Br J Cancer* **Vol. 69**, pp. 1166-70 (1994)
- Yamashita S.-i., Ogawa M., Sakamoto K., Abe T., Arakawa H. and Yamashita J.-i. Elevation of serum group II phospholipase A2 levels in patients with advanced cancer. *Clinica Chimica Acta* **Vol. 228**, pp. 91-99 (1994)
- Yan Y., Wang B., Zuo Y.-g. and Qu T. Inhibitory Effects of Mizolastine on Ultraviolet B-Induced Leukotriene B4 Production and 5-Lipoxygenase Expression in Normal Human Dermal Fibroblasts In Vitro. *Photochemistry and Photobiology* **Vol. 82**, pp. 665 (2006)
- Yang C. M., Lee I. T., Chi P. L., Cheng S. E., Hsiao L. D. and Hsu C. K. TNF- induces cytosolic phospholipase A2 expression via Jak2/PDGFR-dependent Elk-1/p300 activation in human lung epithelial cells. *AJP: Lung Cellular and Molecular Physiology* **Vol. 306**, pp. L543-L51 (2014)
- Yang G., Zhong L., Jiang L., Geng C., Cao J., Sun X. and Ma Y. Genotoxic effect of 6-gingerol on human hepatoma G2 cells. *Chemico-Biological Interactions* **Vol. 185**, pp. 12-17 (2010)
- Yang G., Zhong L., Jiang L., Geng C., Cao J., Sun X., Liu X., Chen M. and Ma Y. 6-Gingerol Prevents Patulin-induced Genotoxicity in HepG2 Cells. *Phytother. Res.* **Vol. 25**, pp. 1480-85 (2011)
- Yang H. J., Youn H., Seong K. M., Yun Y. J., Kim W., Kim Y. H., Lee J. Y., Kim C. S., Jin Y.-W. and Youn B. Psoralidin, a dual inhibitor of COX-2 and 5-LOX, regulates ionizing radiation (IR)-induced pulmonary inflammation. *Biochemical Pharmacology* **Vol. 82**, pp. 524-34 (2011)
- Yang HJ, Youn H, Seong KM, Yun YJ, Kim W, Kim YH, Lee JY, Kim CS, Jin YW, Youn B. Psoralidin, a dual inhibitor of COX-2 and 5-LOX, regulates ionizing radiation (IR)-induced pulmonary inflammation. *Biochem Pharmacol.* 2011;82(5):524-34.
- Yang J.-M. and Chen C.-C. GEMDOCK: A generic evolutionary method for molecular docking. *Proteins* **Vol. 55**, pp. 288-304 (2004)
- Yang J.-M. Development and evaluation of a generic evolutionary method for protein-ligand docking. *J. Comput. Chem.* **Vol. 25**, pp. 843-57 (2004)
- Yang S. F., Chen M. K., Hsieh Y. S., Chung T. T., Hsieh Y. H., Lin C. W., Su J. L., Tsai M.H. and Tang C. H. Prostaglandin E2/EP1 Signaling Pathway Enhances Intercellular Adhesion

