

## **Short Curriculum Vitae (2024)**

**Panagiotis. A. Liakos** (Born in 1968)  
**Professor of Medical Biochemistry,**

Laboratory of Biochemistry, Faculty of Medicine,  
University of Thessaly, Greece.  
Panepistimiou 3, BIOPOLIS, Larissa 41500, Greece  
Tel: ++30 2410 685579 (office), 685576 (lab)  
Fax: ++30 2410 685545  
e-mail: [pliakos@med.uth.gr](mailto:pliakos@med.uth.gr)



### **EDUCATION-PROFESSIONAL POSITIONS**

June 1994: Graduated from Joseph Fourier I University, Maîtrise of Biochemistry from the Medical, Biological and Pharmaceutical School of Joseph Fourier I University, Grenoble France.

June 1995: Master in Molecular and Cellular Biology (specialized in physiopathology) from Joseph Fourier I University, Grenoble France.

July 1999: PhD in Molecular and Cellular Biology from the Biological, Medical and Pharmaceutical School of Joseph Fourier I University, Grenoble France. The research was realized in the laboratory of Biochemistry and Cellular Endocrine Regulation-INSERM244 unit, Department of Molecular and Structural Biology of Grenoble Nuclear Research Center (CEN/CEA Grenoble).

2001-2003: Postdoctoral Associate, Department of Biological Chemistry, Medical School Aristotle University Thessaloniki (AUTH) within the framework of the ENTER 2001 program (Integration into the Hellenic S &T Researchers System from Abroad), GSRT-Ministry of Development, Greece.

2003: Lecturer of Medical Biochemistry, Laboratory of Biochemistry, Medical Faculty, University of Thessaly, Greece.

2008: Assistant Professor of Medical Biochemistry, Laboratory of Biochemistry, Medical Faculty, University of Thessaly, Greece.

2010-2021: Employment at the Laboratory of Clinical Chemistry/Biochemistry of General University Hospital of Larissa, Clinical Laboratory Section, Faculty of Medicine

2017: Associate Professor of Medical Biochemistry, Laboratory of Biochemistry, Medical Faculty, University of Thessaly, Greece.

2022 to today: Professor of Medical Biochemistry, Laboratory of Biochemistry, Medical Faculty, University of Thessaly, Greece.

01/10/22 to today: Director of the Department of Basic and Applied Biomedical Sciences, Faculty of Medicine/School of Health Sciences, University of Thessaly, Greece

### **SCHOLARSHIPS – DISTINCTIONS**

- Fellowship of the French Ministry of Research for pursuing a doctoral thesis at the Center for Nuclear Research after receiving a Master's Degree (3 years).

- Fondation pour la Recherche Médicale Fellowship at the INSERM 244 Biochemistry Laboratory at the Grenoble Nuclear Research Center (CENG) (6 months).

## RESEARCH PROJECTS - FUNDING

1. French Ministry of Health's research program on Breast Cancer Prevention (1994). PI: Pr. EM Chambaz

2. Research program funded by the French Ministry of Education, Higher Education and Research on the Study of ACTH receptor expression in the adrenal glands (12 / 1995-12 / 1998) (3 years). PI: Pr. EM. Chambaz.

3. French-Portuguese Scientific and Technological Cooperation Research Program supported by the French Embassy / ICCTI "The expression of steroidogenic enzymes in particular  $3\beta$ -HSD and  $17\alpha$ -hydroxylase and corticotropin receptors in neonatal and adult female and male rats and in human adrenal carcinomas" (1998-1999) (2 years). PI: Dr. G. Defaye and Pr MC. Magalhaes.

4. Fondation pour la recherche médicale, "Adrenal carcinomas study: biochemical, molecular, genetic analysis and interpretation of metabolic disorders in patients". (12 months 1998-07 / 1999) (6 months). PI: Pr. E.M Chambaz.

