

## BIOGRAPHICAL SKETCH

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|--|---|---------|----------------|
| NAME<br>Dimas, Konstantinos  | POSITION TITLE<br>Lecturer  |         |                |
| eRA COMMONS USER NAME  | Dept of Pharmacology<br>Faculty of Medicine, University of Thessaly, Greece |         |                |
| EDUCATION/TRAINING   |   |         |                |
| INSTITUTION AND LOCATION   | DEGREE<br>(if applicable)   | YEAR(s) | FIELD OF STUDY |
| Dept of Biology, Faculty of Sciences, National Kapodistrian University of Athens, Athens, Greece | Ptision (Diploma)   | 1991    | Biology        |
| School of Medicine, University of Ioannina, Ioannina, Greece                                     | D. Phil.  | 1999    | Pharmacology   |

### A. Positions and Honors.

#### Positions

- Present Position: Lecturer, Department of Pharmacology, Faculty of Medicine, University of Thessaly
- 2003-2011: Principal Investigator, Division of Pharmacology-Pharmacotechnology, Foundation of Biomedical Research, Academy of Athens (IIBEAA), Greece
- 2007-2011: Scientific Collaborator, Dept of Pharmacology, School of Medicine, University of Thessaly
- 2001-2002: WHO Post-doctoral fellow, Unit of Molecular Carcinogenesis, IARC, Lyon, France
- 2000-2001: Post doctoral fellow, Department of Cell Biology and Biochemistry, Laboratory of Neurodevelopment, Pasteur Institute of Athens, Athens, Greece.
- 1999-2004: Associate Investigator, International Institute of Anticancer Research-IIAR, Greece.
- 1995-1996: Department of Biochemistry, G. PAPANIKOLAOU Centre of Experimental Oncology, Athens, Greece.
- 1994-1999: Department of Pharmacology, School of Medicine, University of Ioannina, Ioannina, Greece.
- 1991-1994: Department of Immunology/Histocompatibility, Hellenic Anticancer Institute, Athens, Greece.

#### Honors-Awards

- 2001-2002: WHO Post-doctoral fellow, Unit of Molecular Carcinogenesis, IARC, Lyon, France.
- 2000-2001 Post-doctoral fellow, Department of Cell Biology and Biochemistry, Lab of Neurodevelopment, Pasteur Institute of Athens

#### Teaching

1. Course: Pharmacology I and II, University of Thessaly, School of Medicine (Pre-graduate)
2. Course: Molecular Pharmacology, University of Thessaly, School of Medicine. (Post-graduate)
3. Course: Pharmacology University of Thessaly, School of Medicine. (Post-graduate)

### B. Abstracts in Conferences (in chronological order)

- 1) UlukayaE, Ari F, **Dimas K**, Ikitimur EI, Guney E, Sakellaridis N, Yilmaz VT. Promising Anti-cancer Activity of a Novel Palladium (II) Complex on Human Breast Cancer Cells in Vitro and in Vivo. European Multidisciplinary Cancer Congress on Integrating Basic and Translational Science, Surgery, Radiotherapy, Medical oncology, Stockholm, Sweden, Sep 23-27, 2011

