

Leda-Kalliopi A. Kovatsi
BSc, MD, PhD

Assistant Professor

Laboratory of Forensic Medicine & Toxicology

Curriculum Vitae

Thessaloniki 2014

Personal information

Name: Leda-Kalliopi

Surname: Kovatsi

Date of birth: 31 May 1973

Place of birth: Thessaloniki

Current position: Assistant Professor,
Laboratory of Forensic Medicine & Toxicology
School of Medicine
Aristotle University of Thessaloniki

Home address: Meg. Alexandrou 25A, Thessaloniki 54641

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Marital status: Married, mother of two young boys

Academic Degrees:

- **Medical Specialization in Forensic Medicine (2011)**
- **Medical Doctor degree (2007)**
- **Ph.D. in Toxicology (2000)**
- **Bachelor of Science (1996)**

Language

Skills:

- 1) English
- 2) French
- 3) Italian
- 4) Greek

Membership

in Scientific Associations:

- 1) Greek Association of Chemists.
- 2) Greek Association of Toxicologists.
- 3) Association of medical doctors of Thessaloniki.
- 4) Medical Association of Thessaloniki.
- 5) Greek Association of Clinical Chemistry-Clinical Biochemistry.
- 6) National Board of Clinical Chemistry-Clinical Biochemistry.
- 7) Global Nest.
- 8) EAPCCT (European Association of Poisons Centres and Clinical Toxicologists).
- 9) TIAFT (The International Association of Forensic Toxicologists).
- 10) Association for Medical Education in Europe.
- 11) European Communities Confederation of Clinical Chemistry and Laboratory Medicine.
- 12) MEDICHEM (Occupational and Environmental Health in the Production and Use of Chemicals).
- 13) ISFG (International Society of Forensic Genetics).

**Peer
reviewer for
scientific journals
and meetings:**

Journals

BMC Psychiatry, BMC Clinical Pathology, Food and Chemical Toxicology, Journal of Liquid Chromatography & Related Technologies, Hippokratia, Bioanalysis, Current Organic Chemistry, Drug Testing and Analysis, Toxicology Mechanisms and Methods, Journal of Separation Science, Global Journal of Medical Sciences, Journal of Pharmacy and Pharmacological Research, Reviewer, The Open Forensic Science Journal, Journal of Research in Environmental Science and Toxicology, Epigenomics, Toxicology, Clinical Toxicology, Journal of Forensic Research, The Cellular and Molecular Biology, Journal of Liquid Chromatography & Related Technologies.

Meetings

EAPCCT Congress 2011

EAPCCT Congress 2012

EAPCCT Congress 2013

Guest Editor

Current Medicinal Chemistry

International Collaborations

- **Armed Forces DNA Identification Laboratory, 1413 Research Boulevard, Rockville, MD 20850, USA.**

Our collaboration started in 2004 when I first visited the laboratory. The aim of the collaboration was to construct population DNA databases for the Greek population.

Indeed, three such population databases were published, one for autosomal STRs, one for Y STRs and one for mitochondrial DNA.

- **University of Groningen, The Netherlands.**

The collaboration began in 2003 when funding was received (from the Netherlands Organisation for Scientific Research (NWO) and the University of Groningen) for the research project titled "Social Change and Cultural Interaction in the Middle Helladic Argolid 2000-1500 BC".

For the needs of this project, we performed DNA analyses on bone samples dated 2000-1500 bC.

- **Zagreb University, Croatia**

As part of the collaboration agreement between the Aristotle University of Thessaloniki and the University of Zagreb, I visited Zagreb for a series of lectures.

- **Faculty of Health and Medical Sciences (FHMS), The University of Surrey, UK.**

Collaboration on the field of addiction and specifically on epigenetics of addiction to cocaine and heroin.

- **Department of Forensic Molecular Biology, Erasmus MC, University Medical Centre Rotterdam.**

Collaboration on Forensic DNA Phenotyping and on RM (rapidly mutating) Y STRs.

