

Christos Kroupis, MSc, PhD

Eur Clin Chem

**Professor of Clinical Biochemistry and Medical Chemistry
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EDUCATION:

Varvakios Model High School, (1976-1982), Excellent grade (19 1/12)

University of Athens, Greece, Dept. of Chemistry (1982-1988) (**Bachelor's**)

Special training in 4th year in Clinical, Food and Environmental Chemistry (Undergraduate bibliographical research in the topics of doping agents and applications of Biotechnology)

Cornell University, Ithaca, New York, USA, Dept. of Biochemistry, Molecular and Cell Biology (1988-1991) 3-year **Master's Degree** (within a PhD program) - Minor in **Genetics** (Minor Advisor: Prof. Stanley A. Zahler)

MSc Thesis Topic: "Isolation and characterization of *T. fusca* cellulase E2 mutants".

Our goal was to improve the efficiency of one of the cellulolytic enzymes with molecular techniques. We picked region specific chemical mutagenesis as our technique of choice and mutants more or less active were isolated. We characterized them in many ways and finally by using DNA Sequencing we were able to identify the changes in the protein sequence. One of the mutants was found to convert the dimer enzyme into a monomer (Thesis Advisor: Prof. David B. Wilson).

University of Athens, Greece, Dept. of Chemistry (1998-2003) **PhD**

Ph.D Thesis topic: "Development and evaluation of mutation detection techniques for the genes *BRCA1* and *BRCA2* in the hereditary breast and ovarian cancer- Prognostic factors in the *BRCA1* carriers- Immunohistochemistry for *BRCA1*- Evaluation of *BRCA1* mRNA levels for the detection of micrometastatic disease" (Thesis Advisor: Prof. Evrikleia S. Lianidou)

EMPLOYMENT HISTORY:

-Researcher at the **Roche Institute of Molecular Biology, Hoffmann-La Roche Inc.**, Nutley, NJ, USA, June 91-Sept. 92 Basic cardiovascular research (lab of Dr. John P. Reeves): Establishment of a stable cell line (CK 1.4) expressing the cardiac Na/Ca exchanger, important for the Ca homeostasis in the cardiac muscle and development of suitable *in vitro* uptake assays to test it. Immunoprecipitation and immunofluorescence to verify the presence of the transporter. Amplification of the cell line and purification of the exchanger by metal affinity chromatography. Deletion/functional analysis of mutants.

-Foleros S.A. (**Ciba Corning Diagnostics**), Athens, Greece Aug 93- Jan 94. Technical support for equipment and reagents of biochemistry, hormones and blood count analyzers.

-Biochemist-Molecular Biologist of **Onassis Cardiac Center**, Athens, Greece, Jan 94-Sept 2006 Dept of Molecular Immunopathology. Laboratory monitoring of patients before and after heart/lung transplantation (HLA typing, PRA, immunophenotyping, cross-match, autoantibodies, lymphocyte cultures and cytokines, CMV detection). Collaborator of the cardiology depts. for research protocols (dilated cardiomyopathy, myocarditis and platelet activation after coronary angiography).

-Biochemist-Molecular Biologist of **Mitera Maternity and Surgery Hospital**, Athens, Greece, 1995-2003, part-time work, 15 hrs/week. Dept of Cytopathology and Dept of Genetics Immunohistochemistry and in-situ hybridization for cervical precancerous and breast cancer specimens. Molecular detection of sexually transmitted diseases (HPV, HSV, Chlamydia, Mycoplasma) and congenital infectious diseases (CMV, toxoplasma). Genetic predisposition analysis for thrombophilia, deafness and breast cancer (*BRCA* genes)

-Lecturer of Clinical Biochemistry and Molecular Diagnostics, **Attikon University Hospital, University of Athens Medical School**, Haidari, Athens, Greece, Sept 2007-June 2011

- Asst. Prof. of Clinical Biochemistry and Molecular Diagnostics, **Attikon University Hospital, University of Athens Medical School**, Haidari, Athens, Greece, June 2011-July 2019

-Assoc. Prof. of Clinical Biochemistry and Molecular Diagnostics, **Attikon University Hospital, University of Athens Medical School**, Haidari, Athens, Greece, Aug 2019-Sept. 2023

- Prof. of Clinical Biochemistry and Molecular Diagnostics, **Attikon University Hospital, University of Athens Medical School**, Haidari, Athens, Greece, Sept. 2023-till now

TEACHING EXPERIENCE:

-Teaching assistant in laboratory courses at **Cornell (NY, USA):**

Nucleic acids Lab (spring semester 1990)

Enzymology Lab (fall semester 1990)