- Molecule 1 (ICAM-1) Expression and Cell Motility in Oral Cancer Cells. *Journal of Biological Chemistry* **Vol. 285**, pp. 29808-16 (2010)
- Yang X.-W., Wang X.-L., Cao L.-Q., Jiang X.-F., Peng H.-P., Lin S.-M., Xue P. and Chen D. Green tea polyphenol epigallocatechin-3-gallate enhances 5-fluorouracil-induced cell growth inhibition of hepatocellular carcinoma cells. *Hepatology Research* **Vol. 42**, pp. 494-501 (2012)
- Yarla N., Azad R., Basha M., Rajack A., Kaladhar D. S. V. G. K., Allam B., Pragada R., Singh K., K S., Pallu R., Parimi U., Bishayee A. and Duddukuri G. 5-Lipoxygenase and Cyclooxygenase Inhibitory Dammarane Triterpenoid 1 from *Borassus flabellifer* Seed Coat Inhibits Tumor Necrosis Factor- α Secretion in LPS-Induced THP-1 Human Monocytes and Induces Apoptosis in MIA PaCa-2 Pancreatic Cancer Cells. *Anti-Cancer Agents in Medicinal Chemistry* **Vol. 15**, pp. 1066-77 (2015)
- Ye Y. N., Wu W. K. K., Shin V. Y. and Cho C. H. A mechanistic study of colon cancer growth promoted by cigarette smoke extract. *European Journal of Pharmacology* **Vol. 519**, pp. 52-57 (2005)
- Yi C., Zhang Y., Yu Z., Xiao Y., Wang J., Qiu H., Yu W., Tang R., Yuan Y., Guo W. and Deng W. Melatonin Enhances the Anti-Tumor Effect of Fisetin by Inhibiting COX-2/iNOS and NF- κ B/p300 Signaling Pathways. *PLoS ONE* **Vol. 9**, pp. e99943 (2014)
- Yi Lau G. T. and Leung L. K. The dietary flavonoid apigenin blocks phorbol 12-myristate 13-acetate-induced COX-2 transcriptional activity in breast cell lines. *Food and Chemical Toxicology* **Vol. 48**, pp. 3022-27 (2010)
- Ying X., Yu K., Chen X., Chen H., Hong J., Cheng S. and Peng L. Piperine inhibits LPS induced expression of inflammatory mediators in RAW 264.7 cells. *Cellular Immunology* **Vol. 285**, pp. 49-54 (2013)
- Yoshida K., Tanaka T., Hirose Y., Yamaguchi F., Kohno H., Toida M., Hara A., Sugie S., Shibata T. and Mori H. Dietary garcinol inhibits 4-nitroquinoline 1-oxide-induced tongue carcinogenesis in rats. *Cancer Letters* **Vol. 221**, pp. 29-39 (2005)
- Youngren J. F., Gable K., Penaranda C., Maddux B. A., Zavodovskaya M., Lobo M., Campbell M., Kerner J. and Goldfine I. D. Nordihydroguaiaretic Acid (NDGA) Inhibits the IGF-1 and c-erbB2/HER2/neu Receptors and Suppresses Growth in Breast Cancer Cells. *Breast Cancer Research and Treatment* **Vol. 94**, pp. 37-46 (2005)
- Yoxall V., Kentish P., Coldham N., Kuhnert N., Sauer M. J. and Ioannides C. Modulation of hepatic cytochromes P450 and phase II enzymes by dietary doses of sulforaphane in rats: Implications for its chemopreventive activity. *International Journal of Cancer* **Vol. 117**, pp. 356-62 (2005)
- Yoysungnoen-Chintana P., Bhattarakosol P. and Patumraj S. Antitumor and Antiangiogenic Activities of Curcumin in Cervical Cancer Xenografts in Nude Mice. *BioMed Research International* **Vol. 2014**, pp. 1-12 (2014)
- Yu B., Changsheng Y., Wenjun Z., Ben L., Hai Q., Jing M., Guangwei X., Shuhua W., Fang L., Aschner M. and Rongzhu L. Differential protection of pre- versus post-treatment with

- curcumin, Trolox, and N-acetylcysteine against acrylonitrile-induced cytotoxicity in primary rat astrocytes. *NeuroToxicology* **Vol. 51**, pp. 58-66 (2015)
- Yu C.-P., Shia C.-S., Tsai S.-Y. and Hou Y.-C. Pharmacokinetics and Relative Bioavailability of Flavonoids between Two Dosage Forms of Gegen-Qinlian-Tang in Rats. *Evidence-Based Complementary and Alternative Medicine* **Vol. 2012**, pp. 1-8 (2012)
- Yu J. A., Li H., Meng X., Fullerton D. A., Nemenoff R. A., Mitchell J. D. and Weyant M. J. Group IIa secretory phospholipase expression correlates with group IIa secretory phospholipase inhibition-mediated cell death in K-ras mutant lung cancer cells. *The Journal of Thoracic and Cardiovascular Surgery* **Vol. 144**, pp. 1479-85 (2012)
- Yusufi M., Banerjee S., Mohammad M., Khatal S., Venkateswara Swamy K., Khan E. M., Aboukameel A., Sarkar F. H. and Padhye S. Synthesis, characterization and anti-tumor activity of novel thymoquinone analogs against pancreatic cancer. *Bioorganic & Medicinal Chemistry Letters* **Vol. 23**, pp. 3101-04 (2013)
- Zafra-Stone S., Yasmin T., Bagchi M., Chatterjee A., Vinson J. A. and Bagchi D. Berry anthocyanins as novel antioxidants in human health and disease prevention. *Molecular Nutrition & Food Research* **Vol. 51**, pp. 675-83 (2007)
- Zanger U. M. and Schwab M. Cytochrome P450 enzymes in drug metabolism: Regulation of gene expression, enzyme activities, and impact of genetic variation. *Pharmacology & Therapeutics* **Vol. 138**, pp. 103-41 (2013)
- Zha S., Yegnasubramanian V., Nelson W. G., Isaacs W. B. and De Marzo A. M. Cyclooxygenases in cancer: progress and perspective. *Cancer Letters* **Vol. 215**, pp. 1-20 (2004)
- Zhang B. Effect of 5-LOX/COX-2 common inhibitor DHDMBF30 on pancreatic cancer cell Capan2. *World Journal of Gastroenterology* **Vol. 14**, pp. 2494 (2008)
- Zhang H., Li X., Ding J., Xu H., Dai X., Hou Z., Zhang K., Sun K. and Sun W. Delivery of ursolic acid (UA) in polymeric nanoparticles effectively promotes the apoptosis of gastric cancer cells through enhanced inhibition of cyclooxygenase 2 (COX-2). *International Journal of Pharmaceutics* **Vol. 441**, pp. 261-68 (2013)
- Zhang Z., Chen N., Liu J. B., Wu J. B., Zhang J., Zhang Y. and Jiang X. Protective effect of resveratrol against acute lung injury induced by lipopolysaccharide via inhibiting the myd88-dependent Toll-like receptor 4 signaling pathway. *Molecular Medicine Reports* (2014)
- Zhang, B.; Wang, C.L.; Zhao, W.H.; Lv, M.; Wang, C.Y.; Zhong, W.X.; Zhou, W.Y.; Yu, W.S.; Zhang, Y.; Li, S. Effect of 5- LOX/COX-2 common inhibitor DHDMBF30 on pancreatic cancer cell Capan2. *World J. Gastroenterol.*, **2008**, *14*, 2494-2500.
- Zhao L., Sha Y.-Y., Zhao Q., Yao J., Zhu B.-B., Lu Z.-J., You Q.-D. and Guo Q.-L. Enhanced 5-fluorouracil cytotoxicity in high COX-2 expressing hepatocellular carcinoma cells by wogonin via the PI3K/Akt pathway. *Biochemistry and Cell Biology* **Vol. 91**, pp. 221-29 (2013)