- 2) Dimopoulou Th, Leondaritis G, Rassidakis GZ, Yilmaz VT, Ulukaya E, Guney E, Ari F, Sakellaridis N, **Dimas K**. Establishment and preliminary pharmacological characterization of a primary anaplastic thyroid cancer xenograft model. 61st EEMBB meeting, Alexandroupolis, Greece 2010.
- 3) Katsori AM, **Dimas K**, Trangas T, Vanden Berghe W, Palagani A, Bougarne N, Haegeman G, Hadjipavlou-Litina D. Anticancer, anti-inflammatory, antioxidant and NF- $\kappa$ B inhibition studies of novel 3,5-bis(arylidene)-4-piperidone derivatives. 61st EEMBB meeting, Alexandroupolis, Greece 2010.
- 4) Katsori AM, **Dimas K**., Vanden Berghe W., Trangas T., Bougarne N., Haegeman G., Hadjipavlou-Litina D. "Novel heterocyclic 4-piperidone derivatives as possible NF- $\kappa$ B inhibitors with anti-inflammatory and/or anti-cancer activity". 14th Hellenic Symposium on Medicinal Chemistry, April 23-25, 2010, Thessaloniki, Greece
- 5) Tsimplouli C, Mahaira L, Rassidakis G, **Dimas K**. Anticancer activity of a novel kaempferol glucoside, Tac, is mediated by a mechanism involving RSK inhibition. 21st EACR Conference, Oslo, Finland, 2010.
- 6) Tsimplouli C, Mahaira L, Rassidakis G, **Dimas K**. Induction of apoptosis and tumor growth delay to a human colon cancer xenograft via a mechanism involving ribosomal p90 s6 kinase (rsk). 1st International Conference on Molecular Cancer Research, Athens, Greece, 2009.
- 7) Lagadinou ED, Kokkinou D, Themeli M, **Dimas K**, Spyridonidis A and Zoumbos NC. A low redox state characterizes a distinct subset of blasts with progenitor/"Stem-Like" properties in Acute Myeloid Leukemia. 38th Annual Scientific meeting of ISEH-Society-for-Hematology-and-Stem-Cells, Athens, Greece, 2009,
- 8) Pantelidou M, **Dimas K**, Georgopoulos A, Hatziantoniou S, Demetzos C. Preparation characterization and in vitro evaluation of liposome-incorporated curcumin on colorectal cancer cell lines International Liposome Society Annual Meeting, Liposome Advances: Progress in Drug and Vaccine Delivery, London, UK, 2007.
- 9) Matsingou C, **Dimas K**, Demetzos C. Incorporation of a cytotoxic labdane type diterpene into dppc and epc liposomes, physicochemical characterization and in vitro pharmacological evaluation of the final preparation. International Liposome Society Annual Meeting, Liposome Advances: Progress in Drug and Vaccine Delivery, London, UK, 2005.
- 10) **Dimas K**, Hatziantoniou S, Tseleni S, Demetzos C et al. Liposomal sclareol induces tumor suppressor in colon human cancer (hct116) xenografts. International Liposome Society Annual Meeting, Liposome Advances: Progress in Drug and Vaccine Delivery, London, UK, 2005
- 11) Matsingou C, **Dimas K**, Demetzos C. Development of a liposomal formulation of a cytotoxic labdane type diterpene and in vitro evaluation. Cell Molecular Biol. Letters, Vol. 10 Supplement, 2005.
- 12) Paradissi A, Hatziantoniou S, Georgopoulos A, Psarra AM, **Dimas K**, Demetzos C. Comparative study of the uptake of free and liposomal sclareol on human colon, lung and breast cancer cell lines. A. 2nd EUFERPS Conference on Optimising Drug Delivery and Formulation, Versailles 2005, France. B. International Liposome Society Annual Meeting, Liposome Advances: Progress in Drug and Vaccine Delivery, London, UK, 2005.
- 13) Papadaki M, Khan H, Sotiriadou N, Hatziantoniou S, ALEVIZOPOULOS K, Pantazis P, Demetzos C, **Dimas K**. Sclareol induces cell cycle arrest and apoptosis in human colon cancer cells via a p53 independent pathway. 13o EuroConference in Apoptosis, Budapest, Hungary, 2005.

- 14) Saroglou V, Karioti A, Demetzos C, **Dimas K**, Skaltsa H. Sesquiterpene lactones from centaureae spinosa and their antibacterial activity and cytostatic/cytotoxic activity against human cancer cell lines. 12th Greek Pharmaceutical Conference, Athens, 2005.
- 15) Papagiannaros A, Demetzos C, **Dimas K**, Papaioannou G. In vitro cytotoxic activity of doxorubicin-pamam dendrimer complex incorporated into hepc liposomes against cancer cell lines. 7th International Conference of Anticancer Research, Corfu, Greece, 2004.
- 16) Matsingou X, Hatziantoniou S, Georgopoulos A, **Dimas K**, Terzis T, Mavromoustakos. Demetzos C. Encapsulation of labdane type diterpenes into liposomes: physicochemical properties and biological activity against human cancer cell lines. 7th International Conference of Anticancer Research, Corfu, Greece, 2004.
- 17) **Dimas K**, Hatziantoniou S, Georgopoulos A, Pantazis P, Demetzos C. Treatment of human colon cancer xenografts, grown in nod/scid mice, with liposome-encapsulated sclareol. a potential use of labdanes as novel anticancer agents. 7th International Conference of Anticancer Research, Corfu, Greece, 2004.
- 18) Papagiannaros A, Demetzos C, **Dimas K**, Hatziantoniou S, Papaioannou G. Th. Encapsulation of doxorubicin in hexadecylphosphocholine liposomes. Evaluation of their cytostatic/ cytotoxic activity in vitro. 6th international conference "liposome advances" London, UK, 2003.
- 19) Malisiova F, Hatziantoniou S, Demetzos C, **Dimas K**. Lipid analysis of greek almond oil [prunus dulcis (mill.) d.a.webb (syn. prunus amygdalus)]. 2nd International Symposium on Medicinal Plants, Chalkidiki, Greece, 2002.
- 20) Koukoulitsa E, Karioti A, **Dimas K**, Demetzos C, Skaltsa H. Sesquiterpene lactones from the aerial parts of centaurea zuccariana and their cytotoxic/cytostatic activity against human cell lines in vitro. 49th Annual Meeting of the Society for Medicinal Plant Res., Erlangen, Germany, 2001.
- 21) Maswadeh H, Hatziantoniou S, Demetzos C, **Dimas K**, Georgopoulos A, Rallis M. Encapsulation of vinblastine into new liposome formulations prepared from triticum (wheat germ) lipids and its activity against human leukemic cell lines. 10th Greek Pharmaceutical Conference, Athens 2001.
- 22) Maswadeh H, Demetzos C, **Dimas K**, Hatziantoniou S, Georgopoulos A, Rallis P. Dallas M. Accumulation of vinblastine into transferosomes and liposomes in response to a transmembrane ammonium sulfate gradient and their cytotoxic/ cytostatic activity in vitro . 10th Greek Pharmaceutical Conference, Athens 2001.
- 23) **Dimas K**, Sphiniadakis I, Georgopoulos A, Deligannis P and Demetzos C. Comparative study of the cytotoxic effect of Caelyx and free Doxorubicin against human leukemic cell lines. 1st International Jordanian-Greek Medical Congress, Jordan, Amman, 2000.
- 24) Patsavoudi E, Yfanti E, Meintanis S, **Dimas K**, Matsas R and Margaritis L. Changes in cytoskeletal organization of migrating Schwann cells in the presence of monoclonal antibody to the 4C5 antigen. 30th Annual Meeting, Society for Neurosciences, New Orleans, USA, 2000.
- 25) Maswadeh H, Hatziantoniou S, Demetzos C, **Dimas K**, Rallis M, Dallas P. Encapsulation of vinblastine into liposomes prepared from natural sources. GA/ISE-Congress of Planta Medica , Zurich, Switzerland, 2000.
- 26) Yfanti E, **Dimas K**, Meintanis S, Matsas R, Margaritis L and Patsavoudi E. The 4C5 antigen is associated with actin cytoskeletal organization of migrating Schwann cells in vitro. 15th Annual Conference of HSN, Patra 2000.
- 27) **Dimas K**, Mitaku S, Demetzos C, Skaltsounis AL, Perez S, Kokkinopoulos D. Cytotoxic activity of flavonoids from the buds of platanus orientalis. Balkan congress of oncology, Athens, Greece, 1996.