As part of the collaboration I visited the Department of Forensic Molecular Biology for two weeks.

- **Department of Occupational Safety and Health, Chung Shan Medical University, Taiwan.**

Collaboration on the field of epigenetics.

SCIENTIFIC PUBLICATIONS

Publications in journals indexed in Pubmed or Scopus

- 1) V. P. Kotsaki-Kovatsi, L. Kovatsi, Th. Kiriakidis and G. Koehler-Samouilidou. Influence of Inositolhexaphosphoric Acid (Phytic Acid) on the Distribution and the Excretion of Magnesium in Rat Tissues. (1997). *Magnesium: Current Status and New Developments* (eds. T. Theophanides and J. Anastassopoulou), Kluwer Academic Publishers, The Netherlands, p. 59-63.
- 2) V. P. Kotsaki-Kovatsi, L. Kovatsi, G. Koehler-Samouilidou and E. Bacoyanni. Effect of Inositolhexaphosphoric Acid (Phytic Acid) on the Distribution of Calcium and Zinc in Rat Tissues. (1998). *Metal Ions in Biology and Medicine* (eds. P. Collery, P. Bratter, V. Negretti de Bratter, L. Khassanova and J. C. Etienne), John Libbey Eurotext, Paris, p. 233-237.
- 3) V. P. Kotsaki-Kovatsi, E. Bacoyanni, G. Koehler-Samouilidou, L. Kovatsi and A. Kovatsis. Changes of the Zinc and the Calcium Concentrations in Rat Tissues After the Administration of Drugs Used in Hypertension Therapy. (1998). *Metal Ions in Biology and Medicine* (eds. P. Collery, P. Bratter, V. Negretti de Bratter, L. Khassanova and J. C. Etienne), John Libbey Eurotext, Paris, p. 681-685.
- 4) O Thomareis, A. Parlapani, L. Kovatsi and M. Giala. Effect of succinylcholine on the neuromuscular junction of hypoglycemic rats. (2000). *Methods and Findings in Experimental and Clinical Pharmacology*, 22(3): 155-158.
- 5) I. N. Papadoyannis, V. F. Samanidou and L. K. Kovatsi. A rapid high performance liquid chromatographic (HPLC) assay for the determination of oxytetracycline in commercial pharmaceuticals. (2000). *Journal of Pharmaceutical and Biomedical Analysis*, 23:275-280.
- 6) V. P. Kotsaki-Kovatsi, L. Kovatsi, G. Koehler-Samouilidou, M. Karavanis and E. Bacoyanni. Influence of Inositolhexaphosphoric Acid (Phytic Acid) on the Copper Distribution in Tissues and the Excretion of Copper in Rats. (2001). *Journal of Trace Elements in Medicine and Biology*, 14(4): 193-197.
- 7) L. Kovatsi and M. Tsouggas. The effect of oral aspartame administration on the balance of magnesium in the rat. (2001). *Magnesium Research*, 14 (3):189-194.
- 8) L. Kovatsi and M. Tsouggas. The effect of oral aspartame administration on the excretion and the distribution of zinc in rat tissues. (2002). *Trace Elements and Electrolytes*, 19 (1):11-14.

