

# CURICULUM VITAE GEORGATSOU ELENI 2012

## PERSONAL DATA

**Name:** Georgatsou Eleni

**Date of birth:** 24/12/1960

**Family situation:** Divorced, two children

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## STUDIES-TITLES

- 1978-1983: Diploma in Chemistry, School of Physical Sciences, Aristotle University of Thessaloniki, Greece.
- 1983-1984: D.E.A (Diplôme d'études approfondies) in Biochemistry (option: molecular biology and development of eukaryotic organisms). Université ParisVII, Paris, France.
- 1984-1990: Thèse de doctorat in Biochemistry (option: molecular biology and development of eukaryotic organisms). Université ParisVII, Paris, France.
- 1990-1994: Post-doctoral student, Laboratory of Yeast Genetics, IMBB (Institute of Molecular Biology and Biotechnology) Crete, Greece.

## PROFESSIONAL ACTIVITY

- 1994-1998: Research assistant, Laboratory of Yeast Genetics, IMBB (Institute of Molecular Biology and Biotechnology) Crete, Greece.
- 1998-present: Assistant Professor of Biochemistry-Molecular Biology, Department of Medicine, University of Thessaly, Greece

## RESEARCH ACTIVITIES

- **Laboratory of Immunogenetics, Institut Pasteur, Paris, France (1983-1990)**

-1983-1984: D.E.A. "Preliminary correlations between the nucleotide divergence and the phylogenetic and functional differentiation of the duplication products of the C4 gene"

-1984-1990: These de doctorat "Mechanisms of the regulation of expression of the mouse C4-Slp gene hormone-dependent isotype of the fourth complement component, C4"

- **Laboratory of Yeast Genetics, IMBB, Crete, Grece (1990-1997)**

1990: Cloning and identification of a proteasomal subunit expressing *Sacharomyces cerevisiae* (S.c.) gene, PUP2

-1991-1992: Study of the possible involvement of the elongation step of protein synthesis in the "general control of aa biosynthesis" in S. c.

-1993-1997: Metal homeostasis in S.c.: regulation of expression of the FRE (Ferric Reductase) genes and their role in iron and copper uptake.

- **Laboratory of Biochemistry, School of Medicine, University of Thessaly, Larissa, Grece (1998-present)**

-Cellular response to hypoxia: molecular interactions of Hypoxia Inducible Factor 1a (HIF-1a).

-Specific molecular interactions of SRPK1a, a newly identified member of the SR kinase family: study of the functional role of its interaction with a nuclear matrix protein, SAFB.

## TEACHING ACTIVITIES

- **1998- present:** Courses of "Biochemistry I" and "Biochemistry II", Department of Medicine, University of Thessaly, Greece
- **1999-2001:** Organisation and teaching of the courses of "Molecular Biology - Gene Expression and protein synthesis" and "Biotechnology", ΠΣΕ "Medical Biochemistry", University of Thessaly, Greece
- **2001:** Course of "Biochemistry II", Department of Biochemistry & Biotechnology, University of Thessaly, Grece
- **2004-present:** Course of "Cell signaling and regulation of gene expression" Program of Postgraduate Studies "Clinical Applications of Molecular Medicine", Medical School, University of Thessaly, Greece
- **2004-present:** Course of "Clinical Biochemistry" Department of Medicine, University of Thessaly, Greece

## PHD THESES

Three as supervisor (one on HIF-1, two on SRPKs), ten as a member of the three-membered advisory committee.

## FUNDING

- -Scientific Responsible of Collaborating Laboratory (Laboratory of Biochemistry, Department of Medicine, University of Thessaly) in the programme "ΤΙΕΝΕΔ 1999" (General Secretary of Research and Technology, Hellas) (P.I.: D.Synetos) 18.000.000 Drs for 18 months.