- 28) **Dimas K**, Mitakou S, Demetzos K, Skaltsounis L, Perez S, Kokkinopoulos D. Cytotoxic activity of diterpenes from the resin ladano of *Cistus creticus*. 2nd Xenobiotic metabolism and toxicity workshop of Balkan countries, Ioannina, Greece, 1995.
- 29) **Dimas C**, Perez S, Kokkinopoulos D. Preparation of a novel enzyme immunoassay for the measurement of high values of human chorionic gonadotrophin in human serum. 3d International Conference of the Mediterranean Society of tumor marker oncology, Athens, Greece, 1994.
- 30) Sotiriadou R, Kokkinopoulos D, Missitzis J, Ardavanis A, Hatzidou S, **Dimas K**, Perez S. DIK17 antigen: A possible early marker of cancer development. 3d International Conference of the Mediterranean Society of tumor marker oncology, Athens, Greece, 1994.
- 31) Sotiriadou R, Missitzis J, Perez S, **Dimas K**, Papamichail M, Chryssochou MA, Kokkinopoulos D. Expression of DIK17 antigen on the peripheral blood lymphocytes of patients with breast cancer. HSBBCR International Congress, Corfu, Greece, 1993.
- 32) Kokkinopoulos D, **Dimas K**, Perez S, Papamichail M. Development of an ELISA for the measurement of human IgE. 1st Greek Conference of Clinical Allergiology, Athens 1992.
- 33) **Dimas K**, Kokkinopoulos D, Perez S, Papamichail M. Production of monoclonal Abs against hCG and their use for the development of a diagnostic test. 15th Greek Conference of Microbiology, Thessaloniki 1992.
- 34) Kokkinopoulos D, **Dimas K**, Perez S, Papamichail M. Production of monoclonal Abs against hLH and their use for the development of a diagnostic test. 15th Greek Conference of Microbiology, Thessaloniki 1992.
- 35) **Dimas K**, Kokkinopoulos D, Perez S, Papamichail M. Effects of hcg on immunological parameters of normal human PBML. 19th Annual Greek Conference of Medicine, Athens 1993.
- 36) Kokkinopoulos D, Hagnefeld B, **Dimas K**, Vidali E, Tsamoura A, Perez S. Development and qualitative control of an ELISA for human ferritin. 6th Greek Conference of Hematology, Kavala 1993.
- 37) Perez S, **Dimas K**, Demetzos K, Mitakou S, Kokkinopoulos D. Effects of flavonoids on leukemic cell lines, normal resting and PHA-activated PBML 6TH Greek Conference of Hematology, Kavala 1993.