- 9) S. Voutsaki, S. Triantaphyllou, S. Kouidou-Andreou, L. Kovatsi, E. Milka. Lerna, 2000-1500 BC: a pilot analysis of funerary, skeletal and biomolecular data. (2003). *Pharos, Journal of the Netherlands Institute in Athens*, XI: 75-80.
- 10) L. Kovatsi, T.J. Parsons, R.S. Just and J.A. Irwin. Genetic variation for 15 autosomal STR loci (PowerPlex 16) in a population sample from northern Greece. (2006). *Forensic Science International*, 159 (1): 61-63.
- 11) S. Voutsaki, S. Triantafyllou, A. Ingvarsson-Sundstrom, S. Kouidou-Andreou, L. Kovatsi, A. Nijboer, D. Nikou and E. Milka. Project on the Middle Helladic Argolid: a report on the 2005 season. (2005). *Pharos, Journal of the Netherlands Institute in Athens*, 13: 93-117.
- 12) L. Kovatsi, K. Touliou, M. Tsolaki and A. Kazis. Cerebrospinal fluid levels of calcium, magnesium, copper and zinc in patients with Alzheimer's disease and mild cognitive impairment. (2006). *Trace Elements and Electrolytes*, 23 (4): 247-250.
- 13) S. Voutsaki, S. Triantafyllou, A. Ingvarsson-Sundstrom, K. Sarri, M. Richards, A. Nijboer, S. Kouidou-Andreou, L. Kovatsi, D. Nikou, E. Milka. Project on the Middle Helladic Argolid: a report on the 2006 season. (2006). *Pharos, Journal of the Netherlands Institute in Athens*, XIV: 59-99.
- 14) Ch. Doulgeris, N. Papadakis, P. Tsoumbaris, L. Kovatsi and H. Tsoukali. Arsenic, cadmium and manganese in drinking water of the Thessaloniki prefecture, Northern Greece. (2007). *Journal of environmental protection and ecology*, 8 (4): 769-774.
- 15) J. Irwin, J. Saunier, K. Strouss, C. Paintner, T. Diegoli, K. Sturk, L. Kovatsi, A. Brandstatter, M. A. Cariolou, W. Parson and T. J. Parsons. Mitochondrial control region sequences from northern Greece and Greek Cypriots. (2008). *International Journal of Legal Medicine*, 122: 87-89.
- 16) L. Kovatsi, D. Nikou, S. Triantaphyllou, S.N. Njau, S. Voutsaki, S. Kouidou. DNA repair enables sex identification in genetic material from human teeth. (2009). *Hippokratia*, 13 (3): 165-168.
- 17) L. Kovatsi, J.L. Saunier, J.A. Irwin. Population Genetics of Y-chromosome STRs in a Population of Northern Greeks. (2009). *Forensic Science International: Genetics*, 4 (1): 21-22.
- 18) L. Kovatsi, S. Njau, K. Nikolaou, A. Tsolakidou, I. Karamouzis, K. Thisiadou. Isoprostane as a marker of oxidative stress in chronic heroin users. Correlation with duration of heroin use or concomitant hepatitis C infection. (2010). *The American Journal of Drug and Alcohol Abuse*, 36(1): 13-17.
- 19) L. Kovatsi, E. Georgiou, A. Ioannou, C. Haitoglou, G. Tzimagiorgis, H. Tsoukali, S. Kouidou. p16 promoter methylation in Pb⁺² exposed individuals. (2010). *Clinical Toxicology*, 48: 124-128.