- Teaching assistant in laboratory courses at **University of Athens:**

Clinical Chemistry Lab (spring semester 2000 και 2001)

-Assoc./ Asst. Prof. and Lecturer of **University of Athens Medical School** (Sept 2007-till now):

Medical chemistry course, undergraduates of Medical and Dental School

Clinical Chemistry and Molecular Diagnostics course, graduates in the Depts of Medicine, Chemistry and Biology

PUBLICATIONS IN PEER-REVIEWED JOURNALS:

- 1) Aceto J.F., M. Condrescu, **C. Kroupis**, H. Nelson, N. Nelson, D. Nicoll, K.D. Philipson and J.P. Reeves (1992). "Cloning and expression of the bovine cardiac sodium-calcium exchanger" *Arch. Biochem. Biophys.* **298**, 553-560
- 2) Pijuan V., Y. Zhuang, L. Smith, **Kroupis C.***, M. Condrescu, J.F. Aceto, J.P.Reeves and J.B. Smith (1993). "Stable expression of the cardiac sodium-calcium exchanger in CHO cells" *Am. J. Physiol.(Cell Physiology)* **264**, C1066-1074 (*first author from the same lab)
- 3) McGinnis K., **C. Kroupis** and D.B. Wilson (1993). "Dimerization of Thermomonospora fusca endocellulase E2" *Biochem.* **32**, 8146-8150
- 4) Condrescu M., J.P. Gardner, G. Chernaya, J.F. Aceto, **C. Kroupis** and J.P. Reeves (1995). "ATP-dependent regulation of sodium-calcium exchange in Chinese Hamster Ovary cells transfected with the bovine cardiac sodium-calcium exchanger" *J. Biol. Chem.* **270**, 9137-9146
- 5) Degiannis D., V. Kalteziotis, A. Thalassinos, A. Kapsalis, **C. Kroupis** and K. Koniavitou (1998). "The effect of Cyclosporine-A (CsA) and Sirolimus (Srl) on Interleukin 15 (IL-15)-driven proliferation of OKT3-preactivated human lymphocytes" *Transpl. Proceed.* **30**, 948-949
- 6) Antoniadis T., R. Rabionet, **C. Kroupis**, G.A. Aperis, J. Economides, J. Petmezakis, E. Economou-Petersen, X. Estivill and M.B. Petersen (1999). "High prevalence in the Greek population of the 35delG mutation in the connexin 26 gene causing prelingual deafness" *Clin Genet.* **55**, 381-2
- 7) Antoniadis T., T. Hatzis, **C. Kroupis**, E. Economou-Petersen and M.B. Petersen (1999). "Prevalence of Factor V Leiden, Prothrombin G20210A and MTHFR C677T mutations in a Greek population of Blood Donors" *Am. J. Hematol.* **61** (4), 265-267
- 8) Sbarouni E., **C. Kroupis**, Z.S. Kyriakides, K. Koniavitou and D. Kremastinos (2000). "Cell adhesion molecules in relation to simvastatin and hormone replacement therapy in coronary artery disease" *Eur. Heart J.* **21**, 975-980
- 9) Konstantopoulou I., **C. Kroupis**, A. Ladopoulou, A. Pantazidis, D. Boumba, E. S. Lianidou, M.B. Petersen, L. Florentin, E. Chiotellis, G. Nounesis, E. Efstathiou, D. Skarlos, C. Tsionou, G. Fountzilias and D. Yannoukakos (2000). "BRCA1 mutation analysis in Breast/Ovarian Cancer Families from Greece" *Hum. Mut.* **16** (3), 272-3
- 10) Adamopoulos S., J. Parissis, **C. Kroupis**, M. Georgiadis, D. Karatzas, G. Karavolias, K. Koniavitou, A.J. Coats and D. Kremastinos (2001). "Physical training reduces peripheral markers of inflammation in patients with chronic heart failure" *Eur. Heart J.* **22**(9), 791-7
- 11) Adamopoulos S., J. Parissis, D. Karatzas, **C. Kroupis**, M. Georgiadis, G. Karavolias, J. Paraskevaidis, K. Koniavitou, A.J. Coats and D. Kremastinos (2002). "Physical training