- -Participant in the program “ΠΕΝΕΑ 2001” (General Secretary of Research and Technology, Hellas) Title: “Molecular mechanisms of the hypoxia response”. (P.I.: S. Bonanou) 64.000.000 Drs for 3 years
- -Principle investigator of the program “ΙΡΑΚΛΕΙΤΟΣ” (Ministry of Education) Title: “The role of SR protein kinases in gene expression”(P.I.: E. Georgatsou) 33.600 Euro for three years
- -Participant in the program “PYTHAGORAS” (Ministry of Education). Title: “Study of the transcription factor HIF-1 and its role in iron metabolism” (Responsible: G. Simos) 95.000 Euro for 30 months.
- -Principle investigator in the yearly program of basic research support of the Research Committee of the University of Thessaly (2011). Title: “ Study of the structural and functional interaction between the SR protein kinases SRPK and the nuclear matrix proteins SAF-B under conditions of metabolic stress” 5000 Euro for 12 months.
- - Co-investigator in the program “Thalis 2011” (Ministry of Education). Title: “The new Biology of Intrinsically Disordered Proteins: A targeted, multidisciplinary analysis of IDP structure, function and properties in real time and true cellular conditions” (Responsible: S. Georgatos) 130.000 Euro for 36 months.

## REVIEWER FOR SCIENTIFIC JOURNALS

Oncogene: 2008

JZUS-B: 2010

Experimental Cell Research: 2012

FEBS Letters: 2012

## PUBLICATIONS

1. Lévi-Strauss, M., **Georgatsou, E.**, Tosi, M., and T. Meo (1985) Gene specific probes demonstrate selective duplications of the C4-Slp gene in the H-2S alleles associated with a testosterone-independent expression of this isotype. *Immunogenetics* **21**, 397-401. **IF:3.352, C:11**
2. Bénaroch, P., **Georgatsou E.**, and G. Borbenave (1988) Cellular induction of chronic allotype suppression of IgG2a in Igh<sup>b/b</sup> homozygous mice and its abrogation by in vivo treatment with anti-CD8 monoclonal antibody. *J. Exp. Med.* **168**, 891-904. **IF:15.572, C:28**
3. **Georgatsou, E.**, Georgakopoulos, T. and G. Thireos (1992) Molecular cloning of an essential yeast gene encoding a proteasomal subunit. *FEBS Letters* **299**, 39-43. **IF:3.582, C:20**
4. Bénaroch, P., **Georgatsou, E.** and G. Bordenave (1993) T-cell induced suppression of IgG2a<sup>b</sup> expression *in vivo* leads to a large reduction of Cγ2a<sup>b</sup> mRNA levels. *J. Immunol.* **150**, 858-866. **IF:7.145, C:8**
5. **Georgatsou, E.**, Bourgarel, P., and T. Meo (1993) Male-specific expression of mouse sex-limited protein requires growth hormone, not testosterone.

*Proc. Natl. Acad. Sci. USA* **90**, 3626-3630. **IF:10.325, C:30**

**6.** Miyagoe, Y., **Georgatsou, E.**, Varin-Blanc, N., and T. Meo (1993) The androgen dependent gene C4-Slp gene is driven by a constitutively competent promoter.  
*Proc. Natl. Acad. Sci. USA* **90**, 5786-5790. **IF:10.325, C:6**

**7.** Miyagoe, Y., Galibert, M.-D., **Georgatsou, E.**, Fourel, G. and T. Meo (1994) Promoter elements of the mouse complement C4 gene critical for transcription activation and start site location.  
*J. Biol. Chem.* **269**, 8268-8279. **IF:7,666, C:18**

**8.** **Georgatsou, E.**, and D. Alexandraki (1994) Two distinctly regulated genes are required for ferric reduction, the first step of iron uptake in *Saccharomyces cerevisiae*.  
*Mol. Cell. Biol.* **14**, 3065-3073. **IF:10.724, C:177**

**9.** **Georgatsou, E.**, Mavrogiannis, L., Frangiadakis, G.S. and D. Alexandraki (1997) The yeast Fre1p/Fre2p cupric reductases facilitate copper uptake and are regulated by the copper-modulated Mac1p activator.  
*J. Biol. Chem.* **272**, 13786-13792. **IF:7.452, C:129**

**10.** **Georgatsou, E.**, and D. Alexandraki (1999) Regulated expression of the *Saccharomyces cerevisiae* Fre1p/Fre2p Fe/Cu reductase related genes.  
*Yeast.* **15**, 573-84. **IF:2.221, C:40**

**11.** Nikolakaki, E. Cohen, R., Hartman. A., Stamm, S., **Georgatsou, E.** and T. Giannakouros (2001). Cloning and characterization of an alternatively spliced form of SR protein kinase 1 that interacts specifically with Scaffold Attachment Factor-B.  
*J. Biol. Chem.* **276**, 40175-40182. **IF:7.666, C:28**

