

CURRICULUM VITAE

PERSONAL DATA

Surname: **Simos**
First name: **Georgios**
Place of birth: Veroia, Greece
Nationality: Greek
Other languages: English (very good), German (good), French (poor).
Marital status: Married, one child.
Professional status: Professor of Biochemistry, School of Medicine, University of Thessaly
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EDUCATIONAL & PROFESSIONAL BACKGROUND

June 1977 Graduation from 5th Lyseum of Thessaloniki
Sept.1977-June 1978 Attendance of A-Level courses in Sevenoaks College, Kent, England.
Sept.1978-June 1981 Study in the School of Biological Sciences, University of Sussex, England.
21st July 1981 Award of the degree of Bachelor of Science, with Second Class Honours. Major Subject: Biochemistry.
Oct. 1981-May 1984 Study in the Department of Chemistry, School of Science, Aristotelian University of Thessaloniki.
9th May 1984 Award of the Degree of Chemistry with grade "Very Good" (7.69).
June 1984-Feb. 1988 Doctoral Thesis research in the lab. of Biochemistry, Dept. of Chemistry, Aristotelian University of Thessaloniki (A.U.TH), under the supervision of Prof. J.G. Georgatsos. Title of Thesis: "Purification and study of a β -glucosidase and a β -galactosidase from barley meal. Application of the enzymes in the hydrolysis of milk and whey lactose."
Mar.1988-Nov. 1989 Military service.
21st May 1990 Award of Doctorate Diploma with grade "Excellent".
Aug. 1990-Sep. 1994 Post-doctoral fellow in the group of Dr S. D. Georgatos in the Program of Cell Biology, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany. Title of project: "Molecular interactions between the nuclear lamin proteins, the nuclear membrane and the chromatin network"
Oct. 1994 - Sep. 1995 Post-doctoral fellow in the group of Dr E. C. Hurt in the Program of Cell Biology, EMBL. Project title: "Genetic and biochemical analysis of the nuclear pores in the yeast *S. cerevisiae*."
Sep. 1995-Feb. 2001 Habilitation in the Biochemie-Zentrum Heidelberg (Prof. Dr. E.C. Hurt), Faculty of Medicine, Univ. of Heidelberg. Habilitation Subject: "Investigation of biogenesis and nucleocytoplasmic transport of RNA".
19th April 2000 Election to the position of Assistant Professor of Biochemistry, Medical School, University of Thessaly, Greece (appointed at 11.4.2001).
11th December 2003 "Habilitation in Biochemistry" award by the Faculty of Medicine, University of Heidelberg
23rd June 2004 Election to the permanent position (Tenure) of Assist. Prof. of Biochemistry.
20th December 2006 Election to the position of Associate Professor of Biochemistry (appointed at 30.10.2007).
Since October 2007 Collaborating Researcher in the Institute of Biomedical Research and Technology (BIOMED) of the Centre for Research and Technology – Thessaly (CE.RE.TE.TH) and leader of the 'Biochemistry of Cellular Homeostasis (BIOCELHOM)' group.
Since March 2009 Director of the Laboratory of Biochemistry, School of Medicine, University of Thessaly
7th March 2012 Election to the position of Professor of Biochemistry (appointed at 17.7.2012).

FELLOWSHIPS – RESEARCH GRANTS

1997-1981 Schilitsi Foundation Scholarship for studies in Great Britain

1990-1992	EMBO long-term fellowship for post-doctoral research
1993-1994	Research bursary by the Commission of the European Communities (BIOMED I)
1997-2000	Funding by the German Research Council (DFG), 520.600 DM
2002-2004	Funding by G.S.R.T.: Greek-French Collaboration, 14.000 €, Greek-German Collaboration, 29.600 €
2003-2005	Participation in P.E.N.E.D. 2001 (PI: S. Bonanou, 185.000 €)
2004-2007	Funding by G.S.R.T.: E.P.A.N. 2003, 102.000 €
2004-2005	Funding by University of Thessaly Research Committee: 8.800 €
2005-2008	Funding by Ministry of Education: IRAKLITOS, 34.500 €, PYTHAGORAS II, 80.000 €
2011-2013	Funding by G.S.R.T.: SYNERGASIA 2009, 72.000 €