5. Greek General Secretariat of Research and Technology, Integration Program from abroad (**ENTER 2001**) - Operational Program "Competitiveness" by GSRT, Ministry of Development, entitled "The role of metalloproteases in the pathophysiology of the skin. Investigation of the effect of latanoprost (2001-2003) (2 years).

Collaborating Labs: Lab. of Biochemistry & Ophthalmology Clinic (Aristotelian Univ. of Thessaloniki), PI: Prof. G. Koliakos and Assistant Prof. A. Conostas.

6. Research Program Funded by the Hellenic Endocrinology Society on the Study of the Frequency of Obesity in the Thessaly Population (2005-06). PI: Prof. G. Koukoulis.

7. Ministry of Education, Program **PYTHAGORAS II** "Investigation of the signaling pathways activated by hypoxic stress and their role in apoptosis" (2005-2007).

PI: S. Bonanou, Project Budget: 50.000.

8. Ministry of Education, Program **PYTHAGORAS II** "Study of the effect of new drugs on fetal hemoglobin production in primary stem cell cultures: Analysis of their mechanisms of action " (01/2005 - 12/2007). PI: Assistant Prof. P. Kollia. Project Budget: 50.000

9. Research Committee of the University of Thessaly on "Study of free radical biomarkers, expression of HIF-1 $\alpha$  transcription factor and its target genes in clinical situations involved in oxidative stress. Application in lung and liver diseases. Project No. 3237 (2005- today).

PI: Assistant Prof **P. Liakos**

10. Research Committee of the University of Thessaly entitled "Study of the expression of biochemical markers of synovial fluid in patients with osteonecrosis" No.Program: 3738. PI: Prof. Zoe Dailiana.

11. Greek General Secretariat of Research and Technology: **E.P.AN-II COOPERATION 2009** "Hepatidanalysis: Development of automated methods for the determination of hepsidin and investigation of its diagnostic and pathogenetic role in iron homeostasis deregulation diseases" (2011-2013).

Collaborating Institutes: Hellenic Pasteur Institute, School of Medicine Univ. Ioannina, MEDICON HELLAS, BIOMED-CERETETH.

PI for BIOMED: G. Simos, Project Budget (BIOMED): 72.000 €

12. ESPA 2007-2013."EDUCATION AND LIFELONG LEARNING"ACTION "EXCELLENCE II" - entitled "HYPOXYTARGET: Targeting hypoxia-induced HIF transcription factors in inflammation and cancer (code 3129). PI: Prof. G. Simos. Financing amount: 295,000 € for 18 months.

13. State Scholarships Foundation (IKY) for excellent Postdoctoral Studies in Greece-Siemens Program 2014-2015 entitled "*Investigation of the role of hypoxia in the regulation of angiogenesis in microvascular endothelial cells*" for the elaboration of the Postdoctoral Research of Christina Befani in Greece.

PI and Scientific Coordinator: **P. Liakos**. (Amount of funding: €30,000 for a period of 23 months).

14. Funding from the State Scholarships Foundation (IKY) for Postgraduate Studies of Second Cycle Studies, NSRF 2014-2020 entitled "*Investigation of the molecular mechanisms of action of the Hypoxia Inducible Factor 2 alpha*" for the Doctoral Research of Ioanna Gkotinakou in Greece.

PI and Scientific Coordinator: **P. Liakos**. (Amount of funding: €20,000 for a period of 20 months).

15. Funding from the NSRF 2014-2020, EDBM "Supporting researchers with emphasis on young researchers - 2nd cycle". Title of the project "*Study of the new interaction of HIF-2α with Reptin and its role in adaptation of cancer cells to hypoxia*".

PI and Scientific Coordinator: **P. Liakos**. (Amount of funding: €41,500 for a 15 months (2019-2021).

## TEACHING EXPERIENCE

**10/2001-05/2003:** Coordinator and teacher: 1<sup>st</sup> and 2<sup>nd</sup> semester courses " Biochemistry I and II and optional course Clinical Biochemistry at the Department of Molecular Biology and Genetics, Democritus University of Thrace, Greece.