- 20)** L. Kovatsi, A. Pouliopoulos, A. Papadaki, V. Samanidou, H. Tsoukali. Development and validation of an HPLC method for the evaluation of niflumic acid cross-reactivity of two commercial immunoassays for cannabinoids in urine. (2010). *Journal of Analytical Toxicology*, 34: 229-232.
- 21)** G. Giannoglou, D. Konstantinou, L. Kovatsi, Y. Chatzizisis, D. Mikhailidis. Association of reduced zinc status with angiographically severe coronary atherosclerosis. A pilot study. (2010). *Angiology*, 61(5): 449-455.
- 22)** L. Kovatsi, S. Njau, K. Nikolaou, K. Topouridou, T. Papamitsou, G. Koliakos. Evaluation of prooxidant-antioxidant balance in chronic heroin users in a single assay: an identification criterion for antioxidant supplementation. (2010). *The American Journal of Drug and Alcohol Abuse*, 36(4): 228-232.
- 23)** S. Kouidou, L. Kovatsi, A. Ioannou. Seeking the 5th base of DNA using chromatographic methods of analysis. (2010). *Current Organic Chemistry*, 14(19): 2268-2281.
- 24)** P. Voultos, S. Njau, N. Tairis, D. Psaroulis, L. Kovatsi. Launching the Greek forensic DNA database. The legal framework and arising ethical issues. (2011). *Forensic Science International: Genetics*, 5: 407-410.
- 25)** Kovatsi L, Giannakis D, Arzoglou V, Samanidou V. Development and validation of a direct headspace GC-FID method for the determination of sevoflurane, desflurane and other volatile compounds of forensic interest in biological fluids: Application on clinical and post-mortem samples. (2011). *Journal of Separation Science*, 34, 1004-1010.
- 26)** L. Kovatsi, D. Fragou, V. Samanidou, S. Njau, S. Kouidou. Drugs of abuse: Epigenetic mechanisms in toxicity and addiction. (2011). *Current Medicinal Chemistry*, 18(12):1765-74.
- 27)** D. Fragou, A. Fragou, S. Kouidou, S. Njau, L. Kovatsi. Epigenetic mechanisms in metal toxicity. (2011). *Toxicology Mechanisms and Methods*, 21(4):343-52.
- 28)** L. Kovatsi, K. Rentifis, D. Giannakis, S. Njau, V. Samanidou. Disposable pipette extraction for gas chromatographic determination of codeine, morphine, and 6-monoacetylmorphine in vitreous humor. (2011). *Journal of Separation Science*, 34(14): 1716-21.
- 29)** G. Ampanozi, L. Kovatsi, E. Smyrnakis, E. Zaggelidou, M. Gavana, N. Papadakis, A. Benos. Analysis of fatal motor vehicle collisions: evidence from Central Macedonia, Greece. (2011). *Hippokratia*, 15(1): 32-36.
- 30)** V. Samanidou, C. Nazyropoulou, L. Kovatsi. A simple HPLC method for the simultaneous determination of venlafaxine and its major metabolite O-desmethylvenlafaxine in human serum. (2011). *Bioanalysis*, 3(15): 1713-8.

- 31)** V. Samanidou, L. Kovatsi, D. Fragou, K. Rentifis. Novel strategies for sample preparation in forensic toxicology. (2011). *Bioanalysis*, 3(17): 2019-46.
- 32)** L. Kovatsi, D. Fragou, V. Samanidou, S. Njau, S. Kouidou, A. Bailey. Evaluation of 5-methyl-2'-deoxycytidine stability in hydrolyzed and nonhydrolyzed DNA by HPLC-UV. (2012). *Bioanalysis*, 4(4):367-72.
- 33)** L. Kovatsi, A. Bintoudi, S. Njau, N. Vasiliadis, I. Tsitouridis. Long-term safety and efficiency of endovascular repair in an adolescent patient with post-traumatic aortic pseudoaneurysm. (2011). *Hippokratia*, 15(3): 285-286.
- 34)** V. Samanidou, K. Pantazidou, L. Kovatsi, S. Njau, A. Livanos. A simple HPLC method for the simultaneous determination of two selective serotonin reuptake inhibitors and two serotonin-norepinephrine reuptake inhibitors in hair, nail clippings, and cerebrospinal fluid. (2012). *Journal of Separation Science*, 35(7): 839-845.
- 35)** D. Fragou, S. Dotsika, P. Sarafidou, V. Samanidou, S. Njau, L. Kovatsi. Atypical antipsychotics: trends in analysis and sample preparation of various biological samples. (2012). *Bioanalysis*, 4(8): 961-980.
- 36)** S. Walsh, F. Liu, A. Wollstein, L. Kovatsi, A. Ralf, A. Kosiniak-Kamysz, W. Branicki, M. Kayser. The HirisPlex system for simultaneous prediction of hair and eye colour from DNA. (2013). *Forensic Science International: Genetics*, 7: 98-115.
- 37)** C. Lithari, M.A. Klados, C. Pappas, M. Albani, D. Kapoukranidou, L. Kovatsi, P.D. Bamidis, C.L. Papadelis. Alcohol affects the brain's resting-state network in social drinkers. (2012). *PLOS One*, 7(10): e48641.
- 38)** C. Tsitsimpikou; M. Tzatzarakis, P. Fragkiadaki, L. Kovatsi, P. Stivaktakis, A. Kalogeraki, D. Kouretas, A. Tsatsakis. Histopathological lesions, oxidative stress and genotoxic effects in liver and kidneys following long term exposure of rabbits to diazinon and propoxur. (2012). *Toxicology*, [Epub ahead of print].
- 39)** L. Kovatsi, K. Redifis, K. Mihailidou, P. Pavlidis, V. Samanidou. A validated UHPLC-diode array detector method for the bioanalysis of atypical antipsychotics in whole blood, urine and cerebrospinal fluid following SPE. (2012). *Bioanalysis*, 4(24): 2929-38.
- 40)** L. Kovatsi, S. Batzios, K. Nikolaou, D. Fragou, S. Njau, A. Tsatsakis, G. Karakiulakis, E. Papakonstantinou. Alterations in serum MMP and TIMP concentrations following chronic heroin abuse. (2013). *Toxicology Mechanisms and Methods*, [Epub ahead of print].

