

PERSONAL INFORMATION

DIMITRIOS KOURETAS

WORK EXPERIENCE

- October 2007–Present **Professor, Animal Physiology - Toxicology.**
Department of Biochemistry-Biotechnology - University of Thessaly (Greece)
- March 2003–September 2007 **Associate Professor**
Department of Biochemistry-Biotechnology (Greece)
- September 1997–February 2003 **Assistant Professor**
University of Thessaly (Greece)
- September 1995–August 1997 **Lecturer**
University of Thessaly (Greece)
- March 1993–August 1995 **Researcher**
Theagenion Cancer Hospital (Greece)
- January 1990–July 1992 **Post doc**
Harvard Medical School (United States)

EDUCATION AND TRAINING

- 1989 **PhD in Biochemistry**
Faculty of Chemistry, University of Thessaloniki (Greece)
- 1985 **BSc in Pharmacy**
University of Patras (Greece)

ADDITIONAL INFORMATION

Expertise Research Interests:
Molecular mechanisms of antioxidant activity of plant phenolics.
Oxidative stress and exercise.
Antioxidant activities of plant extracts
Biofunctional foods in exercise

- Publications**
1. Kouretas D, Papageorgiou A, Antonoglou O. Increased protective activity against acid precipitation of poly(U) in the serum of tumor-bearing mice. *Anticancer Res.* 1988 Nov-Dec;8(6):1307-11.
 2. Kouretas D, Kountouras J, Tsapas G, Anastasiades N, Tsakiri I, Antonoglou O. Value of serum protective activity against acid precipitation of poly (U) in the differentiation between cirrhotic patients with and without hepatocellular carcinoma. *Anticancer Res.* 1990 Jul-Aug;10(4):1025-8.
 3. Kouretas D, Trnovsky J, Holdridge M, Theoharides TC. Two-dimensional gel electrophoretic profile of rat basophilic leukemia (RBL) and mast cells. *Life Sci.* 1991;49(18):1289-94.
 4. Kouretas D, Karinch AM, Rishi A, Melchers K, Floros J. Conservation analysis of rat and human SP-A gene identifies 5' flanking sequences of rat SP-A that bind rat lung nuclear proteins. *Exp Lung Res.* 1993 Jul-Aug;19(4):485-503.