TEACHING EXPERIENCE

1995-2000	Teaching of Biochemistry, Medical School, Univ. Heidelberg
2001-2002	Coordinator: course “Modern Biochemistry Topics”, 4 th year of the Elective Studies Program “Medical Biochemistry.
2001-2004	Coordinator: 4th semester optional course “Molecular mechanisms of Medical Cell Biology” for students of Medicine.
2004-2009	Coordinator: course “Cellular Signaling and Regulation of Gene Expression” in the Postgraduate Studies Program “Clinical Applications of Molecular Medicine”.
Since 2001	Participation in teaching of “Medical Chemistry” (Coordinator 2001-4), “Biochemistry I” (Coordinator since 2008) and “Biochemistry II” in the 1 st , 2 nd and 3 rd semesters, respectively, of Medicine.

ACADEMIC SUPERVISION

I have directly supervised

- the Diploma Theses of two students of the Elective Studies Program “Medical Biochemistry”, three students of the “Biochemistry & Biotechnology” Department and two students of the “Clinical Applications of Molecular Medicine” Postgraduate Program,
- seven successfully completed PhD Theses by K. Hellmuth, H. Grosshans, K. Galani (in Heidelberg University), G. Chachami, E. Karanasios, F. Psachoulia, A. Kalousi (in Univ. of Thessaly) and one ongoing (M. Kourti, Univ. Thessaly),
- four post-doctoral researchers (G. Braliou, I. Mylonis, G. Chachami, A. Lyberopoulou).

OTHER ACADEMIC ACTIVITIES

- Participation in 34 International Scientific Conferences, Workshops or Schools.
- Delivery of 27 lectures as invited speaker in National and International Institutes.
- Reviewer of scientific articles for the journals: J. Cell Biol., J. Biol. Chem., FEBS Lett., FEMS Microbiol. Lett, TIBS, Biochem. J., J. Cell Sci., PNAS, Curr. Genet., Acta Pharm. Sin., Cell. Mol. Biol. Lett., Mol. Biol. Cell, Biochem. Cell Biol., Mol. Gen. Genom. and Oncogene.
- Reviewer of Research grant proposal for: HFSP Career Development Awards, HFSP Short Term Fellowships, Foundation of Science and Technology of Portugal, Agence Nationale de la Recherche (France), Croatian Science Foundation, Research Committee of Univ. Ioannina, Greek Ministry of Education.
- Vice-Director and member of the Coordinating Committee of the Postgraduate Studies Program “Clinical Applications of Molecular Medicine” (2004-6).
- Member of the Internal Evaluation Committee (OMEA) of the School of Medicine, University of Thessaly
- Member of the Management Committee (National Representative) of the European COST Action “HypoxiaNet” (TD0901).

RESEARCH PUBLICATIONS

I have co-authored a total of **68 publications**:

58 original research papers in peer-reviewed journals (**10 as first** and **21 as last** author),

7 review articles and **3 book chapters**.

My publications have a **total impact factor of 418** and have received over **2.620 citations** (October 2012)

***h-index*: 28**

I have also co-authored **83 presentations** in national and international scientific conferences.