- modulates proinflammatory cytokines and soluble Fas-soluble Fas ligand in patients with chronic heart failure” *JACC* **39**, 653-663
- 12) Limas C.J., **C. Kroupis**, A. Haidaroglou and D.V. Cokkinos (2002). “Hyperprolactinaemia in patients with heart failure: clinical and immunogenetic correlations” *Eur. J. Clin. Invest.* **32** (2), 74-78
 - 13) **Kroupis C.***, A. Ladopoulou*, I. Konstantopoulou, L. Ioannidou-Mouzaka, A.C. Schofield, A. Pantazidis, S. Armaou, I. Tsiagas, E. Lianidou, E. Efstathiou, C. Tsionou, C. Panopoulos, M. Mihalatos, G. Nasioulas, D. Skarlos, N.E. Haites, G. Fountzilias, N. Pandis and D. Yannoukakos (2002). “Germ line BRCA1 and BRCA2 mutations in Greek breast/ovarian cancer families: 5382insC is the most frequent mutation observed” *Cancer Letters* **185** (1), 61-70 (*equally contributing first authors)
 - 14) Adamopoulos S., J. Parissis, M. Georgiadis, D. Karatzas, J. Paraskevidis, **C. Kroupis**, G. Karavolias, K. Koniavitou and D. Kremastinos (2002). “Growth hormone administration reduces circulating proinflammatory cytokines and soluble Fas/soluble Fas ligand system in patients with chronic heart failure secondary to idiopathic dilated cardiomyopathy” *Am. Heart J* **144** (2), 359-364
 - 15) **Kroupis C.**, E. Lianidou, N. Goutas, A. Ladopoulou, I. Konstantopoulou, A. Pantazidis, E. Efstathiou, N. Vourlidis, D. Yannoukakos and C. Tsionou (2003). “Atypical Medullary breast carcinoma in a family carrying the 5382insC BRCA1 mutation” *The Breast J* **9** (3), 266-268
 - 16) Limas C.J., C. Hasikidis, J. Iakovou, **C. Kroupis**, A. Haidaroglou and D.V. Cokkinos (2003). “Prognostic significance of soluble interleukin-2 receptor levels in patients with dilated cardiomyopathy” *Eur. J. Clin. Invest.* **33**, 443-448
 - 17) Sbarouni E., P. Flevari, **C. Kroupis**, Z.S. Kyriakides, K. Koniavitou and D. Kremastinos (2003). “The effects of raloxifene and simvastatin on plasma lipids and endothelium” *Cardiovasc Drugs Ther* **17**, 319-323
 - 18) **Kroupis C.**, E. Lianidou, N. Goutas, S. Vasilaros, D. Yiannoukakos and M.B. Petersen (2004). “Genetic counseling of medullary breast cancer patients” *Clin Genet* **65**, 343-344
 - 19) Limas C.J., P. Iakovis, A. Anifantakis, **C. Kroupis** and D.V. Cokkinos (2004) “Familial clustering of autoimmune diseases in patients with dilated cardiomyopathy” *Am. J. Cardiology* **93**, 1189-1191
 - 20) **Kroupis C.**, A. Stathopoulou, E. Zygalki, L. Ferekidou, M. Talieri, and E. Lianidou (2005). “Development and applications of a real-time quantitative RT-PCR method (QRT-PCR) for BRCA1 mRNA” *Clin Biochem* **38** (1), 50-57
 - 21) Zygalki E., A. Stathopoulou, **C. Kroupis**, L. Kaklamanis, Z. Kyriakidis, D. Kremastinos and E.S. Lianidou (2005). “Real-time RT-PCR quantification of vascular endothelial growth factor (VEGF) splice variants” *Clin. Chem* **51** (8), 1518-1520
 - 22) Flevari P., G. Theodorakis, I. Paraskevidis F. Kolokathis, A. Kostopoulou, D. Leftheriotis, **C. Kroupis**, E. Livanis and D.T. Kremastinos (2006). “Coronary and peripheral blood flow changes following biventricular pacing and their relation to heart failure improvement” *Europace* **8**, 44-50
 - 23) Theodorakis G., P. Flevari, **C. Kroupis**, S. Adamopoulos, E. Livanis, A. Kostopoulou, F. Kolokathis, I. Paraskevidis, D. Leftheriotis and D.T. Kremastinos (2006). “Anti-inflammatory effects of cardiac resynchronization therapy in patients with chronic heart failure” *PACE* **29** (3), 255-261
 - 24) **Kroupis C.**, A. Markou, N. Vourlidis, A. Dionyssiou-Asteriou and E. Lianidou (2006). “Presence of high-risk HPV DNA sequences in breast cancer tissues and association with histopathological characteristics” *Clin Biochem* **39** (7), 727-731
 - 25) **Kroupis C.**, G. Thomopoulou, T.G. Papatomas, N. Vourlidis and A.C. Lazaris (2006). “Population-based study of HPV infection and cervical neoplasia in Athens, Greece” *Epidemiol. Infect.* **135** (6), 943-950
 - 26) **Kroupis C.**, K. Christopoulos, M.L. Devletoglou, I. Tsiagas and E.S. Lianidou (2008). « Assymetric real-time PCR detection of BRCA1 5382insC mutation by melting curve analysis in the LightCycler” *Clin. Chimica Acta* **390**, 141-144
 - 27) Delimaris I., S. Georgopoulos, **C. Kroupis**, A. Zachari, M. Liberi, E. Bastounis and A. Dionyssiou-Asteriou (2008). “Serum oxidizability, total antioxidant status and albumin serum levels in patients with aneurysmal or occlusive arterial disease” *Clin Biochem* **41**, 706-711
 - 28) **Kroupis C.**, M. Theodorou, M. Kounavi, S.C. Oliveira, E. Iliopoulou, M. Mavri-Vavayanni, E.N. Melissari and D. Degiannis (2009). “Development of a real-time PCR detection method for a FCGR2A polymorphism in the LightCycler and application in the heparin-induced thrombocytopenia syndrome” *Clin Biochem* **42**, 1685-1693
 - 29) Vorkas P.A., K. Christopoulos, **C. Kroupis** and E.S. Lianidou (2010). “Mutation scanning of exon 20 of the *BRCA1* gene by high-resolution melting curve analysis” *Clin Biochem* **43**, 178-185
 - 30) Tsangaris I., A. Tsantes, P. Bagos, G. Nikolopoulos, **C. Kroupis**, P. Kopterides, I. Dimopoulou, S. Orfanos, A. Kardoulaki, S. Chideriotis, A. Travlou and A. Armaganidis (2009). “The effect of plasma homocysteine levels on clinical outcomes of patients with acute lung injury/acute respiratory distress syndrome” *Am. J. Med. Sci.* **338** (6), 474-477