**02/2002- 05/2003:** Participation in teaching of semester courses "Molecular Biology", "Metabolism regulation" and "Clinical Biochemistry" at the department of Biochemistry and Biotechnology, University of Thessaly, Greece.

**2003-today:** Participating in teaching of "Medical Chemistry", "Biochemistry I", "Biochemistry II" (Coordinator since 2017) in the 1st, 2nd and 3rd semesters, respectively of Faculty of Medicine,

**2004-today:** Coordinator and teacher: 4th semester optional course "Clinical Biochemistry" for students of Medicine.

**2004-today:** Participating in teaching (Coordinator 2009-12): course "Cellular Signaling and Regulation of Gene Expression" in the Postgraduate Studies Program "Clinical Applications of Molecular Medicine".

**2006- today:** Participating in teaching: course "Genetic base of reproduction" in the Postgraduate Studies Program "Biology of reproduction", Faculty of Medicine, University of Thessaly.

**2013- today:** Participating in teaching: course "Molecular genetics" in the Postgraduate Studies Program "Human genetics", Faculty of Medicine, University of Thessaly.

**2016- today:** Participating in teaching: course "Balanced Nutrition and Assessment of Eating Disorders and Deficits" of the Postgraduate Program "Nutrition in Health and Disease" of the Faculty of Medicine, University of Thessaly.

## **ACADEMIC SUPERVISION**

Direct supervision in the Faculty of Medicine, University of Thessaly:

- Three successfully completed PhD Theses and one in progress (Principal Scientific coordinator).
- Four successfully completed PhD Theses and four in progress (Member of the scientific committee and Scientific Coordinator).
- Diploma Theses of four students of the "Clinical Applications of Molecular Medicine" Postgraduate Program, two students of the "Reproduction Biology" Postgraduate Program and two students of the "Biochemistry & Biotechnology" Department undergraduate program.

Currently, I supervise two post-doctoral researchers (Ch. Befani, I.M. Gkotinakou) and one PhD Student (A. Diseri).

## **OTHER ACADEMIC ACTIVITIES**

- Participation in 65 International Scientific Conferences, Workshops or Schools.
- Delivery of 11 lectures as invited speaker in National and International Institutes
- Co-author at 10 book chapters in Clinical chemistry and coordinator of the Greek edition.
- Administrative and Organizational work in the Faculty of Medicine
- Member of Scientific associations
- Reviewer of scientific articles for the journals: Biochemical Journal, British Journal of Medicine and Medical Research, Cell Physiol Biochem, Hippokratia Journal, Hormones, Clin Endocrinol Metabolism, Molecular Medicine Reports.
- Reviewer of Research grant proposal for: HFSP Career

## **RESEARCH INTERESTS**

The major field of study in the laboratory of Biochemistry in Faculty of Medicine, Larissa is the molecular mechanisms of the cellular response to reduced oxygen concentration (hypoxia). Hypoxia characterizes major physiological processes, such as development and pathological conditions such as cancer and affects gene expression through the hypoxia-inducible transcription factors HIF-1 and HIF-2.

My research projects focus on the second less-studied isoform of the HIF family, HIF-2 $\alpha$ . Elucidate its molecular mechanisms of regulation in cancer and provide new tools for selective HIF-2 inhibition. More specifically:

- 1) HIF-2 $\alpha$  posttranslational modifications (phosphorylation) and HIF-2 $\alpha$  protein interactions.
- 2) Role of HIF-2 $\alpha$  in angiogenesis

Other research projects

- 3) Research and development of molecular biomarkers in disease
- 4) Study of the antitumor activity of proteasome inhibitors

- 5) Study of apnea mechanisms and oxidative stress
- 6) Study of prostate cancer, adrenal carcinoma and steroidogenesis,

## RESEARCH PUBLICATIONS

Co-author a total of **56 publications: 54 original research papers** in peer-reviewed journals, **2 review articles** and **10 book chapters in Clinical chemistry**.