### C. Peer-reviewed publications (in chronological order).

- [1] Tsirmoula S, **Dimas K**, Hatzia Apostolou M, Lamprou M, Ravazoula P, Papadimitriou, E. Implication of pleiotrophin in human PC3 prostate cancer cell growth *in vivo*. *Cancer Sci.* 2012 *in press*
- [2] Almeida C, Hemberger Y, Schmitt SM, Bouhired S, Natesan L, Kehraus S, **Dimas K**, Gütschow M, Bringmann G, König GM. Marilines A-C: Novel Phthalimidines from the Sponge-Derived Fungus *Stachylidium* sp Chemistry. 2012 *in press*
- [3] Riganas S, Papanastasiou I, Foscolos GB, Tsotinis A, **Dimas K**, Kourafalos VN, Eleutheriades A, Moutsos VI, Khan H, Margarita P, Georgakopoulou S, Zaniou A, Theodoropoulou M, Mantelas A, Pondiki S, Vamvakides A. New Adamantane Derivatives with Sigma Affinity and Antiproliferative Activity. *Med Chem.* 2012 *in press*
- [4] Riganas S, Papanastasiou I, Foscolos GB, Tsotinis A, Bourguignon JJ, Serin G, Mirjolet JF, **Dimas K**, Kourafalos VN, Eleutheriades A, Moutsos VI, Khan H, Georgakopoulou S, Zaniou A, Prassa M, Theodoropoulou M, Pondiki S,

- Vamvakides A. Synthesis,  $\sigma_1$ ,  $\sigma_2$ -receptors binding affinity and antiproliferative action of new C1-substituted adamantanes. *Bioorg Med Chem*. 2012 *in press*
- [5] Thanasopoulou A, Stravopodis DJ, **Dimas KS**, Schwaller J, Anastasiadou E. Loss of CCDC6 affects cell cycle through impaired intra-S-phase checkpoint control. *PLoS One*. 2012;7(2):e31007
- [6] Kouvaraki MA, Liakou C, Paraschi A, **Dimas K**, Patsouris E, Tseleni-Balafouta S, Rassidakis GZ, Moraitis D. Activation of mTOR signaling in medullary and aggressive papillary thyroid carcinomas. *Surgery*. 2011 Dec;150(6):1258-65
- [7] Kontogiannopoulos KN, Assimopoulou AN, **Dimas K**, Papageorgiou VP. Shikonin-loaded liposomes as a new drug delivery system: physicochemical characterization and *in vitro* cytotoxicity. *Eur. J. Lipid Sci. Technol*. 2011, 113, 1113–1123
- [8] Ulukaya E, Ari F, **Dimas K**, Ikitimur EI, Guney E, Yilmaz VT. Anti-cancer activity of a novel palladium (II) complex on human breast cancer cells in vitro and in vivo. *Eur J Med Chem*. 2011 Oct;46(10):4957-63.
- [9] Mahaira LG, Tsimplouli C Sakellaridis N, Alevizopoulos K, Demetzos C, Han Z, Pantazis P, **Dimas K**. The labdane diterpene sclareol (labd-14-ene-8, 13-diol) induces apoptosis in human 3 tumor cell lines and suppression of tumor growth in vivo via a p53-independent mechanism of action. *Eur J Pharmacol*. 2011 Sep;666(1-3):173-82
- [10] Ulukaya E, Ari F, **Dimas K**, Sarimahmut M, Guney E, Sakellaridis N, Yilmaz VT. Cell death-inducing effect of novel palladium(II) and platinum(II) complexes on non-small cell lung cancer cells in vitro. *J Cancer Res Clin Oncol*. 2011 Oct;137(10):1425-34.
- [11] Tsimplouli C, Demetzos C, Hadzopoulou-Cladaras M, Pantazis P, **Dimas K**. In vitro activity of dietary flavonol congeners against human cancer cell lines. *Eur J Nutr*. 2011 May 20.
- [12] Gardikis K, Fessas D, Signorelli M, **Dimas K**, Tsimplouli C, Ionov M, Demetzos C. A new chimeric advanced Drug Delivery nano System (chi-aDDnS) composed of PAMAM G 3.5 dendrimer and liposomes as Doxorubicin's carrier. *In vitro* pharmacological studies. *Journal of Nanoscience and Nanotechnology* 2011, May;11(5):3764-72.
- [13] Katsori AM, **Dimas K**, Chatzopoulou M, , Kontogiorgis C, Patsilnakos A, Trangas T, Hadjipavlou-Litina D Curcumin analogues as possible anti-proliferative & anti-inflammatory agents. *Eur J Med Chem*. 2011 Jul;46(7): 2722-35
- [14] Anagnostopoulos AK, **Dimas KS**, Papathanassiou C, Braoudaki M, Anastasiadou E, Vougas K, Karamolegou K, Kontos H, Prodromou N, Tzortzatos-Stathopoulou F, Tsangaris GT. Proteomics studies of childhood pilocytic astrocytoma. *J Proteome Res*. 2011 May 6;10(5):2555-65.
- [15] Pandelidou M, **Dimas K**, Georgopoulos A, Hatziantoniou and Demetzos C. Preparation and Characterization of Lyophilised EGG PC Liposomes incorporating Curcumin and Evaluation of its Activity against Colorectal Cancer Cell Lines. *J Nanosci Nanotechnol*. 2011 Feb;11(2):1259-66.
- [16] Gardikis K, Tsimplouli C, **Dimas K**, Micha-Screttas M, Demetzos C. New chimeric advanced Drug Delivery nano Systems (chi-aDDnSs) as doxorubicin carriers. *Int J Pharm*. 2010 Dec 15;402(1-2):231-7.
- [17] Gardikis K, **Dimas K**, Georgopoulos A, Kaditi E, Pispas S and Demetzos C.  $\beta$ -lactam functionalized poly(isoprene-b-ethylene oxide) amphiphilic block copolymer micelles as a new nanocarrier system for curcumin. *Current Nanoscience*, 2010 Jun; 6(3): 277-284.
- [18] Saroglou V, Karioti A, Rancic A, **Dimas K**, Koukoulitsa C, Zervou M, Skaltsa H. Sesquiterpene lactones from *Anthemis melanolepis* and their antibacterial and cytotoxic activities. Prediction of their pharmacokinetic profile. *J Nat Prod*. 2010 Feb 26;73(2):242-6.