- 41)** V. Samanidou, C. Stathatos, S. Njau, L. Kovatsi. Disposable pipette extraction for the simultaneous determination of biperiden and three antipsychotic drugs in human urine by GC-nitrogen phosphorus detection. (2013). *Bioanalysis*, 5(1): 21-29.
- 42)** D. Fragou, P. Zanos, S. Kouidou, S. Njau, I. Kitchen, A. Bailey, L. Kovatsi. Effect of chronic heroin and cocaine administration on global DNA methylation in brain and liver. (2013). *Toxicology Letters*, 218: 260-265.
- 43)** D. Fragou, A. Fragou, V. Samanidou, S. Kouidou, S. Njau, L. Kovatsi. Recent advances in the bioanalysis of modified nucleotides in epigenetic studies. (2013). *Bioanalysis*, 5(23): 2947-2956.
- 44)** M. Michalakis, M.N. Tzatzarakis, L. Kovatsi, A.K. Alegakis, A.K. Tsakalof, I. Heretis, A. Tsatsakis. Hypospadias in offspring is associated with chronic exposure of parents to organophosphate and organochlorine pesticides. (2013). *Toxicology Letters*, 13: 1358-1361.
- 45)** C. Serpi, L. Kovatsi, S. Girousi. Electroanalytical quantification of total dsDNA extracted from human sample using, an ionic liquid modified, carbon nanotubes paste electrode. (2014). *Analytica Chimica Acta*, 812: 26-32.
- 46)** S. Walsh, L. Chaitanya, L. Clarisse, L. Wirken, J. Draus-Barini, L. Kovatsi, H. Maeda, T. Ishikawa, T. Sijen, P. de Knijff, W. Branicki, F. Liu, M. Kayser. Developmental validation of the HIRISplex system: DNA-based eye and hair colour prediction for forensic and anthropological usage. (2014). *Forensic Science International Genetics*, 9: 150-161.
- 47)** S. Belivanis, M.N. Tzatzarakis, E. Vakonaki, L. Kovatsi, M. Mantsi, A. Alegakis, M.P. Kavvalakis, D. Vynias, A.M. Tsatsakis. Buprenorphine and nor-buprenorphine levels in head hair samples from former heroin users under Suboxone® treatment. (2014). *Drug Testing and Analysis*, Suppl 1: 93-100.
- 48)** Ballantyne KN, Ralf A, Aboukhalid R, Achakzai NM, Anjos MJ, Ayub Q, Balažić J, Ballantyne J, Ballard DJ, Berger B, Bobillo C, Bouabdellah M, Burri H, Capal T, Caratti S, Cárdenas J, Cartault F, Carvalho EF, Carvalho M, Cheng B, Coble MD, Comas D, Corach D, D'Amato ME, Davison S, de Knijff P, De Ungria MC, Decorte R, Dobosz T, Dupuy BM, Elmrghni S, Gliwiński M, Gomes SC, Grol L, Haas C, Hanson E, Henke J, Henke L, Herrera-Rodríguez F, Hill CR, Holmlund G, Honda K, Immel UD, Inokuchi S, Jobling MA, Kaddura M, Kim JS, Kim SH, Kim W, King TE, Klausriegler E, Kling D, Kovačević L, Kovatsi L, Krajewski P, Kravchenko S, Larmuseau MH, Lee EY, Lessig R, Livshits LA, Marjanović D, Minarik M, Mizuno N, Moreira H, Morling N, Mukherjee M, Munier P, Nagaraju J, Neuhuber F, Nie S, Nilasitsataporn P, Nishi T, Oh HH, Olofsson J, Onofri V, Palo JU, Pamjav H, Parson W, Petlach M, Phillips C, Ploski R, Prasad SP, Primorac D, Purnomo GA, Purps