5. Kouretas D, Vaitsopoulos J, Petropoulos P, Antonoglou O. Characterization of the protein protecting RNA from Acid precipitation and its evaluation as tumor-marker in gastrointestinal and gynecological cancer. *Oncol Rep.* 1995 Nov;2(6):1107-13.
6. Kouretas D, Voyatzi S, Sahpazidou D, Lazopoulos K, Antonoglou O. Enzymatic conversion of dihydrotestosterone from 3-keto to 3-enol form in the rat prostate. *Anticancer Res.* 1996 Sep-Oct;16(5A):2843-8.
7. Kala P, Koptides M, Diangelo S, Hoover RR, Lin Z, Veletza V, Kouretas D, Floros J. Characterization of markers flanking the human SP-B locus. *Dis Markers.* 1997 Nov;13(3):153-67.
8. Kouretas D, Antonoglou O. Ribonucleases protect RNA from acid precipitation. *Cell Mol Biol (Noisy-le-grand).* 1997 Dec;43(8):1181-90.
9. Zeginiadou T, Koliass S, Kouretas D, Antonoglou O. Nonlinear binding of sex steroids to albumin and sex hormone binding globulin. *Eur J Drug Metab Pharmacokinet.* 1997 Jul-Sep;22(3):229-35.
10. Papazisis KT, Kouretas D, Geromichalos GD, Sivridis E, Tsekrelis OK, Dimitriadis KA, Kortsaris AH. Effects of melatonin on proliferation of cancer cell lines. *J Pineal Res.* 1998 Dec;25(4):211-8.
11. Taitzoglou IA, Tsantariotou M, Kouretas D, Kokolis NA. Gossypol-induced inhibition of plasminogen activator activity in human and ovine acrosomal extract. *Andrologia.* 1999 Dec;31(6):355-9.
12. Drmanovic Z, Voyatzi S, Kouretas D, Sahpazidou D, Papageorgiou A, Antonoglou O. Albumin possesses intrinsic enolase activity towards dihydrotestosterone which can differentiate benign from malignant breast tumors. *Anticancer Res.* 1999 Sep-Oct;19(5B):4113-24.
13. Kouretas D, Laliotis V, Taitzoglou I, Georgellis A, Tsantariotou M, Mougios V, Amiridis G, Antonoglou O. Sex-hormone binding globulin from sheep serum: purification and effects of pregnancy and treatment with exogenous estradiol. *Comp Biochem Physiol C Pharmacol Toxicol Endocrinol.* 1999 Jul;123(3):233-9.
14. Nepka C, Asproдини E, Kouretas D. Tannins, xenobiotic metabolism and cancer chemoprevention in experimental animals. *Eur J Drug Metab Pharmacokinet.* 1999 Apr-Jun;24(2):183-9. Review.
15. Georgellis A, Kolmodin-Hedman B, Kouretas D. Can traditional epidemiology detect cancer risks caused by occupational exposure to pesticides? *J Exp Clin Cancer Res.* 1999 Jun;18(2):159-66. Review.
16. Mylonas C, Kouretas D. Lipid peroxidation and tissue damage. *In Vivo.* 1999 May-Jun;13(3):295-309. Review.
17. Nepka C, Sivridis E, Antonoglou O, Kortsaris A, Georgellis A, Taitzoglou I, Hytioglou P, Papadimitriou C, Zintzaras I, Kouretas D. Chemopreventive activity of very low dose dietary tannic acid administration in hepatoma bearing C3H male mice. *Cancer Lett.* 1999 Jul 1;141(1-2):57-62.
18. Kouretas D. More on music therapy with children during invasive procedures. *J Emerg Nurs.* 1999 Jun;25(3):167. No abstract available.
19. Kouretas D, Taitzoglou I. Dexamethasone has a biphasic effect on the c-Jun mRNA expression in the fetal and adult rat lung, in vivo. *Cell Mol Biol (Noisy-le-grand).* 1999 Mar;45(2):219-23.
20. Papazisis KT, Geromichalos GD, Kouretas D, Dimitriadis KA, Kortsaris AH. CDK-inhibitor olomoucine inhibits cell death after exposure of cell lines to cytosine-arabioside. *Cancer Lett.* 1999 Apr 26;138(1-2):221-6. Erratum in: *Cancer Lett* 2000 Feb 28;149(1-2):227.
21. Taitzoglou IA, Tsantariotou MP, Nepka C, Zervos I, Maltezos E, Kouretas D, Kokolis NA. Dietary administration of tannic acid lowers plasminogen activator activity in the liver of C3H hepatoma bearing male mice. *In Vivo.* 2000 Nov-Dec;14(6):767-71.
22. Margaritopoulos JT, Kouretas D, Tsitsipis JA. A modified method for the detection of differentially expressed mRNAs without using radioactivity. *In Vivo.* 2001 May-Jun;15(3):245-7.
23. Tsamis V, Mamuris Z, Panagiotaki P, Kouretas D. Proteins from fish eggs that protect DNA from acid precipitation and inhibit DNA synthesis. *Comp Biochem Physiol C Toxicol Pharmacol.* 2001 Aug;129(4):369-76.
24. Tsitsimpikou C, Spyridaki MH, Georgoulakis I, Kouretas D, Konstantinidou M, Georgakopoulos CG. Elimination profiles of flurbiprofen and its metabolites in equine urine for doping analysis. *Talanta.* 2001 Dec 24;55(6):1173-80.
25. Kouretas D, Mamuris Z, Stamatis C, Rodriguez-Burgos A, Tsamis V, Neofitou C. Isolation and characterization of a protein from Mendole (*Spicara maena*) eggs that binds to DNA and inhibits its replication as well as its acid precipitation. *In Vivo.* 2001 Jan-Feb;15(1):49-52.
26. Taitzoglou IA, Tsantariotou M, Zervos I, Kouretas D, Kokolis NA. Inhibition of human and ovine acrosomal enzymes by tannic acid in vitro. *Reproduction.* 2001 Jan;121(1):131-7.