**Total impact factor: 163, citations 1957 and h-index: 24**, (Google Scholar, Sept 2024),

Co-author in **76 presentations** in national and international scientific conferences.

Pubmed Link: <https://www.ncbi.nlm.nih.gov/pubmed/?term=Liakos+P>

## LIST OF PUBLICATIONS from 2013 onwards

### **Molecular mechanisms of the cellular response to hypoxia and HIFs**

1. Gkotinakou IM, Befani C, Simos G and **Liakos P.** (2019)  
ERK1/2 phosphorylates HIF-2 $\alpha$  and regulates its activity by controlling its CRM1-dependent nuclear shuttling.  
*J Cell Science* Apr 8;132(7). pii: jcs225698. Impact factor: 4,4
2. Vitoratou DI, Tolia M, **Liakos P**, Tsoukalas N, Giaginis C, Nikolaou M, Nikolaou G, Rigas G, Psarianos K, Lioupis A, Kyrgias G. (2019) *Clinical value of significance of Hypoxia Inducible Factor-1 $\alpha$ , Glucose Transporter-1 and Carbonic Anhydrase IX in rectal cancer after preoperative chemoradiotherapy.*  
*J BUON.* Mar-Apr;24(2):456-463. Impact factor: 1,38
3. Befani C and **Liakos P** (2018) The role of hypoxia-inducible factor-2 alpha in angiogenesis.  
*J Cell Physiol.* Dec;233(12):9087-9098 Impact factor:3,92
4. Befani C & **Liakos P** (2017) Hypoxia upregulates integrin gene expression in microvascular endothelial cells and promotes their migration and capillary-like tube formation  
*Cell Biology International* Jul;41(7):769-778. Impact factor: 1,66
5. Frakolaki E, Kaimou P, Moraiti M, Kalliampakou KI, Karampetsou K, Dotsika E, **Liakos P**, Vassilacopoulou D, Mavromara P, Bartenschlager R, Vassilaki N. (2018)  
The Role of Tissue Oxygen Tension in Dengue Virus Replication.  
*Cells.* Dec 1;7(12).doi: 10.3390/cells7120241 Impact factor: 4,829
6. Pangou E, Befani C, Mylonis I, Samiotaki M, Panayotou G, Simos G, **Liakos P** ( 2016)  
HIF-2 $\alpha$  phosphorylation by CK1 $\delta$  promotes erythropoietin secretion in liver cancer cells under hypoxia.  
*J Cell Sci.* Nov 15;129(22):4213-4226. Impact factor: 4,7
7. Befani C, Mylonis I, Gkotinakou IM, Georgoulas P, Hu CJ, Simos G, **Liakos P.** (2013)  
Cobalt stimulates HIF-1-dependent but inhibits HIF-2-dependent gene expression in liver cancer cells.

8. Befani C. D., Vlachostergios P. J, Hatzidaki E, Patrikidou A, Bonanou S, Simos G, Papandreou C N.& **Liakos P** (2012). Bortezomib represses HIF-1 $\alpha$  protein expression and nuclear accumulation by inhibiting both PI3K/Akt/TOR and MAPK pathways in prostate cancer cells.

***J Mol Med (Berl).*** Jan; 90(1):45-54. Epub 2011 Sep 10.

*Impact factor: 4,768*

9. Lyberopoulou A, Mylonis I, Papachristos G, Sagris D, Kalousi A, Befani C, **Liakos P**, Simos G, Georgatsou E. (2013) MgcRacGAP, a cytoskeleton regulator, inhibits HIF-1 transcriptional activity by blocking its dimerization.