- 31) Vorkas P.A., N. Poumpouridou N., S. Agelaki, **C. Kroupis**, V. Georgoulas and E.S. Lianidou (2010). “*PIK3CA* hotspot mutation scanning by a novel and highly sensitive high-resolution small amplicon melting analysis method” *J Mol Diagnostics* **12** (5), 697-704
- 32) **Kroupis C.**, M. Theodorou, A. Chaidaroglou, M. Dalamaga, S.C. Oliveira, D.V Cokkinos, D. Degiannis and A. Manginas (2010). “The association between a common *FCGR2A* polymorphism and coronary artery disease and CRP revisited” *Genetic Testing and Biomolecular Markers* **14** (6), 839-846
- 33) Iakovis P., A. Anyfantakis, C.J. Limas, **C. Kroupis**, D. Degiannis and D.V. Cokkinos (2011). “Increased inflammatory response in patients with dilated cardiomyopathy is associated with dyslipidaemia: effects of statin therapy” *Angiology* **62** (1), 55-61
- 34) Pavlidou A., M. Dalamaga, **C. Kroupis**, G. Konstantoulakis, M. Belimezi, G. Athanassas and C. Dimas (2011) “Survivin isoforms and clinicopathological characteristics in colorectal adenocarcinomas using real-time qPCR” *W. J. Gastroenterology* **17** (12), 1614-1621
- 35) **Kroupis C.** and N. Vourlidis (2011) “HPV Molecular Diagnostics” *Clin Chem Lab Med*, 49 (11), 1783-1799
- 36) Poumpouridou N. and **C. Kroupis** (2012). “Hereditary breast cancer: Beyond BRCA genetic analysis; PALB2 emerges” *Clin Chem Lab Med* **50**, (3), 423-434
- 37) Kokotas H., **C. Kroupis**, D. Chiras, M. Grigoriadou, K. Lamnissou, M.B. Petersen and G. Kitsos (2012). “Biomarkers in primary open angle glaucoma” *Clin Chem Lab Med* **50**, (12), 2107-2119
- 38) Mourtzikou A., M. Stamouli, **C. Kroupis**, S. Christodoulou, M. Skondra, A. Kastania, D. Pectasides, G. Athanasas and C. Dimas (2012). “Evaluation of carcinoembryonic antigen (CEA), epidermal growth factor receptor (EGFR), epithelial cell adhesion molecule EpCAM (GA733-2), and carbohydrate antigen 19-9 (CA 19-9) levels in colorectal cancer patients and correlation with clinicopathological characteristics” *Clin Lab* **58** (5-6), 441-448
- 39) Mourtzikou A., **C. Kroupis**, N. Poumpouridou, S. Christodoulou, M. Skondra, A. N. Kastania, G. Athanasas, D. Pectasides, K. Dimas (2012). “Molecular Detection of Circulating Tumor Cells in peripheral blood of colon cancer patients” *Journal of Gastroenterology and Hepatology Research*, **1** (5), 74-79
- 40) Flevari P., G. Theodorakis, D. Leftheriotis, **C. Kroupis**, F. Kolokathis, K. Dima, M. Anastasiou-Nana and D. Kremastinos (2012). “Serum markers of deranged myocardial collagen turnover: their relation to malignant ventricular arrhythmias in cardioverter-defibrillator recipients with heart failure” *Am Heart J*. **164** (4), 530-537
- 41) Melichar B and **C. Kroupis** (2012). “Cancer Epigenomics: moving slowly, but at a steady pace from laboratory bench to clinical practice” *Clin Chem Lab Med* **50**, (10):1699-701