J, Rangel-Villalobos H, Rębała K, Rerkamnuaychoke B, Gonzalez DR, Robino C, Roewer L, Rosa A, Sajantila A, Sala A, Salvador JM, Sanz P, Schmitt C, Sharma AK, Silva DA, Shin KJ, Sijen T, Sirker M, Siváková D, Skaro V, Solano-Matamoros C, Souto L, Stenzl V, Sudoyo H, Court DS, Tagliabracci A, Taylor D, Tillmar A, Tsybovsky IS, Tyler-Smith C, van der Gaag KJ, Vanek D, Völgyi A, Ward D, Willemse P, Yap EP, Yong RY, Pajnič IZ, Kayser M. Towards male individualization with rapidly mutating Y-chromosomal STRs. (2014). *Human Mutation*, 35: 1021-1032.

- 49)** Chao MR, Fragou D, Zanos P, Hu CW, Bailey A, Koudou S, Kovatsi L. Epigenetically modified nucleotides in chronic heroin and cocaine treated mice. (2014). *Toxicology Letters*, 229:451-457.

Abstracts published in journals indexed in Pubmed or Scopus

- 50)** L. Kovatsi, S. Triantafyllou, J. Eliopoulos, M. Besios, S. Andreou, A.S. Tsaftaris, A. Dimitriadou and S. Koudou. In search of mothers and daughters in 3000 year old burials in Northern Greece. (2003). *Forensic Science International*, 136:42-43.
- 51)** L. Kovatsi and H. Tsoukali. Toxicity to Reproduction: From Animals to Humans. (2004). *Reproductive Toxicology*, 18 (5):734.
- 52)** K. Fedonidis, E. Georgiou, I. Andrea, L. Kovatsi, K. Fragou, T. Agorastos, S. Girousi, A. Voulgaropoulos, E. Tsoukali, C. Haitoglou, G. Tzimagiorgis, S. Koudou. p16 methylation among high risk, cigarette-smokers and heavy metal-exposed individuals. (2008). *The FEBS Journal*, 275:409.
- 53)** K. Nikolaou, L. Kovatsi, S.N. Njau, S. Molybda, M. Passali, I. Chalikia. Opiate detoxification in an inpatient setting in Thessaloniki, Greece. A 12 year experience. (2009). *Clinical Toxicology*, 47 (5), 451.
- 54)** Nikolaou K, Kovatsi L, Njau S, Zlatanov D, Passali M, Sgourou K, Organtzoglou E. Hepatitis C, hepatitis B and HIV infections in intravenous drug users in Greece and associated risk behavior. (2010) *Clinical Toxicology*, 48 (3), 307.
- 55)** Kovatsi L, Nikolaou K, Njau S, Topouridou K, Dyntzikou D, Kefalas A, Koliakos G. Serum catalase activity remains unaffected by the chronic abuse of heroin. (2011) *Clinical Toxicology*, 49 (3), 216.
- 56)** Vakonaki E, Christakis-Hampas M, Alegakis A, Flamourakis M, Kovatsi L, Renieri E, Tsitsimpikou C, Belivanis S, Tsatsakis A. Allele frequencies of fifteen STR loci in a population sample from Crete. (2012) *Toxicology Letters*, Volume 211S, Page S2.