- [19] Gu S, Papadopoulou N, Gehring EM, Nasir O, **Dimas K**, Bhavsar SK, Föller M, Alevizopoulos K, Lang F, Stournaras C. Functional membrane androgen receptors in colon tumors trigger pro-apoptotic responses in vitro and reduce drastically tumor incidence in vivo. *Mol Cancer*. 2009 Dec; 1;8:114
- [20] Han Z, **Dimas K**, Tian X, Wang Y, Hemmi H, Yamada K, Kato N, Pantazis P, Ramanujam RJ, Anant S, Wyche JH, Houchen CW. 14-3-3 sigma-dependent resistance to cisplatin. *Anticancer Res*. 2009 Jun;29(6):2009-14.
- [21] **Dimas K**, Hatziantoniou S, Wyche JH, Pantazis P. A mastic gum extract induces suppression of growth of human colorectal tumor xenografts in immunodeficient mice. *In Vivo*. 2009 Jan-Feb;23(1):63-8.
- [22] Lagadinou ED, Ziros P, Tsopra O, **Dimas K**, Thanopoulou E, Kouraklis-Symeonidis A, Karakantza M, Pantazis P, Zoumbos NC. Absence of JNK activation is a predictor of anthracycline resistance in AML. *Leukemia* 2008 Oct;22(10):1899-908.
- [23] **Dimas K**, Tsimplouli C, Anagnostopoulos A, Mahaira L, Iliopoulou E, Perez S, Vougas K and Tsangaris GT. The Proteome Profile of Two Cell Lines and their Xenografts Isolated from a Patient with Clear Cell Sarcoma (Soft Tissue Melanoma). *Cancer Genomics & Proteomics* 2008, 5: 175-238
- [24] **Dimas K**, Hatziantoniou S, Tseleni S, Khan H, Georgopoulos A, Alevizopoulos K, Wyche JH, Pantazis P, Demetzos C. Sclareol induces apoptosis in human HCT116 colon cancer cells in vitro and suppression of HCT116 tumor growth in immunodeficient mice. *Apoptosis*. 2007 Apr;12(4):685-94.
- [25] Balan KV, Prince J, Han Z, **Dimas K**, Cladaras M, Wyche JH, Sitaras NM, Pantazis P. Antiproliferative activity and induction of apoptosis in human colon cancer cells treated in vitro with constituents of a product derived from *Pistacia lentiscus* L. var. chia. *Phytomedicine*. 2007 Apr;14(4):263-72.
- [26] Tamvakopoulos C, **Dimas K**, Sofianos ZD, Hatziantoniou S, Han Z, Liu ZL, Wyche JH, Pantazis P. Metabolism and anticancer activity of the curcumin analogue, dimethoxycurcumin. *Clin Cancer Res*. 2007 Feb 15;13(4):1269-77.
- [27] Paradissis A, Hatziantoniou S, Georgopoulos A, Psarra AM, **Dimas K**, Demetzos C. Liposomes modify the subcellular distribution of sclareol uptake by HCT-116 cancer cell lines. *Biomed Pharmacother*. 2007 Feb-Apr;61(2-3):120-4.
- [28] Matsingou C, **Dimas K**, Demetzos C. Design and development of liposomes incorporating a bioactive labdane-type diterpene. In vitro growth inhibiting and cytotoxic activity against human cancer cell lines. *Biomed Pharmacother*. 2006 May;60(4):191-9.
- [29] **Dimas K**, Papadaki M, Tsimplouli C, Hatziantoniou S, Alevizopoulos K, Pantazis P, Demetzos C. Labd-14-ene-8,13-diol (sclareol) induces cell cycle arrest and apoptosis in human breast cancer cells and enhances the activity of anticancer drugs. *Biomed Pharmacother*. 2006 Apr;60(3):127-33.
- [30] Papagiannaros A, Hatziantoniou S, **Dimas K**, Papaioannou GT, Demetzos C. A liposomal formulation of doxorubicin, composed of hexadecylphosphocholine (HePC): physicochemical characterization and cytotoxic activity against human cancer cell lines. *Biomed Pharmacother*. 2006 Jan;60(1):36-42.
- [31] Balan KV, Sitaras NM, **Dimas K**, Han Z, Wyche JH, Pantazis P. Differential susceptibility to etoposide in clones derived from a human ovarian cancer cell line. *Chemotherapy*. 2006;52(3):137-46.
- [32] Papagiannaros A, Hatziantoniou S, Lelong-Rebel IH, Papaioannou GT, **Dimas K**, Demetzos C. Antitumor activity of doxorubicin encapsulated in hexadecylphosphocholine (HePC) liposomes against human xenografts on Scid mice. *In Vivo*. 2006 Jan-Feb;20(1):129-35.