***Biochim Biophys Acta.*** Jun;1833(6):1378-87.

*Impact factor: 5,297*

10. Vassilaki N, Kalliampakou KI, Kotta-Loizou I, Befani C, **Liakos P**, Simos G, Mentis AF, Kalliaropoulos A, Doumba PP, Smirlis D, Foka P, Bauhofer O, Poenisch M, Windisch MP, Lee ME, Koskinas J, Bartenschlager R, Mavromara P. (2013) “ Low Oxygen Tension Enhances Hepatitis C Virus Replication.”

***J Virol.*** Mar;87(5):2935-48.

*Impact factor:*

5,076/

11. Mylonis I, Sembongi H, Befani C, **Liakos P**, Siniosoglou S, Simos G. (2012) Hypoxia causes triglyceride accumulation by HIF-1-mediated stimulation of lipin 1 expression.

***J. Cell Sci.*** Jul 15;125 (Pt 14):3485-93

*Impact factor: 5,877*

12. Triantafyllou A, **Liakos P**, Tsakalof A, Chachami G, Paraskeva E, Molyvdas P-A, Georgatsou E, Simos G, and Bonanou S (2007)

The flavonoid quercetin induces HIF-1 $\alpha$  expression and inhibits cell proliferation by depleting iron.

***Free Radic Res ; 41(3):847-56.***

*Impact factor: 2.925*

13. Chachami G, Hatziefthimiou A, **Liakos P**, Bonanou S, Molyvdas P-A, Simos G and Paraskeva E. (2007) Exposure of differentiated Airway Smooth Muscle cells to serum stimulates both induction of Hypoxia Inducible Factor-1 $\alpha$  and airway responsiveness to Ach.

***Am J. Physiol: Lung Cell Mol Biol*** 293, 913-22

*Impact factor: 4.214*

14. Triantafyllou, A., **Liakos, P.**, Tsakalof, A., Georgatsou, E., Simos, G. and Bonanou, S. (2006) Cobalt induces hypoxia-inducible factor-1 $\alpha$  in HeLa cells by an iron-dependent, but ROS-, PI-3K- and MAPK-dependent mechanism.

***Free Radical Research*** 40(8):847-856

*Impact factor: 2.536*



#### **Study of the antitumor activity of proteasome inhibitors**

15. Vaiou M, Pangou E, **Liakos P**, Sakellaridis N, Vassilopoulos G, Dimas K, Papandreou C (2016)

Endothelin-1 (ET-1) induces resistance to bortezomib in human multiple myeloma cells via a pathway involving the ETB receptor and upregulation of proteasomal activity.

***J Cancer Res Clin Oncol.*** 2016 Oct;142(10):2141-58.

*Impact factor: 3,141*

16. Vlachostergios PJ, Hatzidaki E, Befani CD, **Liakos P**, Papandreou CN. (2013)

Bortezomib overcomes MGMT-related resistance of glioblastoma cell lines to temozolomide in a schedule-dependent manner.

***Invest New Drugs.*** Oct;31(5):1169-81

*Impact factor: 2,927*

17. Tsapakidis K, Vlachostergios PJ, Voutsadakis IA, Befani CD, Patrikidou A, Hatzidaki E, Daliani DD, Moutzouris G, **Liakos P** and Papandreou CN. (2012) Bortezomib reverses the proliferative and antiapoptotic effect of neuropeptides on prostate cancer cells.  
*International Journal of Urology* Jun 19 (6) 565-74 *Impact factor: 1,734*

#### Study of apnea mechanisms and oxidative stress

18. Alexopoulos EI, Haritos G, Befani C, Malakasioti G, Lachanas VA, **Liakos P**, Gourgoulisanis K, Kaditis AG. (2018) Serum leukotriene B4 levels, tonsillar hypertrophy and sleep-disordered breathing in childhood.  
*Int J Pediatr Otorhinolaryngol.* Oct;113:218-222 *Impact factor: 1,305*

19. Malakasioti G, Alexopoulos E, Befani CD, Tanou K, Varlami V, Ziogas D, **Liakos P**, Gourgoulisanis K, Kaditis A G. (2012) Oxidative stress and inflammatory markers in the exhaled breath condensate of children with OSA  
*Sleep Breath.* Sep;16(3):703-8. *Impact factor: 2,256*

20. Kostikas K, Minas M, Nikolaou E, Papaioannou AI, **Liakos P**, Gougoura S, Gourgoulisanis KI, Dinas PC, Metsios GS, Jamurtas AZ, Flouris AD, Koutedakis Y. (2013) Secondhand smoke exposure induces acutely airway acidification and oxidative stress. *Respir Med.* 107(2):172-9..