- 42) **Kroupis C**, D. Chiras, K. Tzika and H. Kokkotas (2013). “Molecular genetics of pseudoexfoliation syndrome (PXFS) and glaucoma (PXFG)” *J Genet Syndr Gene Ther* **4**, (1), e118
- 43) Chiras D., K. Tzika, H. Kokkotas, S.C. Oliveira, M. Grigoriadou, A. Kastania, K. Dima, M. Stefanidou, M. Aspiotis, M.B. Petersen, G. Kitsos and **C. Kroupis*** (2013). “Development of novel *LOXLI* genotyping method and evaluation of *LOXLI*, *APOE* and *MTHFR* polymorphisms in exfoliation syndrome/glaucoma (XFS/XFG) in a Greek population” *Mol Vision* **19**, 1006-1016 (*equally contributing last authors)
- 44) Pavlidou A., **C. Kroupis***, N. Goutas, M. Dalamaga and C. Dimas (2014). “Validation of a real-time quantitative polymerase chain reaction method for the quantification of 3 survivin transcripts and quantification of three survivin transcripts and evaluation in breast cancer tissues” *Clin Breast Cancer* **14**, (2), 122-131 (*corresponding author)
- 45) Pavlidou A., **C. Kroupis*** and C. Dimas (2014). “Association of survivin splice transcripts with prognosis and treatment of breast cancer” *World J Clin Oncol* **5**, (5), 883-894 (*corresponding author)
- 46) Chiras D., Kitsos G., Petersen M.B., Skolidakis I. and **C. Kroupis** (2015). “Oxidative Stress in Dry Age-related Macular Degeneration and Exfoliation Syndrome” *Crit Rev Clin Lab Sci*. **52**, (1), 12-27
- 47) Velissari A., I. Skolidakis, S.C. Oliveira, C. Koutsandrea, G. Kitsos, M.B. Petersen and **C. Kroupis** (2015). “Novel association of *FCGR2A* polymorphism with age-related macular degeneration (AMD) and development of a novel *CFH* real-time genotyping method” *Clin Chem Lab Med* **53**, (10), 1521-1529
- 48) Kotsopoulou I., P. Tsoplou, K. Mavrommatis and **C. Kroupis** (2015). “Non Invasive prenatal testing (NIPT): limitations on the way to become diagnosis” *Diagnosis* **2**, (3), 141–158
- 49) Thelen M.H.M, F. Vanstapel, **C. Kroupis**, I. Vukasovic, G. Boursier, E. Barrett, F. B. Andreu, P. Meško Brguljan, D. Brugnani, M. Lohmander, L. Sprongl, T. Vodnik, I. Ghita, M. Vaubourdolle and W. Huisman (2015) “Flexible scope for ISO 15189 accreditation: a guidance prepared by the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM) Working Group Accreditation and ISO/CEN standards (WG-A/ISO)” *Clin Chem Lab Med* **53**, (8), 1173–1180
- 50) Makris K., D.Stefani, E. Makri, I. Panagou, M. Lagiou, A. Sarli, M. Lelekis and **C. Kroupis** (2015). “Evaluation of a particle enhanced turbidimetric assay for the measurement of neutrophil gelatinase-associated lipocalin in plasma and urine on Architect-8000: Analytical performance and establishment of reference values” *Clin Biochem* **48**, 1291-1297