- [33] Hatziantoniou S, **Dimas K**, Georgopoulos A, Sotiriadou N, Demetzos C. Cytotoxic and antitumor activity of liposome-incorporated sclareol against cancer cell lines and human colon cancer xenografts. *Pharmacol Res.* 2006 Jan;53(1):80-7.
- [34] Matsingou C, Hatziantoniou S, Georgopoulos A, **Dimas K**, Terzis A, Demetzos C. Labdane-type diterpenes: thermal effects on phospholipid bilayers, incorporation into liposomes and biological activity. *Chem Phys Lipids.* 2005 Dec;138(1-2):1-11.
- [35] Papagiannaros A, **Dimas K**, Papaioannou GT, Demetzos C. Doxorubicin-PAMAM dendrimer complex attached to liposomes: cytotoxic studies against human cancer cell lines. *Int J Pharm.* 2005 Sep 30;302(1-2):29-38.
- [36] Saroglou V, Karioti A, Demetzos C, **Dimas K**, Skaltsa H. Sesquiterpene lactones from *Centaurea spinosa* and their antibacterial and cytotoxic activities. *J Nat Prod.* 2005 Sep;68(9):1404-7.
- [37] Balan KV, Demetzos C, Prince J, **Dimas K**, Cladaras M, Han Z, Wyche JH, Pantazis P. Induction of apoptosis in human colon cancer HCT116 cells treated with an extract of the plant product, Chios mastic gum. *In Vivo.* 2005 Jan-Feb;19(1):93-102.
- [38] Malisiova F, Hatziantoniou S, Kletsas D, **Dimas K**, Demetzos C. Liposomal formulations from phospholipids of Greek almond oil. Properties and biological activity. *Z. Naturforsch, Bioscience* 2004, 59:330-334
- [39] Goniotaki M, Hatziantoniou S, **Dimas K**, Wagner M, Demetzos C. Encapsulation of naturally occurring flavonoids into liposomes: physicochemical properties and biological activity against human cancer cell lines. *J Pharm Pharmacol.* 2004 Oct;56(10):1217-24.
- [40] Pantazis P, **Dimas K**, Han Z, Balan K, Wyche JH. The anti-cancer and anti-viral drug 9-nitrocamptothecin: molecular, cellular and clinical studies. *J. Qual. Life Res.* 2003, 1:241-256.
- [41] Pluquet O, North S, Bhoumik A, **Dimas K**, Ronai Z, Hainaut P. The cytoprotective aminothiol WR1065 activates p53 through a non-genotoxic signaling pathway involving c-Jun N-terminal kinase. *J Biol Chem.* 2003 Apr 4;278(14):11879-87.
- [42] Koukoulitsa E, Skaltsa H, Karioti A, Demetzos C, **Dimas K**. Bioactive sesquiterpene lactones from *Centaurea* species and their cytotoxic/cytostatic activity against human cell lines in vitro. *Planta Med.* 2002 Jul;68(7):649-52.
- [43] Kolocouris A, **Dimas K**, Pannecouque C, Witvrouw M, Foscolos GB, Stamatiou G, Fytas G, Zoidis G, Kolocouris N, Andrei G, Snoeck R, De Clercq E. New 2-(1-adamantylcarbonyl)pyridine and 1-acetyladamantane thiosemicarbazones-thiocarbonhydrazones: cell growth inhibitory, antiviral and antimicrobial activity evaluation. *Bioorg Med Chem Lett.* 2002 Mar 11;12(5):723-7.
- [44] Maswadeh H, Demetzos C, **Dimas K**, Loukas YL, Georgopoulos A, Mavromoustakos T, Papaioannou GT. In-vitro cytotoxic/cytostatic activity of anionic liposomes containing vinblastine against leukaemic human cell lines. *J Pharm Pharmacol.* 2002 Feb;54(2):189-96.
- [45] Demetzos C, **Dimas K**, Hatziantoniou S, Anastasaki T, Angelopoulou D. Cytotoxic and anti-inflammatory activity of labdane and cis-clerodane type diterpenes. *Planta Med.* 2001 Oct;67(7):614-8.
- [46] Maswadeh H, Demetzos C, **Dimas K**, Hatziantoniou S, Georgopoulos A, Rallis M, Dallas P, Papaioannou G. Accumulation of vinblastine into transfersomes and liposomes in response to a transmembrane ammonium sulfate gradient and their cytotoxic/cytostatic activity in vitro. *Anticancer Res.* 2001 Jul-Aug;21(4A):2577-83.
- [47] **Dimas K**, Demetzos C, Vaos V, Ioannidis P, Trangas T. Labdane type diterpenes down-regulate the expression of c-Myc protein, but not of Bcl-2, in human leukemia T-cells undergoing apoptosis. *Leuk Res.* 2001 Jun;25(6):449-54.