21. Kaditis A, Alexopoulos E, Ntamagka G, Chaidas K, Karathanasi A, Gougoura S, Papathanasiou AA, **Liakos P**, Zintzaras E, Gourgoulisanis K. (2010) Serum nitrite and nitrate levels in children with obstructive sleep-disordered breathing.  
*Sleep Med.*;11(3):258-62 *Impact factor: 3,43*

22. Boultsadakis A, **Liakos P**, Pitsikas N. (2010)  
The nitric oxide-releasing derivative of ferulic acid NCX 2057 antagonized delay-dependent and scopolamine-induced performance deficits in a recognition memory task in the rat.  
*Prog Neuropsychopharmacol Biol Psychiatry* 34:5-9 *Impact factor: 2.877*

23. Gougoura S, **Liakos P**, Koukoulis G.N. (2010) Effect of CRH on NO bioavailability, ROS production, and antioxidant defense systems in endothelial EAhy926 cells  
*Free Radical Research.* 44: 803-12 *Impact factor: 2,805*

#### Study of steroidogenesis and adrenal carcinomas

24. **Liakos P**, Lenz D., Bernhardt R., Feige JJ., Defaye G. (2003)  
Transforming Growth factor  $\beta$ 1 inhibits aldosterone and cortisol production in human adrenocortical carcinoma cell line NCI-H295R through inhibition of CYP11B1 and CYP11B2 expression.  
*J. Endocrinol* 176(1)69-82 Jan *Impact factor: 3.023*

25. Chabre O., Portrat-Doyen S., Chaffanjon P., Vivier J., **Liakos P**, Labat-Moleur F., Chambaz E., Morel Y. and Defaye G. (2000)  
Bilateral laparoscopic adrenalectomy for congenital adrenal hyperplasia with severe hypertension, resulting from two novel mutations in splice donor sites of CYP11B1  
*J. Clin. Endocrinol. Metab.* 85 (11): 4060-8. *Impact factor: 5,447*

26. Gaillard I., Keramidas M., **Liakos P**, Vilgrain I., Feige J.J. & Vittet D. (2000)  
ACTH-regulated expression of vascular endothelial growth factor in adult bovine adrenal cortex: A possible role in the maintenance of the microvasculature.  
*J. Cell. Physiol.* Nov 185 (2): 226-34. *Impact factor: 2,704*

27. **Liakos P**, Chambaz E.M., Feige J.J. & Defaye G. (2000)



Expression and regulation of melanocortin receptors 5 (MC5-R) in the bovine adrenal cortex. **Mol. Cell. Endocrinol.** 159: 99-107. *Impact factor: 2,34*

28. **Liakos.P.**, Feige J.J., Chambaz.E.M. & Defaye.G. (1998)  
Expression of ACTH receptors (MC2-R and MC5-R) in bovine adrenocortical cells from the glomerulosa and fasciculata-reticularis zones.  
**Endocr Res.** 24(3-4): 427-32. *Impact factor: 1,258*

29. Chabre.O, **Liakos.P.**, Vivier.J, Chaffanjon.P, Labat-Moleur.F, Martinie.M., Bottari.S, Bachelot.I, Chambaz.E.M, Defaye.G.& Feige.J.J. (1998).  
Cushing's syndrome due to a gastric inhibitory polypeptide-dependent adrenal adenoma: insights into hormonal control of adrenocortical tumorigenesis.  
**J. Clin. Endocrinol. Metab.** 83:3134-3143. *Impact factor: 5,641 /*

