

# CURRICULUM VITAE

## 1. PERSONAL INFORMATION

Last name : Liadaki  
First name : Kalliopi  
Date of birth : 4 February 1972  
Place of birth : Chios, Greece  
Citizenship : Greek  
Family situation : Married  
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## 2. PRESENT POSITION

Assistant Professor of Biochemical Pharmacology, Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece

## 3. EDUCATION

**1989-1993: B.Sc.**, Biology, School of Biology, University of Crete, Heraklion, Crete, Greece.

**1993-1995: Master's**, University of Crete, Department of Biology and Institute of Molecular Biology and Biotechnology.

**1995-2000: Ph.D.**, Molecular Biology and Genetics, University of Crete, Department of Biology and Institute of Molecular Biology and Biotechnology.

**2001-2007: Post-doctoral** fellow in Genetics, Harvard Medical School, Children's Hospital, Boston and Howard Hughes Medical Institute, Boston, MA 02115.

#### **4. RESEARCH INTERESTS**

- Molecular diagnosis of cancer and study of the molecular pathogenesis of cancer, aiming to the development of personalized therapies- Pharmacogenetics- Pharmacogenomics.
- Molecular mechanisms of anticancer potential of plant-derived compounds.
- Molecular mechanisms of resistance to anticancer drugs.
- Toxicity studies of drug and their metabolites using human hepatic cells.
- Lipoprotein metabolism and atherosclerosis studies using in vitro and in vivo systems.
- Studies of stem cell biology towards potential use for cell-based therapies (especially muscle degenerating diseases).

#### **5. PUBLICATIONS**

1. Liadaki, K. N., Liu, T., Xu, S., Ishida, B., Duchateaux, P., Krieger, J., Kane, J., Krieger, M., Zannis, V. Binding of high density lipoprotein (HDL) and discoidal reconstituted HDL to the HDL receptor scavenger receptor class B type I. Effect of lipid association and apoA-I mutations on receptor binding. *J. Biol. Chem.* (2000); 275: 21262.
2. Gorshkova, I. N., Liadaki, K., Gursky, O., Atkinson, D., Zannis, V. Probing the lipid-free structure and stability of apolipoprotein A-I by mutation. *Biochemistry.* (2000); 39: 15910.
3. Segrest, J. P., Li, L., Anantharamaiah, G. M., Harvey, S. C., Liadaki, K. N., Zannis, V. Structure and function of apolipoprotein A-I and high-density lipoprotein. *Curr. Opin. Lipidology.* (2000); 11: 105.
4. Reardon, C. A., Kan., H. Y., Cabana, V., Blachowicz, L., Lukens, J. R., Wu, Q., Liadaki, K., Getz, G. S., Zannis, V. In vivo studies of HDL assembly and metabolism using adenovirus-mediated transfer of apoA-I mutants in apoA-I-deficient mice. *Biochemistry.* (2001); 40: 13670.
5. Montanaro, F., Liadaki, K., Volinski, J., Flint, A., Kunkel, L. Skeletal muscle repair potential of adult mouse skin SP cells. *Proc Natl Acad Sci USA* (2003); 100: 9336.

- 6.** Bachrach, E., Li, S., Perez, A., Schienda, J., Liadaki, K., Volinski, J., Flint, A., Chamberlain, J., Kunkel, LM. Systemic delivery of human microdystrophin to regenerating mouse dystrophic muscle by muscle progenitor cells. *Proc Natl Acad Sci USA*. (2004); 101: 3581.
- 7.** Montanaro, F., Liadaki, K., Schienda, J., Flint, A., Gussoni, E., Kunkel, LM. Demystifying SP cell purification: viability, yield and phenotype are defined by isolation parameters. (2004). *Exp Cell Res*. 2004; 298(1):144.
- 8.** Liadaki, K., Kho, A., Sanoudou, D., Schienda, J., Flint, A., Kohane, Z., Beggs, A., Kunkel, L.M. Side Population cells isolated from different tissues share specific transcriptome signatures and express tissue-specific markers. *Exp Cell Res*, 2005, 303 (2): 360.
- 9.** Luth, E.S., Jun, S.J., Wessen, M.K., Liadaki, K., Gussoni, E., Kunkel, L.M. Bone marrow side population cells are enriched for progenitors capable of myogenic differentiation. *J. Cell Science*, 2008, 1 (121):1426.
- 10.** Liadaki, K., Luth, E.S., Kunkel, L.M. Co-detection of GFP and dystrophin in skeletal muscle tissue sections. *Biotechniques*, 2007, 42 (6): 699.
- 11.** Spanou, C., Veskokoukis, A. S., Stagos, D., Liadaki, K., Anastasiadi, M., Haroutounian S. A., Tsouka, M., Tzanakouli, E., Kouretas, D. Effects of grape extracts on the in vitro activity of enzymes involved in oxidative stress regulation. *In vivo* (2011); 25: 657.
- 12.** Spanou C., Tzioumaki N., Manta S., Margaris P., Kouretas D., Komiotis D., Liadaki K. Unsaturated Keto and Exomethylene Pyranonucleoside Analogues of Thymine and Uracil Exhibit Potent Antioxidant Properties. *Pharmacology and Pharmacy*, (2011); 2, 122.
- 13.** Liadaki K., Casar J.C., Wessen M. , Luth E.S., Jun S, Gussoni E, Kunkel L.M.  $\beta$ 4 integrin is a novel marker of a population of myo-endothelial progenitor cells in adult murine skeletal muscle. *Journal of Histochemistry & Cytochemistry*, (2012); 60 (1), 31.
- 14.** Spanou, C., Veskokoukis, A. S., Stagos, D., Liadaki, K., Skaltsounis A.L., Anastasiadi M, Haroutounian S., Kouretas, D. Effects of greek legume plant extracts on xanthine oxidase, catalase and superoxide dismutase activity. *Journal of Physiology and Biochemistry*, (2011); 68(1):37.