- [48] Angelopoulou D, Demetzos C, **Dimas C**, Perdetzoglou D, Loukis A. Essential oils and hexane extracts from leaves and fruits of *Cistus monspeliensis*. Cytotoxic activity of ent-13-epi-manoyl oxide and its isomers. *Planta Med.* 2001 Mar;67(2):168-71.
- [49] Maswadeh H, Hatziantoniou S, Demetzos C, **Dimas K**, Georgopoulos A, Rallis M. Encapsulation of vinblastine into new liposome formulations prepared from triticum (wheat germ) lipids and its activity against human leukemic cell lines. *Anticancer Res.* 2000 Nov-Dec;20(6B):4385-90.
- [50] **Dimas K**, Demetzos C, Angelopoulou D, Kolokouris A, Mavromoustakos T. Biological activity of myricetin and its derivatives against human leukemic cell lines in vitro. *Pharmacol Res.* 2000 Nov;42(5):475-8.
- [51] **Dimas K**, Demetzos C, Mitaku S, Marselos M, Tzavaras T, Kokkinopoulos D. Cytotoxic activity of kaempferol glycosides against human leukaemic cell lines in vitro. *Pharmacol Res.* 2000 Jan;41(1):83-86.
- [52] **Dimas K**, Demetzos C, Vaos B, Marselos M, Kokkinopoulos D. Cytotoxic and antiproliferative effects of heptaacetyltiliroside on human leukemic cell lines. *Leuk Res.* 1999 Nov;23(11):1021-33.
- [53] **Dimas K**, Demetzos C, Mitaku S, Vaos B, Marselos M, Tzavaras T, Kokkinopoulos D. Cytotoxic activity and antiproliferative effects of a new semi-synthetic derivative of Ent-3 beta-hydroxy-13-epi-manoyl oxide on human leukemic cell lines. *Anticancer Res.* 1999 Sep-Oct;19(5B):4065-72.
- [54] Mitrocotsa D, Bosch S, Mitaku S, **Dimas C**, Skaltsounis AL, Harvala C, Briand G, Roussakis C. Cytotoxicity against human leukemic cell lines, and the activity on the expression of resistance genes of flavonoids from *Platanus orientalis*. *Anticancer Res.* 1999 May-Jun;19(3A):2085-8.
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#### D. Book Chapters

- [1] Dimas K, Tsimplouli C, Ramanujam R, Pantazis P, Sakellaridis N'A Tour to the Stars of the Immunodeficient Mice-Galaxy , Leon V. Berhardt (Ed), *Advances in Medicine and Biology.* Volume 57, Nova Science Publishers, NY, USA 2012
- [2] Tsimplouli C, Pantazis P, Alevizopoulos K, Ulukaya E, **Dimas K**. Patient-Derived Xenografts: Real-Time Modeling of Cancer, Leon V. Berhardt (Ed), *Advances in Medicine and Biology,* Volume 57, Nova Science Publishers, NY, USA, 2012
- [3] Leondaritis G, Koliou X, Johnson S, Li C, Florakis A, **Dimas K**, Sakellaridis N and Mangoura D. Interplay Between Protein Kinase C Isoforms Alpha and Epsilon, Neurofibromin, and the Ras/MAPK Pathway in Neuroblastoma Differentiation. *Neuroblastoma - Present and Future*, Hiroyuki Shimada (Ed.), InTech, Available from: <http://www.intechopen.com/books/neuroblastoma-present-and-future/interplay-between-protein-kinase-c-isoforms-alpha-and-epsilon-neurofibromin-and-the-ras-mapk-pathway>.