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28. Khah EM, Kouretas D. Influence of storage conditions on protein profile of pepper seeds, analyzed by SDS-PAGE. *In Vivo*. 2003 May-Jun;17(3):259-60.
29. Panoutsopoulos GI, Kouretas D, Gounaris EG, Beedham C. Enzymatic oxidation of 2-phenylethylamine to phenylacetic acid and 2-phenylethanol with special reference to the metabolism of its intermediate phenylacetaldehyde. *Basic Clin Pharmacol Toxicol*. 2004 Dec;95(6):273-9.
30. Panoutsopoulos GI, Kouretas D, Beedham C. Contribution of aldehyde oxidase, xanthine oxidase, and aldehyde dehydrogenase on the oxidation of aromatic aldehydes. *Chem Res Toxicol*. 2004 Oct;17(10):1368-76.
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39. Fatouros IG, Destouni A, Margonis K, Jamurtas AZ, Vrettou C, Kouretas D, Mastorakos G, Mitrakou A, Taxildaris K, Kanavakis E, Papassotiriou I. Cell-free plasma DNA as a novel marker of aseptic inflammation severity related to exercise overtraining. *Clin Chem*. 2006 52(9):1820-4.
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43. Stagos D., Umstead T.M., Phelps D.S., Skaltsounis L., Charoutounian S., Floros J., Kouretas D. Inhibition of ozone-induced SP-A oxidation by plant polyphenols. *Free Radical Research* (2007), 41(3):357-366.
44. Kyparos A, Salonikidis K, Nikolaidis MG, Kouretas D. Short duration exhaustive aerobic exercise induces oxidative stress: a novel play-oriented volitional fatigue test. *J Sports Med Phys Fitness*. 2007 47(4):483-90.
45. Stagos D., Spanou C., Margariti M., Stathopoulos C., Mamuris Z., Kazantzoglou G., Magiatis P., Kouretas D. Cytogenetic effects of grape extracts and plant polyphenols on MMC-induced SCEs in human blood lymphocytes. *Journal of Agricultural and Food Chemistry* (2007), 55:5246-5252.
46. Gougoura S, Nikolaidis MG, Kostaropoulos IA, Jamurtas AZ, Koukoulis G, Kouretas D. Increased oxidative stress indices in the blood of child swimmers. *Eur J Appl Physiol*. 2007 100(2):235-9.
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- Jamurtas AZ. Uniform and prolonged changes in blood oxidative stress after muscle-damaging exercise. *In Vivo*. 2007 21(5):877-83.
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49. Nikolaidis MG, Kyparos A, Hadziioannou M, Panou N, Samaras L, Jamurtas AZ, Kouretas D. Acute exercise markedly increases blood oxidative stress in boys and girls. *Appl Physiol Nutr Metab*. 2007 32(2):197-205.
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51. Nikolaidis MG, Paschalis V, Giakas G, Fatouros IG, Koutedakis Y, Kouretas D, Jamurtas AZ. Decreased blood oxidative stress after repeated muscle-damaging exercise. *Med Sci Sports Exerc*. 2007 39(7):1080-9.
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56. S. Veskoukis, M. G. Nikolaidis, A. Kyparos, D. Kokkinos, C. Nepka, S. Barbanis and D. Kouretas, Effects of xanthine oxidase inhibition on oxidative stress and swimming performance in rats, 2008, *Appl. Physiol. Nutr. Metab.*, 33: 1140-1154.
57. Spanou, N. Aligiannis, A-L. Skaltsounis and D. Kouretas, Effect of Leguminosae family plant extracts and polyphenolic fractions on Topoisomerase I-induced nicking of DNA, 2008, *Review of Clinical Pharmacology and Pharmacokinetics*, 22 (2): 336-338.
58. Veskoukis, A.S., Nikolaidis, M.G., Kyparos, A., Kokkinos, D., Varamenti, E., Kouretas, D. The effect of allopurinol on protein carbonyls and swimming performance in rats. *Review of Clinical Pharmacology and Pharmacokinetics*, 2008 22(2):360-362.
59. Spanou C, Bourou G, Dervishi A, Aligiannis N, Angelis A, Komiotis D, Skaltsounis AL, Kouretas D. Antioxidant and chemopreventive properties of polyphenolic compounds derived from Greek legume plant extracts. *J Agric Food Chem*. 2008 Aug 27;56(16):6967-76. doi: 10.1021/jf800842p. Epub 2008 Jul 16.
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61. Kabasakalis A, Kalitsis K, Nikolaidis MG, Tsalis G, Kouretas D, Loupos D, Mougios V. Redox, iron, and nutritional status of children during swimming training. *J Sci Med Sport*. 2009 12(6):691-6.
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63. Fatouros IG, Chatzinikolaou A, Douroudos II, Nikolaidis MG, Kyparos A, Margonis K, Michailidis Y, Vantarakis A, Taxildaris K, Katrabasas I, Mandalidis D, Kouretas D, Jamurtas AZ. Time-course of changes in oxidative stress and antioxidant status responses following a soccer game. *J Strength Cond Res*. 2010 Dec;24(12):3278-86. doi: 10.1519/JSC.0b013e3181b60444.
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- emphasis on plant extract administration. *Cell Stress Chaperones*. 2012 17(1): 11-21.
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Projects