15. Tselepi M, Papachristou E, Angelis A, Aligiannis N, Skaltsounis A.L, Kouretas D, Liadaki K. Polyphenolic compounds derived from Greek legume plant extracts exhibit catalytic inhibition of eukaryotic topoisomerases I and II. *Journal of Natural Products*, (2011); 74 (11): 2362.

## **6. BOOK CHAPTERS**

1. Liadaki, K., Montanaro, F., Kunkel, L.M. Cellular mediated delivery of DMD: the intersection between regenerative medicine and genetic therapy. (2006). In *Duchenne Muscular Dystrophy: Advances in therapeutics. Section IV: Experimental Therapeutics*, Chapter 14. Jeffrey S. Chamberlain and Thomas Rando, Eds. Marcel Dekker, Inc., New York. Pages: 295-317.

2. Zannis, V.I., Chroni, A., Liu, T., Liadaki, K., Laccotrippe, M. (2004). New insights on the roles of apolipoprotein A-I, the ABCA1 lipids transporter, and the HDL receptor (SR-BI) in the biogenesis and the functions of HDL. In: *Cellular dysfunction in atherosclerosis and diabetes*. Editors: Maya Simionescu and Anca Sima Doina Popov. Romanian Academy Publishing House. Pages: 33-72.

## **7. ABSTRACTS AND PRESENTATIONS**

1. Liadaki, K. N., Ishida, B., Liu, T., Xu, S., Kane, J., Zannis, V., Krieger, M. Association with lipids and the C- and N- terminal domains of apolipoprotein A-I influence its binding to the HDL receptor SR-BI. (1999). *Circulation*, 100 (18): 684.

2. Gorshkova, I. N., Liadaki, K., Gursky, O., Zannis, V., Atkinson, D. Probing the solution structure of apolipoprotein A-I by mutations, CD and fluorescence. *Biophysical Journal*, (2000), 78 (1): 2482.

3. Liadaki, K., Montanaro, F., Flint, A., Kunkel, L. Chemotactic recruitment of stem cells to muscle. *Journal of the Neurological Sciences*, (2002); Vol.199: P39 Suppl. 1.

4. Bachrach, E., Li, S., Liadaki, K., Volinski, K., Muskiewicz, K., Thorne, M., Gussoni, E., Chamberlain, J S., Kunkel, L. M. Isolation, characterization and lentiviral