- [4] Pantazis P, **Dimas K**, Wyche JH, AnantS, Houchen CW, Panyam J, and Ramanujam RP. Preparation of siRNA-Encapsulated PLGA Nanoparticles for Sustained Release of siRNA and Evaluation of Encapsulation Efficiency. Mikhail Soloviev (ed.), Nanoparticles in Biology and Medicine: Methods and Protocols, Methods in Molecular Biology, vol. 906, Springer Science+Business Media, LLC 2012.
- [5] Paradissis A, Hatziantoniou S, Georgopoulos A, **Dimas K**, and Demetzos C. Uptake Studies of Free and Liposomal Sclareol by MCF-7 and H-460 Human Cancer Cell Lines. Nanomaterials and Nanosystems for Biomedical Applications; Editor M. Reza Mozafari, Massey University, New Zealand, 2007, Springer, the Netherlands.
- [6] Demetzos C, **Dimas K**. Labdane type diterpenes: chemistry and biological activity. *Series of Books 'Studies in Natural Product Chemistry'*; Editor Atta-ur- Rahman, University of Karachi, Karachi, Pakistan vol. 25, 2001 ELSEVIER Ltd.

#### D. Patents

- 1) **GR No 1003509**, Labdane diterpenes in liposomal form; *in vitro* studies in human leukaemia cell lines of the new liposomal products.
- 2) **US Patent Application 09/708.289**, granted 24 June 2003, "Pharmaceutical Formulations Comprising Labdane for the Treatment of Tumors or Leukemias".
- 3) **PCT application (No 990100387/8.11.2000/IPN: WO 01/34116A)**, "Liposomes composition containing at least one a) labd-13-ene-8a, 15-diol and/or derivatives b) labd-14-ene-8, 13-diol c) 3 $\beta$ -hydroxy-labd-14-ene-8, 13-epoxy and/or derivatives, or a plant extract containing them; pharmaceutical formulation for the treatment of tumors or leukemias".
- 4) **GR No 1004988**, Liposomal formulation comprising phospholipids, lipids and a labdane-type diterpene.

#### E. Editorial Board/Invited Peer Reviews

- Invited Peer Reviews for Analytical Chemistry Insights, Advances in Pharmacology, Apoptosis, Biochemical Pharmacology, Cancer Research, Carcinogenesis, International Journal of Cancer, Journal of Biological Chemistry, Journal of Pharmacology and Experimental Therapeutics, Environmental Toxicology, Journal of Microencapsulation, Anti-Cancer drugs, Journal of Food Biochemistry.

#### F. Scientific/organizing committees

- Dendrimers as Composites of Advanced Drug Delivery nano Systems (aDDnSs). Biomedical Applications 4 days Training School, October 3-8, 2011, Athens, COST action TD0802.
- EACR - Anticancer Agents Research Congress, October 13-16, 2011, Antalya, Turkey

#### G. Invited Lectures

- p90 ribosomal S6 kinases: Potential new targets for promising anticancer therapies? Eighth international conference of anticancer research, October 17-22, 2008 Kos, Greece
- Kaempferol Glycosides: Emerging Stars in the Flavonoid Galaxy? IV International Congress of Molecular Medicine, 27-30 June 2012, Istanbul, Turkey

- In vitro anticancer screening assays: theory and applications on drug delivery systems. Dendrimers as Composites of Advanced Drug Delivery nano Systems (aDDnSs). Biomedical Applications 4 days Training School, October 3-8, 2011, Athens, COST action TD0802.
- Labdanes as potential novel chemotherapeutics for cancer. EACR - Anticancer Agents Research Congress, October 13-16, 2011, Antalya, Turkey

## H. Memberships

- Greek Society for Pharmacology (GSP)
- Hellenic Society for Molecular Cancer Research (HAMCR)
- European Association for Cancer Research (EACR)

## I. Research Support

- Excellence 2011-PANNANOMED PI. H.Iatrou (Role: Co-Investigator for WPs 6 and 7)
- Industrial grant (Study of the anticacber activity of small molecules against animal cancer models) Medexis SA (Role: PI)
- -COST-TD0802 “Dendrimers in Biomedical applications” (Role: Participant)
- -GSRT Development of micromolecular ligands for the membrane androgen receptor with anticancer action. Action “New SMEs’ Support for Research and Technological Development”
- -BRFAA Evaluation of flavonol glycosides for potential anticancer activity
- -Industrial grant «Novel  $\sigma$ -receptor ligands with potent antitumor activities» (Anavex SA) 35000€ plus a post doc compensated directly by the company (Role: PI.)
- -Industrial grant “Gerolab” (Pharmaceutical formulations comprising labdane for the treatment of tumors or leukemias) (Medexis-R&D dept of “Gerolymatos PN” SA pharmaceutical company). Role: Co-Investigator (Principal Investigator: Ass. Prof. C. Demetzos)