- PENED 2003 'Identification and assessment of biological active chemical compounds in Greek wines and respective Greek grape varieties (VITIS VINIFERA)- Investigation of their roles as chemopreventive compounds' (completed).
- EYREKA 2006-2008 'Exploitation of byproducts from tomato paste industry and processing of fruits through the regain of bioactive compounds of high added value'. Budget: 350000 euros.
- Biochemical monitoring of athletes of the Greek national team of classic athletics (SEGAS; 55000 euros) (2007-2008).
- 'INTERNATIONAL COLLABORATION in the context of Thrace's PEP 2006-2008 'Incorporation of bioactive plant extracts in the production and certification of biofunctional milk products of high added value'. Budget 400000 euros.
- 'Nutritional value and production of high quality biofunctional milk products by adding plant extracts enriched in antioxidants' (budget: 260000 euros) From the grant Innovation poles of GSRT.
- 'Development of biofunctional flour by incorporation of plant extracts enriched in bioactive compounds'. In collaboration with the 'Kaplanides' Mills company (budget: 70000 euros).
- 'Human networks of research and technological education. Human network of education in the field of biofunctional foods'. It was funded by the GSRT with 200000 euros.
- Production of biofunctional milk products of high quality by adding plant extracts enriched in antioxidants (budget: 50000 euros) in collaboration with the Olympos company.
- Production of biofunctional foods from extracts of pharmaceutical plants from Kissavos (50.000 euros). Prefecture of Larissa (2009-2011).
- Study of co-existence of genetic modified with normal plants in Cyprus (150.000 euros). From Cypriot Government after international competition (2009-2012).
- Contract work for spin-off K-Meditura (105.000 euros for 3 years) (2010-2013).
- Incorporation of natural antimicrobials of plant origin to meat products of high added value in collaboration with 'Vogiatzoglou meat company' (30000 euros) (2011-2013).
- Assessment of the antioxidant activity of grape stem extracts - Incorporation of grape stem extracts to bakery products and assessment of their in vivo antioxidant capacity in collaboration with 'Kaplanidis Mills' and 'Ntougkos Winery' (80000 euros) (2010-2013).
- Study of the agro-nutrient identity of foods in collaboration with 'Eat walk Hellas' company (60000 euros) (2012-2014).
- Study of oxidative stress biomarkers and metabolic profile in patients (300000 euros) (2012-2018).

Effects of a product containing carbohydrates and proteins on oxidative stress biomarkers after administration to athletes (ESPA; 45000 euros) (2011-2014).

Assessment of oxidative stress in physiological and pathophysiological conditions using the diagnostic system ORP of Luoxis company (47000 euros) (2013-2015).

Study of the chemical composition and toxicity of liquids used in electronic cigarettes (Association of companies of electronic cigarette; 756000 euros) (2012-2018).

Study of bioactivity of biofunctional foods from spirulina (20000 euros) (2014-2017).

Assessment of oxidative stress in i) athletes, ii) septic patients, iii) patients with eating disorders, using the diagnostic tests ORP company Luoxis (budget EUR 45,000) (2014-2016).

Study of functional properties of Coffee extracts (45.000 Euros). Cooperation with Coffee Island (2015-2017)

Study of functional properties of olive oil extracts from Mount Athos olive oil (50.000 Euros). Cooperation with Tsantali Winery, Greece(2016-2018)

Functional Food Development from grape stems: Cooperation in the frame of the action EREYNO-KAINOTOM0-DIMOURGO of Gsrt , Greece (450.000 euros), 2018-2020. SCIENTIFIC LEADER

Study of Greek meat quality by a combination of molecular and other techniques: Cooperation in the frame of the action EREYNO-KAINOTOM0-DIMOURGO of Gsrt , Greece (850.000 euros), 2018-2020. PARTNER

GIS study plus antioxidant profile of cherries in Greece , to the development of a tool for high added value of greek products: Cooperation in the frame of the action EREYNO-KAINOTOM0-DIMOURGO of Gsrt , Greece (400.000 euros), 2018-2020. SUBCONTRACTOR

High added value dairy products from exploitation of olive mills water waste polyphenols: Cooperation in the frame of the action EREYNO-KAINOTOM0-DIMOURGO of Gsrt , Greece (450.000 euros), 2018-2020. SUBCONTRACTOR

Memberships

Associate Editor Food and Chemical Toxicology (Elsevier , IF 3.5, top journal in Biochemical Toxicology)

Associate Editor Environmental Research (IF 3.8)

Associate Editor Toxicology Reports

Academic Editor : Oxidative Medicine and Cellular Longevity (IF 4.6)

Academic Editor : Antioxidants (IF 4.5)

Guest Editor: Food and Chemical Toxicology 2013

Other Relevant Information

Reviewer

Sport Medicine, Molecular Endocrinology, Xenobiotica, Toxicology in Vitro, Chemico Biological Interactions, Toxicology Letters, Food and Chemical Toxicology, European Journal Of Applied Physiology, Chemical research in Toxicology, Mutation Research, Journal Of Physiology, Physiological research, Journal Of Medicinal Food, British Journal Of Pharmacology, Pharmacological Research, Toxicology, Scand. Journ. Of Sport Medicine, British Journal of Sport Medicine, Basic and Clinical Pharmacology Toxicology, Chinese Journal of Physiology, Fitoterapia, Biochemical Pharmacology, Exp. Ther. Medicine. Biomedical Reports, Molecular Medicine Reports, PLOS one.