Zhao M., Tang S.-N., Marsh J. L., Shankar S. and Srivastava R. K. Ellagic acid inhibits human pancreatic cancer growth in Balb c nude mice. *Cancer Letters* **Vol. 337**, pp. 210-17 (2013)

Zheng Q.-y., Li P.-p., Jin F.-s., Yao C., Zhang G.-h., Zang T. and Ai X. Ursolic acid induces ER stress response to activate ASK1–JNK signaling and induce apoptosis in human bladder cancer T24 cells. *Cellular Signalling* **Vol. 25**, pp. 206-13 (2013)

Zhong L.-M., Zong Y., Sun L., Guo J.-Z., Zhang W., He Y., Song R., Wang W.-M., Xiao C.-J. and Lu D. Resveratrol Inhibits Inflammatory Responses via the Mammalian Target of Rapamycin Signaling Pathway in Cultured LPS-Stimulated Microglial Cells. *PLoS ONE* **Vol. 7**, pp. e32195 (2012)

Zhou G. X., Ding X. L., Huang J. F., Zhang H. and Wu S. B. Suppression of 5-lipoxygenase gene is involved in triptolide-induced apoptosis in pancreatic tumor cell lines. *Biochimica et Biophysica Acta (BBA) - General Subjects* **Vol. 1770**, pp. 1021-27 (2007)

Zhou L., Qi L., Jiang L., Zhou P., Ma J., Xu X. and Li P. Antitumor Activity of Gemcitabine Can Be Potentiated in Pancreatic Cancer through Modulation of TLR4/NF- κ B signaling by 6-Shogaol. *The AAPS Journal* **Vol. 16**, pp. 246-57 (2014)

Zikri N. N., Riedl K. M., Wang L.-S., Lechner J., Schwartz S. J. and Stoner G. D. Black Raspberry Components Inhibit Proliferation, Induce Apoptosis, and Modulate Gene Expression in Rat Esophageal Epithelial Cells. *Nutrition and Cancer* **Vol. 61**, pp. 816-26 (2009)

Zong Y., Sun L., Liu B., Deng Y.-S., Zhan D., Chen Y.-L., He Y., Liu J., Zhang Z.-J., Sun J. and Lu D. Resveratrol Inhibits LPS-Induced MAPKs Activation via Activation of the Phosphatidylinositol 3-Kinase Pathway in Murine RAW 264.7 Macrophage Cells. *PLoS ONE* **Vol. 7**, pp. e44107 (2012)

Zykova T. A., Zhu F., Zhai X., Ma W.-Y., Ermakova S. P., Lee K. W., Bode A. M. and Dong Z. Resveratrol directly targets COX-2 to inhibit carcinogenesis. *Mol. Carcinog.* **Vol. 47**, pp. 797-805 (2008)