- 57) Vakonaki E, Kovatsi L, Alegakis A, Androutsopoulos V, Gubandru M, Christakis-Hampsas M, Flamourakis M, Tsatsakis A. Comparison of allele frequencies of 15 STR loci between two populations in Greece. (2012) *Toxicology Letters*, Volume 211S, Page S3.
- 58) Tzatzarakis M, Savvopoulos M, Kavvalakis M, Nagaev I, Kovatsi L, Belivanis S, Koutras E, Nestoros I, Tsatsakis A. Comparative evaluation of deposition of cannabinoids, opiates and cocaine in hair samples from different anatomical sites. (2012) *Toxicology Letters*, Volume 211S, Page S37.
- 59) Androutsopoulos V, Koutala E, Dolapsakis G, Kovatsi L, Zafeiropoulos A, Kouretas D, Liesivuori J, Spandidos D, Tsatsakis A. Benzo[A]pyrene sensitizes MCF7 breast cancer cells to induction of apoptosis and G1 arrest by the natural flavonoid eupatorin-5-methyl ether, via activation of cell signaling proteins and Cyp1-mediated metabolism. (2012) *Toxicology Letters*, Volume 211S, Page S74.
- 60) Lithari C, Klados M A, Pappas C, Albani M, Kapoukranidou D, Kovatsi L, Fragou D, Papadelis C, Bamidis P. The effect of inebriation on human brain functional connectivity. (2012) *International Journal of Psychophysiology*, 85, 388.
- 61) Vakonaki E, Morozova V, Petrochenko S, Polyvanaya O, Myagkova M, Kavvalakis M, Kovatsi L, Tzatzarakis M, Tsatsakis A. Determination of antibodies to cocaine metabolites in serum of cocaine users. (2013) *Toxicology Letters*, Volume 221S, Page S91.
- 62) Vasilaki F, Maravgakis G, Stivaktakis P, Tsitsimpikou C, Vakonaki E, Fragkiadaki P, Kovatsi L, Christakis-Hampsas M, Kokkinakis E, Tsatsakis A. Evaluation of DNA damage and telomerase activity in liver and kidney after long term rabbits exposure to chlorpyrifos. (2013) *Toxicology Letters*, Volume 221S, Page S199.
- 63) Tzatzarakis M, Tsitsimpikou C, Mandakas X, Vakonaki E, Kavvalakis M, Theodoropoulou E, Kanaki K, Kovatsi L, Tsatsakis A. Hair analysis of sedative-hypnotics drugs involved in crime suspected cases in Greece. (2013) *Toxicology Letters*, Volume 221S, Page S93.
- 64) Vakonaki E, Tzatzarakis M, Kovatsi L, Mantsi M, Tsatsakis A. A commonly intronic variant in OPRD1 is associated with Buprenorphine response in former heroin users. (2014) *Toxicology Letters*, Volume 229S, Page S95.
- 65) Vasilaki F, Tsitsimpikou C, Tsarouhas K, Ozcagli E, Fragkiadaki P, Heretis I, Kovatsi L, Kyriakakis M, Tsatsakis A. Biochemical markers in long-term exposed rabbits to nandrolone decanoate. (2014) *Toxicology Letters*, Volume 229S, Page S217.