- 51) Karaglani M., I. Toumpoulis, N. Goutas, N. Poumpouridou, D. Vlachodimitropoulos, S. Vasilaros, I. Rizos and **C. Kroupis** (2015). “Development of novel real-time PCR methodology for quantification of *COL11A1* mRNA variants and evaluation in breast cancer tissue specimens” *BMC Cancer* **15**, 694
- 52) Poumpouridou N., A. Acha-Sagredo, N. Goutas, D. Vlachodimitropoulos, I. Chatziioannidou, E. Lianidou, T. Liloglou and **C. Kroupis** (2016). “Development and validation of molecular methodologies to assess *PALB2* expression in sporadic breast cancer” *Clin Biochem* **49**, 253-259
- 53) Poumpouridou N., N. Goutas, C. Tsionou, K. Dimas, E. Lianidou and **C. Kroupis** (2016). “Development of a novel PTT assay for mutation detection in *PALB2* large exons and *PALB2* screening in medullary breast cancer” *Fam Cancer* **15**, 183-191
- 54) Marouga A., M. Dalamaga, A.N. Kastania, **C. Kroupis**, M. Lagiou, K. Saounatsou, K. Dimas and D.V. Vlahakos (2016). “Circulating resistin as an independent biomarker associated with all-cause and cardiovascular mortality in elderly, non-diabetic patients with chronic kidney disease” *Biomarkers* **21**(1), 73-79
- 55) Boursier B., I. Vukasovic, P. Brguljan, M. Lohmander, I. Ghita, F. Bernabeu, E. Barrett, D. Brugnoni, **C. Kroupis**, L. Sprongl, M.H.M Thelen, F. Vanstapel, T. Vodnik, W. Huisman, M. Vaubourdolle (2016). “Accreditation process in European countries – an EFLM survey” *Clin Chem Lab Med* **54** (4), 545-551
- 56) Lagiou M., N. Poumpouridou, N. Goutas, D. Vlachodimitropoulos, A. Pappa, E. Lianidou, T. Liloglou and **C. Kroupis** (2016). “Molecular Analysis of RASSF1 Gene Methylation and mRNA Expression in Sporadic Breast Cancer” *Clin Med Biochemistry Open Access* **2** (2), 118
- 57) Henny, J, A. Vassault, B. Boursier, I. Vukasovic, P. Brguljan, M. Lohmander, I. Ghita, F. Bernabeu, **C. Kroupis**, L. Sprongl, M.H.M Thelen, F. Vanstapel, T. Vodnik, W. Huisman and M. Vaubourdolle (2016). “Recommendation for the review of biological reference intervals in medical laboratories” *Clin Chem Lab Med* **54** (12), 1893–1900
- 58) Flevari, P., D. Lefteriotis, **C. Kroupis**, G. Antonakos, J. Lekakis and K. Dima (2017). “Copeptin levels in patients with vasovagal syncope” *Int J Cardiol* **230**, 642-645
- 59) Flevari, P., D. Lefteriotis, **C. Kroupis**, G. Antonakos, J. Lekakis and K. Dima (2017). “Response to the editor: Copeptin levels in patients with vasovagal syncope” *Int J Cardiol* **242**, 29
- 60) Zerva A., **C. Kroupis***, E. Trakakis, N. Poumpouridou, M. Tsagkla, E. Kassi, D. Kassanos and K. Dima (2017). “*AKT2* gene polymorphisms, sRANKL/OPG and hormone measurements in Polycystic Ovarian Syndrome (PCOS) women” *Clin Med Biochemistry* **3**, 1 (*corresponding author)
- 61) Sarli A., I. Skalidakis, A. Velissari, C. Koutsandrea C., M. Stefanidou, M.B. Petersen, **C. Kroupis*** and G. Kitsos* and M. Moschos* (2017). “Investigation of ARMS, CD14 and TLR4 gene polymorphisms with wet age-related macular degeneration (AMD) in a Greek population” *Clin Ophthalmology* **11**, 1347-1358 (*equally contributing last authors)
- 62) Psyrris A, C. Fortpied, G. Koutsodontis, M. Avgeris, **C. Kroupis**, N. Goutas, J. Menis, L. Herman, L. Giurgea, E. Remenar, M. Degardin, I.S. Pateras, J.A. Langendijk, C. van Herpen, A. Awada, J.R. Germà-Lluch, H.R. Kienzer, L. Licitra, J.B. Vermorken (2017). “Evaluation of the impact of tumor HPV status on outcome in patients with locally advanced unresectable head and neck squamous cell carcinoma (HNSCC) receiving cisplatin, 5-fluorouracil with or without docetaxel: A subset analysis of EORTC 24971 study” *Ann Oncol* **28**, 2213-2218
- 63) Mourtzikou A., M. Stamouli, P. Houtopoulos, A. Akalestos, A. Skliris, G. Kontelia, **C. Kroupis**, P. Moutsatsou, E. Mournianakis and C. Demetriou (2017) “Vitamin D levels and autoimmune diseases: a cross sectional study *International Journal of Biomedical Laboratory Science (IJBLS)* **6** (1), 17-23
- 64) Francis K., A. Dougali, K. Sideri, **C. Kroupis**, V. Vasdekis, K. Dima and A. Douzenis (2018) “Brain-derived neurotrophic factor (BDNF) in children with ASD and their parents: a 3-year follow-up” *Acta Psychiatr Scand* **137** (5), 443-441
- 65) Perlikos F., M. Lagiou, A. Papalois, T. Rizou, **C. Kroupis** and I.K. Toumpoulis (2018) “Lazaroid (U-74389G) ameliorates lung injury due to lipid peroxidation and nitric oxide synthase-dependent reactive oxygen species generation caused by remote systematic ischemia-reperfusion following thoracoabdominal aortic occlusion” *Int. J. Surg.* **55**, 156–161
- 66) Rizou T, F. Perlikos, M. Lagiou, M. Karaglani, T., S. Nikolopoulos, I. Toumpoulis and **C. Kroupis**, (2018) “Development of novel real-time RT-qPCR methodologies for quantification of the *COL11A1* mRNA general and C transcripts and evaluation in non-small cell lung cancer specimens” *J BUON* **23** (6), 1699-1710
- 67) Ntzifa A., **C. Kroupis**, A. Haliassos and E. Lianidou (2019) “A pilot plasma-ctDNA ring trial for the Cobas *EGFR* mutation test in clinical diagnostic laboratories” *Clin Chem Lab Med* **57** (5), e97-e101
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Sum of journal Impact factors:	416.297
Average Impact factor:	4.785
Number of citations for the above publications:	2315
h-index:	25
Lectures in congresses:	69
Awards	13
Abstracts in international congresses:	138 (104 in Journal Supplements)