**12.** Chachami G, Paraskeva E, **Georgatsou E**, Bonanou S and G. Simos (2005). Bacterially produced human HIF-1alpha is competent for heterodimerization and specific DNA-binding.  
*Biochem Biophys Res Commun.* **331**, 464-70. **IF:2.855, C:12**

**13.** Kakavas KV, Noulas A, Chalkias C, Hatzichristodoulou, Georgiou I, **Georgatsou E** and S. Bonanou (2005) Identification of the four most common  $\beta$ -globin gene mutations in Greek  $\beta$ -thalassemic patients and carriers by PCR-SSCP: Advantages and limitations of the method.  
*J Clin Lab Anal* **19** 1-7 **IF:1.117, C:2**

**14.** Triantafyllou A., Liakos P., Tsakalof A., **Georgatsou E.**, Simos G. and S. Bonanou (2006) Cobalt induces hypoxia-inducible factor -1 $\alpha$  (HIF-1 $\alpha$ ) in HeLa cells by an iron-independent, but ROS-, PI-3K- and MAPK - dependent mechanism.  
*Free Radic Res* **40**, 847-856. **IF:2.536, C:28**

**15.** Mylonis I., Chachami G., Samiotaki M., Panayotou G., Paraskeva E., Kalousi A., **Georgatsou E.**, Bonanou S. and G. Simos (2006) Identification of MAPK Phosphorylation Sites and Their Role in the Localization and Activity of Hypoxia-inducible Factor-1 $\alpha$ .  
*J Biol Chem*, **281**, 33095-33106. **IF:5.808, C:92**

16. Triantafyllou A., Liakos P., Tsakalof A., Chachami G., Paraskeva E., Molyvdas P.A., **Georgatsou E.**, Simos G. and S. Bonanou (2007) The flavonoid quercetin induces HIF-1 $\alpha$  expression and inhibits cell proliferation by depleting iron. *Free Radic Res* **41**, 342-56. **IF:2.925, C:22**

17. Lyberopoulou A., Venieris E., Mylonis I., Chachami G., Pappas I., Simos G., Bonanou S. and **E. Georgatsou** (2007) MgcRacGAP interacts with HIF-1 $\alpha$  and regulates its transcriptional activity. *Cellular Physiology and Biochemistry* **20**, 995-1006. **IF:4.103, C:9**

18. Tsianou D, Nikolakaki E, Tzitzira A, Bonanou S., Giannakouros T. and **E. Georgatsou** (2009) The enzymatic activity of SR protein kinases 1 and 1a is negatively affected by interaction with scaffold attachment factors B1 and 2 *FEBS J.* **276**, 5212-5227. **IF:3.421, C: 4**

19. Peidis P, Voukkalis N, Aggelidou E, **Georgatsou E**, Hadzopoulou-Cladaras M, Scott RE, Nikolakaki E and T. Giannakouros (2010) SAFB1 interacts with and suppresses the transcriptional activity of p53 *FEBS Letters* **585**, 78-84 **IF:3.601, C:1**

20. Lyberopoulou A, Mylonis I, Papachristos G, Sagris D, Kalousi A, Befani C, Liakos P, Simos G, and **E Georgatsou**. MgcRacGAP, a cytoskeleton regulator, inhibits HIF-1 transcriptional activity by blocking its dimerization. *BBA-Molecular Cell Research*, in press **IF: 5.538**

#### **Άρθρα ανασκόπησης**

21. Tosi, M., Lévi-Strauss, M., **Georgatsou, E.**, Amor, M., and T. Meo (1985) Duplication of complement and non-complement genes of the H-2S region: evolutionary aspects of the C4 isotypes and molecular analysis of their expression variants. *Immunol.Rev.* **87**, 151-183. **IF:10.758, C:32**

22. Giannakouros T, Nikolakaki E, Mylonis I and **E. Georgatsou** (2011) Serine-arginine protein kinases: A small protein kinase family with a large cellular presence *FEBS J.* **278**, 570-586 (invited review) **IF:3.125, C:9**

#### **Κεφάλαια σε βιβλία**

23. Tosi M., Lévi-Strauss M., **Georgatsou E.** and T. Meo (1985) Organisation and evolution of the mouse complement C4 isotypes. *In: "Protides of the Biological Fluids", H. Peeters (ed.), Pergamon Press, pp 143-146*

**Συνολικός IF: 124.356**

**Μέσος όρος IF: 5.41**

**Σύνολο αναφορών: 706**

**Παράγοντας h: 12 (SCI)**