- transduction of muscle-derived stem cells from adult murine normal and mdx5cv, and fetal human muscle. 2002, 10<sup>th</sup> meeting of European Society of Gene Therapy, P-137: 90.
5. Bachrach, E., Li, S., Schienda, J., Volinski, K., Liadaki, K., Gussoni, E., Chamberlain, J S., Kunkel, L. M. Lentiviral transduction of muscle side population cells and transplantation into mdx(5cv) mice. *Neuromuscular Disorders*, 2003, 13(7-8): 640.
  6. Montanaro, F., Liadaki, K., Volinski, K., Flint, A., Kunkel, L. Skeletal muscle engraftment potential of adult mouse skin SP cells. 2003. *The First Annual Stem Cell Conference: Challenges in the Era of Stem Cell Plasticity*.
  7. Liadaki, K., Sanoudou, D., Schienda, J., Kho, A., Beggs, A., Kunkel, L. Transcriptional profiling of adult mouse bone marrow and muscle Side Population (SP) cells. 2003. *American Journal of Human Genetics*. Vol 73 (5): 437.
  8. Montanaro, F., Liadaki, K., Schienda, J., Flint, A., Gussoni, E., Kunkel, L. M. Variables affecting viability, yield and heterogeneity of bone marrow, muscle and skin side population cells. 2004. *2nd Annual Meeting of International Society of Stem Cell Research*, page 126.
  9. Liadaki, K., Kho, A., Sanoudou, D., Schienda, J., Flint, A., Kohane, Z., Beggs, A., Kunkel, L. Gene expression analysis of adult mouse muscle and bone marrow Side Population cells. 2004. *2nd Annual Meeting of International Society of Stem Cell Research*, page 123.
  10. Liadaki, K., Kho, A., Sanoudou, D., Schienda, J., Flint, A., Kohane, Z., Beggs, A., Kunkel, L.M. Side Population cells isolated from different tissues share transcriptome signatures and express tissue-specific markers. 2005. *Keystone Symposia: Molecular Regulation of Stem Cells*, page 78.
  11. Montanaro, F., Liadaki, K., Schienda, J., Flint, A., Gussoni, E., Kunkel, L.M. Isolation parameters and surface characteristics of bone marrow, muscle and skin Side Population (SP) cells. 2005. *Keystone Symposia: Molecular Regulation of Stem Cells*, page 84.
  12. Tselepi, M., Kouretas, D., Liadaki, K. Effect of polyphenolic compounds derived from legume extracts on topoisomerase I activity. 32<sup>nd</sup> Conference of the Hellenic Association of Biological Sciences, May 20<sup>th</sup> - 22<sup>nd</sup>, 2010, Karpenisi, Greece.

- 13.** Spiliotou, V., Veskokoukis, A., Kho, A., Liadaki, K., Kouretas, D. The effect of exercise on gene expression of rat skeletal muscle using microarray technology. 19<sup>th</sup> International Congress on Physical Education and Sport, 1<sup>st</sup> Congress of Biochemistry and Exercise Physiology, May 20<sup>th</sup> - 22<sup>nd</sup>, 2011, Komotini, Greece.
- 14.** Emmanouilidi A., Angelis A., Aligiannis N., Skaltsounis A.L., Kouretas D., Liadaki K. Effect of polyphenolic compounds derived from legume extracts on the growth of human cancer cells. 62<sup>nd</sup> Congress of the Hellenic Society of Biochemistry and Molecular Biology, December 9<sup>th</sup> -11<sup>th</sup>, 2011, Athens, Greece.
- 15.** Argyropoulou M., Athanassiou-Kostoglou I., Vilaras G., Karameris A., Liadaki K. Molecular diagnosis of thyroid cancer in the Greek population. 41<sup>st</sup> Hellenic Conference of Endocrinology and Metabolism, May 14<sup>th</sup> – 17<sup>th</sup>, 2014, Porto Heli, Greece.
- 16.** Vallianou I., Dafou, D., Liadaki K., Hadzopoulou-Cladaras, M. Hepatitis C virus perturbs TGF- $\beta$  signalling pathway in liver cancer. 65<sup>th</sup> Congress of the Hellenic Society of Biochemistry and Molecular Biology, November 28<sup>th</sup>-30<sup>th</sup>, 2014, Thessaloniki, Greece.
- 17.** Papoutsidakis G., Papadopoulou A., Loukou K., Argyropoulou M., Athanassiou-Kostoglou I., Vilaras G., Karameris A., Liadaki K. Association of BRAF and RAS mutations with thyroid cancer in the Greek population. 65<sup>th</sup> Congress of the Hellenic Society of Biochemistry and Molecular Biology, November 28<sup>th</sup>-30<sup>th</sup>, 2014, Thessaloniki, Greece.
- 18.** Papadopoulou A., Loukou K., Argyropoulou M., Papoutsidakis G., Athanassiou-Kostoglou I., Vilaras G., Karameris A., Liadaki K. Molecular analysis of BRAF and RAS genes in thyroid cancer in the Greek population. 37<sup>th</sup> Επιστημονικό Συνέδριο της Ελληνικής Εταιρείας Βιολογικών Επιστημών, May 21<sup>st</sup> - 23<sup>rd</sup>, 2015, Volos, Greece.
- 19.** Athanassiou-Kostoglou I., Argyropoulou M., Karanatsiou P., Papoutsidakis G., Papadopoulou A., Loukou K., Manolakelli A., Synadaki E., Vilaras G., Karameris A., Liadaki K. Analysis of BRAF and RAS genetic alterations in thyroid cancer in the Greek population. European Society of Endocrinology, Munich Germany, May 28<sup>th</sup> - 31<sup>st</sup>, 2016.