Supervisor of one post-doc, five PhDs (3 completed) and 20 MSc students

CHAPTERS IN BOOKS:

- Koniavitou K., D. Degiannis, A. Haidaroglou, **C. Kroupis** and S. Adamopoulos (2001) "Immunological mechanisms in heart disease", chapter in "Graduate Courses of Onassis Cardiac Surgery Center 1998-1999", Parisianos Publishing, Athens, ISBN: 960-394-056-9, pages 45-56
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- Kroupis C.** (2015) "IVD products-reagent inserts and included information. Determination of reference value and other related requirements" and
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- Kokotas H. and D. Chiras, Sarli A., Skalidakis I., Velissari A., Gregoriadou M., Kitsos G., **Kroupis C.** and Petersen M.B. (2016). «Genetic and biochemical markers of age-related macular degeneration (AMD)» *Honorary volume for Professor E. Kanavakis*, Broken Hill Publishers Ltd, Cyprus ISBN: 978-9963-258-93-2, pages 373-394

TRANSLATIONS:

"Principles of Chemistry: A Molecular Approach" by N.J. Tro, Greek edition along with Assoc. Prof. S. Kouloheri and Prof. A.G. Papavassiliou, handed over to 1st year Medical students in University of Athens Medical School (Pashalidis Publishing, Athens 2012, ISBN 978-960-489-237-2)

"Lehninger's Principles of Biochemistry" by D.L. Nelson and M.M. Cox 7th edition 2017 (5 chapters, along with other members of the Laboratory of Biological Chemistry, with Prof. A.G. Papavassiliou as coordinator (Pashalidis Publishing -Broken Hill, Athens 2018, ISBN 978-992-556-320-3)

Translator/reviewer in Lab tests On line (Greek edition, www.labtestsonline.gr) [n=22 topics]

SCIENTIFIC COMMITTEE IN CONGRESSES:

- 22nd IFCC-EFCC European Congress of Clinical Chemistry and Laboratory Medicine, Athens, 11-25 June, 2017
- 20th IFCC-EFCC European Congress of Clinical Chemistry and Laboratory Medicine, Milano, 19-23 May, 2013 (International Scientific Advisory Board and Abstract Evaluation Committee)
- 15th Belgrade Symposium of Balkan Region, Belgrade, 11-12 April, 2019
- 26th Balkan Clinical Laboratory Federation meeting, Skopje, 3-5 Oct. 2018
- 2nd Panhellenic Symposium for Cytometry, Rhodes, 16-19 May, 2002
- 19th, 14th, 13th, 12nd, 11th, 10th, 9th and 6th Panhellenic Congresses of Clinical Chemistry

Abstract Evaluation Committee Chair, 22nd IFCC-EFCC European Congress of Clinical Chemistry and Laboratory Medicine, Athens, 11-15 June, 2017

Organizer and chairman in the Meet the Expert session on “Accreditation and Lab Management: why and how to do it”, 22nd IFCC-EFCC European Congress of Clinical Chemistry and Laboratory Medicine, Athens, 12 June, 2017