30. Chabre.O, **Liakos.P.**, Vivier.J, Bottari.S, Bachelot.I, Chambaz.E.M, Defaye.G. & Feige.J.J. (1998).Gastric inhibitory peptide (GIP) stimulates cortisol secretion, cAMP production and DNA synthesis in an adrenal adenoma responsible for food-dependent Cushing's syndrome.  
**Endocr Res.** 24(3-4): 851-856. *Impact factor: 1,258*

31. **Liakos.P.**, Bourmeyster.N., Defaye.G., Chambaz.E.M. & Bottari.S. (1997).  
Angiotensin II AT1 and AT2 receptors both inhibit bFGF induced proliferation of bovine adrenocortical cells.  
**Am. J. Physiology** 273: C1324-1334. *Impact factor: 3,077*

32. Galtier A., **Liakos.P.**, Keramidas.M., Feige.J.J., Chambaz.E.M. & Defaye.G. (1996). ACTH, angiotensin II and TGF $\beta$  participate in the regulation of steroidogenesis in bovine adrenal glomerulosa cells. **Endocr Res** 22(4), 607-612. *Impact factor: 1,258*

#### **Other subjects**

33. Bouliaris K, Asproдини E, **Liakos P**, Diamantis A, Koukoulis G, **Befani C**, Tzika S, Tepetes K. (2019) Adhesion Prevention to Polypropylene Meshes Using Combined Icodextrin Four Percent and Dimetindene Maleate.  
**J Surg Res.** Feb;234:325-333. *Impact factor:2,18*

34. Petinaki E., Kontos F., Maniatis A.N., Spiliopoulou I., **Liakos P** (2006) Emergence of Enterococcus faecalis susceptible to quinupristin/dalfopristin in Greece  
**Int. J Antimicrob Agents**;28 (2): 153-156 *Impact factor: 2.221*

35. #Stakias N, #**Liakos P**, Tsiapali E, Goutou M., Koukouli G N. (2006) Lower prevalence of Epsilon 4 Allele of Apolipoprotein E Gene in longer lived individuals of Hellenic origin. ( οι δύο πρώτοι συγγραφείς συνέβαλαν ισότιμα στην εργασία)  
**J Gerontol A Biol Sci Med Sci.** 61(12):1228-31 *Impact factor: 4.12*

36. Konstantinidis D., Koliakos G., Vafia K., **Liakos P.**, Bantekas C., Trachana V. and Kaloyianni M. (2006)  
Inhibition of the Na<sup>+</sup>-H<sup>+</sup> exchanger isoform-1 and the extracellular signal-regulated kinase induces apoptosis: a time course of events.  
**Cell Physiol Biochem** ;18(4-5):211-22. *Impact factor: 3.558*

37. Konstas AG, Koliakos GG, Karabatsas CH, **Liakos P**, Schlotzer-Schrehardt U, Georgiadis N, Ritch R. (2006). Latanoprost therapy reduces the levels of TGF beta 1 and gelatinases in the aqueous humour



of patients with exfoliative glaucoma.

*Exp Eye Res. Feb;82(2):319-22.*

*Impact factor: 2.776*

38. Raikos N., Tsoukali H., **Liakos P.**, Njau SN., Psaroulis D. (2003)

The Role of alcohols and drugs in fatally injured drivers in Northern Greece: a 3 years study (Sept 1999-Aug 2002). *The International Association of Forensic Toxicologists (TIAFT) 2003 (πλήρης εργασία με κριτές )*

*Impact factor: -*

39. Kaloyianni, M., Tsagias, N., **Liakos, P.**, Zolota Z., Christophorides, E. & Koliakos, G. (2004)

Stimulation of Na<sup>+</sup>/H<sup>+</sup> antiport and pyruvate kinase activities by high glucose concentration in human erythrocytes.

*Mol Cells. Jun 30;17(3):415-21.*

*Impact factor: 1.416*