

## CURRICULUM VITAE

**Name:** Ilias Mylonis

**Place of Birth:** Larissa

**Current position:** Lecturer  
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### EDUCATION

July 1997: Degree in Chemistry, Department of Chemistry, Aristotle University of Thessaloniki

November 2003: Ph.D. in Biochemistry, Department of Chemistry, Aristotle University of Thessaloniki

### PROFESSIONAL POSITIONS

May 2005- July 2010: Research and teaching assistant for Medical Chemistry and Biochemistry at the School of Medicine, Univ. of Thessaly and as part time teaching assistant for Enzymology at the Dept. of Biochemistry and Biotechnology, Univ. of Thessaly.

June 2010: Lecturer at the Lab. of Biochemistry, School of Medicine, Univ. of Thessaly.

### RESEARCH

May 1998 – September 2003: Ph.D. student in the Lab. of Biochemistry, Dept. of Chemistry, Univ. of Thessaloniki. Title: “Investigation and characterization of a protein kinase that phosphorylates the repeating arginine/serine motifs of the N-terminal domain of Lamin B Receptor”. Supervisor Assoc. Prof. T. Giannakouros.

January 2002 – June 2003: Research work in the Lab. of Dr. Paolo Sassone-Corsi at the Institute of Genetics and Molecular and Cellular Biology (IGBMC) Illkirch, France, on: “Protein interactions between protamines and nuclear envelope proteins during

spermiogenesis”.

May 2005 - now:

Postdoctoral research on: “Investigation of the role of post-translational modifications in HIF-1 $\alpha$  activity and nucleocytoplasmic localization” in the Lab. of Biochemistry, Dept. of Medicine, Univ. of Thessaly. Supervisor Assoc. Prof. G. Simos.

## ADDITIONAL INFORMATION

- Member of the Association of Greek Chemists.
- Member of the Hellenic Society of Biochemistry and Molecular Biology.

## LIST OF PUBLICATIONS

1. Mylonis I, Sembongi H, Befani C, Liakos P, Siniosoglou S & Simos G (2012) Hypoxia causes triglyceride accumulation via HIF-1-mediated stimulation of lipin 1 expression. *J Cell Sci* **125**, 3485-3493
2. Lakka A, Mylonis I, Bonanou S, Simos G & Tsakalof A (2011) Isolation of hypoxia-inducible factor 1 (HIF-1) inhibitors from frankincense using a molecularly imprinted polymer. *Invest New Drugs* **29**, 1081-1089
3. Mylonis I, Lakka A, Tsakalof A & Simos G (2010) The dietary flavonoid kaempferol effectively inhibits HIF-1 activity and hepatoma cancer cell viability under hypoxic conditions. *Biochem Biophys Res Commun* **398**, 74-78.
4. Kalousi A\*, Mylonis I\*, Politou AS, Chachami G, Paraskeva E & Simos G (2010) Casein kinase 1 regulates human hypoxia-inducible factor HIF-1. *J Cell Sci* **123**, 2976-2986. \*Equal contribution
5. Ioannou M, Mylonis I, Kouvaras E, Papamichali R, Daponte A, Paraskeva E, Simos G & Koukoulis GK (2010) Validated analysis of HIF-1 $\alpha$  expression in cancer cells using a controlled and comparative immunoassay. *Oncol Rep* **24**, 161-169.
6. Ioannou M, Sourli F, Mylonis I, Barbanis S, Papamichali R, Kouvaras E, Zafiriou E, Siomou P, Klimi E, Simos G, Roussaki-Schulze AV & Koukoulis G (2009) Increased HIF-1  $\alpha$  immunostaining in psoriasis compared to psoriasiform dermatitides. *J Cutan Pathol* **36**, 1255-1261.
7. Ioannou M, Papamichali R, Kouvaras E, Mylonis I, Vageli D, Kerenidou T, Barbanis S, Daponte A, Simos G, Gourgoulis K & Koukoulis GK (2009) Hypoxia inducible factor-1  $\alpha$  and vascular endothelial growth factor in biopsies of small cell lung carcinoma. *Lung* **187**, 321-329.
8. Triantafyllou A\*, Mylonis I\*, Simos G, Bonanou S & Tsakalof A (2008) Flavonoids induce HIF-1 $\alpha$  but impair its nuclear accumulation and activity. *Free Radic Biol Med* **44**, 657-670. \*Equal contribution

9. Mylonis I, Chachami G, Paraskeva E & Simos G (2008) Atypical CRM1-dependent nuclear export signal mediates regulation of hypoxia-inducible factor-1alpha by MAPK. *J Biol Chem* **283**, 27620-27627.
10. Daponte A, Ioannou M, Mylonis I, Simos G, Minas M, Messinis IE & Koukoulis G (2008) Prognostic significance of Hypoxia-Inducible Factor 1 alpha(HIF-1 alpha) expression in serous ovarian cancer: an immunohistochemical study. *BMC Cancer* **8**, 335.
11. Lyberopoulou A, Venieris E, Mylonis I, Chachami G, Pappas I, Simos G, Bonanou S & Georgatsou E (2007) MgcRacGAP interacts with HIF-1alpha and regulates its transcriptional activity. *Cell Physiol Biochem* **20**, 995-1006.
12. Mylonis I, Chachami G, Samiotaki M, Panayotou G, Paraskeva E, Kalousi A, Georgatsou E, Bonanou S & Simos G (2006) Identification of MAPK phosphorylation sites and their role in the localization and activity of hypoxia-inducible factor-1alpha. *J Biol Chem* **281**, 33095-33106.
13. Mylonis I, Drosou V, Brancorsini S, Nikolakaki E, Sassone-Corsi P & Giannakouros T (2004) Temporal association of protamine 1 with the inner nuclear membrane protein lamin B receptor during spermiogenesis. *J Biol Chem* **279**, 11626-11631.
14. Mylonis I & Giannakouros T (2003) Protein kinase CK2 phosphorylates and activates the SR protein-specific kinase 1. *Biochem Biophys Res Commun* **301**, 650-656.

## REVIEW ARTICLES

1. Mylonis I & Simos G (2012) The Involvement of the ERK-Hypoxia-Angiogenesis Signaling Axis and HIF-1 in Hepatocellular Carcinoma. HEPATOCELLULAR CARCINOMA – BASIC RESEARCH (Editor: Wan-Yee Lau), 253-274.
2. Giannakouros T, Nikolakaki E, Mylonis I & Georgatsou E (2011) Serine-arginine protein kinases: a small protein kinase family with a large cellular presence. *FEBS J* **278**, 570-586.