Chairman for the Plenary session of Professor N. Katsanis on “Whole Genome Sequencing in health and disease”, 22nd IFCC-EFCC European Congress of Clinical Chemistry and Laboratory Medicine, Athens, 15 June, 2017

Co-chairman for the symposium on “Traceability in Laboratory Medicine: a matter of patient safety”, 22nd IFCC-EFCC European Congress of Clinical Chemistry and Laboratory Medicine, Athens, 12 June, 2017

Chairman for the symposium “Epigenetics in Cancer” for the 20th IFCC-EFCC European Congress of Clinical Chemistry and Laboratory Medicine (EuroMedlab), Milano, 19-23 May, 2013

ORGANIZING COMMITTEE IN CONGRESSES:

President of the 17th Panhellenic Congresses of Clinical Chemistry, Athens, 21-23 Nov. 2019

President of the organizing committee of the 18th Panhellenic Congresses of Clinical Chemistry, Virtual, 15-17 Oct. 2020

-28th Balkan Clinical Laboratory Federation meeting, Sofia, 8-11 Sept., 2021

-22nd IFCC-EFCC European Congress of Clinical Chemistry and Laboratory Medicine, Athens, 11-25 June, 2017

-2nd Congress of Pharmacogenomics and Personalized Diagnosis and Therapy, Athens, 4-6 November, 2016

-IFCC (International Federation of Clinical Chemistry and Laboratory Medicine) Executive Board Committee, Corfu, April 2010

-XVI Meeting of Balkan Clinical Laboratory Federation, Athens, 2008

-1st Panhellenic Symposium for Cytometry, Athens, 20-23 May, 1999

EDITOR/REVIEWER/MEMBER IN COMMITTEES:

Editor of Clinical Chemistry and Laboratory Medicine (CCLM)

Preparing/Editing CCLM special section on Epigenetics in Cancer

Editor of Clinical and Medical Biochemistry Open Access, Journal of Laboratory Medicine and Precision Medicine, Medicina

Reviewer of articles (**n=88**) in: Clinical Chemistry and Laboratory Medicine (n=37), Clinical Biochemistry (n=26), Biochimica Medica (n=3), Blood Coagulation and Fibrinolysis (n=3), Clinical Chemistry (n=2), Breast Cancer Research and Treatment, Journal of Medical Virology, Intervirology, Expert Reviews in Molecular Diagnostics, Human Genomics and Proteomics, Familial Cancer, BMC Medical Genetics, Biotechnology Progress, Pharmacogenomics, BMC

Cancer, Molecular Medicine, DNA and Cell Biology, Oncology reports, Ophthalmic Research, Infection Genetics and Evolution, Journal of Cellular and Molecular Medicine, Eye

Reviewer of research projects for the Cyprus Institute of Research (n=2), the Israel Science Foundation (n=2), the South-African Medical Research Council and the Greek Research Registrar (n=3)

Expert for lab accreditation according to ISO 15189 and 17025 (ESYD, 2007)

Accessor for medical lab accreditation according to ISO 15189 (ESYD, 2008-2009)

Lead Assessor for medical lab accreditation according to ISO 15189 (ESYD, 2009-)

Member of a technical committee for accessing standards in health products (ELOT)

Chair- Full Member of the IVD -WG of the EFLM Quality and Regulations Committee

Vice-Coordinator for EHEQAS scheme (HPV external quality assessment scheme)

DATABASE SUBMISSIONS:

GENBANK Accession Number: L06438 [gi:163033]

Bos taurus (clone p17) Sodium-calcium exchanger mRNA

Aceto J.F., M. Condrescu, **C. Kroupis**, H. Nelson, N. Nelson, D. Nicoll, K.D. Philipson and J.P. Reeves (1992). "Cloning and expression of the bovine cardiac sodium-calcium exchanger" *Arch. Biochem. Biophys.* **298**, 553-560

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PROFESSIONAL SOCIETY MEMBERSHIPS:

-Eur Clin Chem (#1880-11/05/2006)

-Greek Society of Clinical Chemistry and Clinical Biochemistry (EEKX-KB, since 1993)

-Association of Greek Chemists (since 1988)

-Hellenic Association of Biochemistry and Molecular Biology (since 1992)

-Association of Medical Geneticists in Greece (since 2005)

-Vice-Coordinator for EHEQAS scheme (HPV external quality assessment scheme)

-ex-member of the American Society for Microbiology and the American Association for the Advancement of Science

-National Representative in EFLM (European Federation of Clinical Chemistry and Laboratory Medicine) 2009-2021

-Full Member on the IVD-WG of the Quality Management Committee in EFCC και chairman 2014-2017, corresponding member 2017-2021