LIST OF SELECTED PUBLICATIONS

- **Simos G** and SD Georgatos (1992). The inner nuclear membrane protein p58 associates in vivo with a p58 kinase and the nuclear lamins. *EMBO J.* **11**, 4027.
- **Simos G**, Maison C and SD Georgatos (1996). Characterization of p18, a component of the lamin B receptor complex and a new integral membrane protein of the avian erythrocyte nuclear envelope. *J. Biol. Chem.* **271**, 12617.
- **Simos G**, Tekotte H, Grosjean H, Segref A, Sharma K, Tollervey D and EC Hurt (1996). Nuclear pore proteins are involved in the biogenesis of functional tRNA. *EMBO J.* **15**, 2270.
- **Simos G**, Segref A, Fasiolo F, Hellmuth K, Shevchenko A, Mann M and EC Hurt (1996). The yeast protein Arc1p binds to tRNA and functions as a cofactor for the methionyl- and glutamyl-tRNA synthetases. *EMBO J.* **15**, 5437.
- **Simos G**, Sauer A, Fasiolo F and EC Hurt (1998). A conserved domain within Arc1p delivers tRNA to aminoacyl-tRNA synthetases. *Mol. Cell* **1**, 235.
- Hellmuth K, Lau D, Bischoff R, Künzler M, Hurt EC and **G Simos** (1998). Yeast Los1p has properties of an exportin-like nucleocytoplasmic transport factor for tRNA. *Mol. Cell. Biol.* **18**, 6374.
- Hurt E, Hannus S, Schmelzl B, Lau D, Tollervey D and **G Simos** (1999). A novel in vivo assay reveals inhibition of ribosomal nuclear export in Ran-cycle and nucleoporin mutants. *J. Cell Biol.* **144**, 389.
- Grosshans H, Hurt E and **G Simos** (2000). An aminoacylation-dependent tRNA export pathway in yeast. *Genes & Development* **14**, 830.
- Deinert K, Fasiolo F, Hurt E and **G Simos** (2001). Arc1p organizes the yeast aminoacyl-tRNA synthetase complex and stabilizes its interaction with the cognate tRNAs. *J. Biol. Chem.* **276**, 6000.
- Grosshans H, Deinert K, Hurt E and **G Simos** (2001). Biogenesis of the signal recognition particle (SRP) involves import of SRP proteins into the nucleolus, assembly with the SRP-RNA and Xpo1p-mediated export. *J. Cell Biol.* **153**, 745.
- Galani K, Grosshans H, Deinert K, Hurt EC and **G Simos** (2001). The intracellular location of two aminoacyl-tRNA synthetases depends on complex formation with Arc1p. *EMBO J.* **20**, 6889.
- Grosshans H, Lecointe F, Grosjean H, Hurt E and **G Simos** (2001). Pus1p-dependent tRNA pseudouridylation becomes essential when tRNA biogenesis is compromised in yeast. *J. Biol. Chem.* **276**, 46333.
- Galani K, Hurt E and **G Simos** (2005). The tRNA aminoacylation co-factor Arc1p is excluded from the nucleus by an Xpo1p-dependent mechanism. *FEBS Lett.* **579**, 969.
- 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 α . *J. Biol. Chem.* **281**, 33095.
- Karanasios E, Simader H, Panayotou G, Suck D and **G Simos** (2007) Molecular determinants of the yeast Arc1p/aminoacyl-tRNA synthetase complex assembly. *J. Mol. Biol.* **374**, 1077.
- Karanasios E, Boleti H and **G Simos** (2008) Incorporation of the Arc1p tRNA-binding domain to the catalytic core of MetRS can functionally replace the yeast Arc1p/MetRS complex. *J. Mol. Biol.* **381**, 763.
- Braliou GG, Verga Falzacappa MV, Chachami G, Casanovas G, Muckenthaler MU and **G Simos** (2008) 2-Oxoglutarate-dependent oxygenases control hepcidin gene expression. *J. Hepatology* **48**, 801.
- Mylonis I., Chachami G., Paraskeva E. and **G. Simos** (2008) Atypical CRM1-dependent nuclear export signal mediates regulation of hypoxia-inducible factor-1alpha by MAPK. *J. Biol. Chem.* **283**, 27620.
- Kalousi A, Mylonis I, Politou A, Chachami G, Paraskeva E and **G Simos** (2010) Casein kinase 1 regulates human hypoxia-inducible factor HIF-1. *J Cell Sci.* **123**, 2976.
- Mylonis I, Lakka A, Tsakalof A and **G Simos** (2010). The dietary flavonoid kaempferol effectively inhibits HIF-1 activity and hepatoma cancer cell viability under hypoxic conditions. *Biochem. Biophys. Res. Commun.* **398**, 74.
- Karanasios E and **G Simos** (2010) Building arks for tRNA: Structure and function of the Arc1p family of non-catalytic tRNA-binding proteins. *FEBS Letters* **584**, 3842.
- Papadakis A, Paraskeva E, Peidis P, Muaddi H, Li S, Raptis L, Pantopoulos K, **Simos G** and A Koromilas (2010) eIF2 α kinase PKR modulates the hypoxic response by Stat3-dependent transcriptional suppression of HIF-1 α . *Cancer Res.* **70**, 7820.
- Mylonis I, Sembongi H, Befani C, Liakos P, Siniosoglou S and **G. Simos** (2012) Triglyceride accumulation under hypoxia involves HIF-1-dependent regulation of lipin 1. *J. Cell Sci.* **125**, 3485.