**CURRICULUM VITAE**

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**Date/Place of Birth:** **28/02/1979, Krefeld Germany**
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## CURRENT STATE

- Febr. 2020- today: Assistant Professor of Cellular Biochemistry, Laboratory of Biochemistry, Department of Medicine, School of Health Science, University of Thessaly, Greece (Permanent status since 14/6/23).

## EDUCATIONAL BACKGROUND

- October 2001: Diploma in Biology, Department of Biology, National and Kapodistrian University of Athens, Greece.
- July 2006: PhD in Biochemistry, Department of Medicine, University of Thessaly, Greece.

## PROFESSIONAL BACKGROUND

- June 2014-Febr. 2020: Lecturer of Cellular Biochemistry, Laboratory of Biochemistry, Department of Medicine, School of Health Science, University of Thessaly, Greece.
- Jan 2010 -May 2014: Postdoctoral research. Frauke Melchior Research Group, Zentrum Für Molekulare Biologie (ZMBH), University of Heidelberg.
- June 2006 - Dec2009: Postdoctoral research Department of Medicine, University of Thessaly, Larissa, Greece. Supervisor Pr. Dr. George Simos, in collaboration with the Institute of Biomedical Research and Technology (BioMed), Larissa, Greece.
- June 2006 - Dec2009: Teaching assistant in the undergraduate courses of Biochemistry (Medical Dep. Larissa Greece) and Clinical Biochemistry (Biochemistry and Biotechnology Dep. Larissa, Greece)
- July 2004 – August 2004: Research as part of PhD thesis, as visiting PhD student, in the Laboratory of Pr. Dr. Dirk Görlich at the ZMBH, University of Heidelberg Germany.
- September 2002-June 2006: Ph.D. thesis in the Laboratories of Biochemistry and Physiology, Department of Medicine, University of Thessaly, Larissa, Greece. Thesis Title: "*Activation and regulation of hypoxia inducible factor 1α (HIF-1α) in vitro and in primary airway smooth muscle cells*." Supervisor Pr. Dr. George Simos.

Career Breaks

- Jul. 2011-Dec 2012: Career break for Maternity and child raise reasons.
- Jul. 2016-Sept 2017: Career break for Maternity and child raise reasons.

## RESEARCH INTERESTS:

- Investigation of the molecular mechanisms induced under hypoxia and the role of HIF-1 (Hypoxia Inducible Factor 1).
- Investigation of the role of sumoylation of proteins in the cellular response to hypoxia.
- Investigation of transcription factor TFAP2a in the context of hypoxia.

## FELLOWSHIPS:

- Nov.2002-Oct.2005: -PhD fellowship from the Greek Secretariat for Research and Technology (PENED 2001).
- July-2007: Travel fellowship from FEBS society for participation at the FEBS Young Scientist Forum and 32 FEBS Congress, 5-12 July 2007 Vienna, Austria.
- Oct 2010-May 2014: 2year Postdoctoral fellowship from the Alexander von Humboldt foundation, Germany. 1year Fellowship of the Center for Molecular Biology, University of Heidelberg (ZMBH),

Germany

**GRANTS:**

- 2002-2005: PENED 2001 (Ο1ΕΔ121, Coordinator: S. Bonanou-Tzedaki): Participant as PhD candidate.
- 2005-2006: Pythagoras II (52211.01, Coordinator G. Simos): Participant as PostDoc Researcher.
- 2014-2015: Aristeia II (Coordinator G. Simos): Participant as Member of the Research Group.
- 2018-2021: EPANEK (Coordinator G. Simos): Participant as Member of the Research Group.
- 2019: Research Committee of the University of Thessaly: Coordinator G. Chachami (4000E)
- 2020-2023: ELIDEK (Greek Institute of Research and Innovation): Coordinator G. Chachami (160000E)
- 2022: Research Committee of the University of Thessaly: Coordinator G. Chachami (4000E)

**OTHER ACADEMIC ACTIVITIES**

- Participation in 20 international and 25 national conferences.
- Reviewer (ad hoc reviewer) of scientific articles for Bioscience Reports journal, Molecules, Cells, Cancers, Biological Chemistry, Biomolecules, Biophysical Reports, In Vitro Cellular & Developmental Biology, International Journal of Molecular Science.
- Co-editor of Cancers Journal Special Issue "Inhibition of HIFs as an Anti-Cancer Strategy"
- Member of the organizing Committee of the 69$^{th}$ meeting of the Hellenic Society of Biochemistry & Molecular biology, Larissa 2018.
- 2002-today: Member of the Hellenic society of Biochemistry and Molecular Biology (HSBMB), a FEBS constituent society.
- 2021-today: Member of the Proteocure COST European action as MC representative for Greece and Core group member.

**Linguistic proficiency:** English: advanced knowledge /German: A basic level knowledge.

**Total impact factor: 125,756**
**Total citations according to Scopus: 1094**
***h* index according to Scopus: 16**

**Total citations according to Google Scholar: 1716**
***h* index according to Google Scholar: 18**

1. **Chachami, G**., Simos, G., Hatziefthimiou, A., Bonanou, S., Molyvdas, P. A., and Paraskeva, E. (2004) Cobalt induces hypoxia-inducible factor-1alpha expression in airway smooth muscle cells by a reactive oxygen species- and PI3K-dependent mechanism. *American Journal of Respiratory Cell and Molecular Biology* 31, 544-551 **(IF: 4,593)**

2. **Chachami, G**., Paraskeva, E., Georgatsou, E., Bonanou, S., and Simos, G. (2005) Bacterially produced human HIF-1alpha is competent for heterodimerization and specific DNA-binding. *Biochemical and Biophysical Research Communications* 331, 464-470 **(IF: 2,855)**

3. Mylonis, I., **Chachami, G**., Samiotaki, M., Panayotou, G., Paraskeva, E., Kalousi, A., Georgatsou, E., Bonanou, S., and Simos, G. (2006) Identification of MAPK phosphorylation sites and their role in the localization and activity of hypoxia-inducible factor-1α. *Journal of Biological Chemistry* 281, 33095-33106 **(IF: 5,808)**

4. 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 hypoxia-inducible factor-1α and inhibits cell proliferation by depleting intracellular iron. *Free Radical Research* 41, 342-356 **(IF: 2,536)**

5. Papagianni, M., Hatziefthimiou, A., **Chachami, G**., Gourgoulianis, K., Molyvdas, P. A., and Paraskeva, E. (2007) Insulin causes a transient induction of proliferation via activation of the PI3-kinase pathway in airway smooth muscle cells. *Experimental and Clinical Endocrinology & Diabetes,* 115, 118-123 **(IF: 1,356)**

6. Lyberopoulou, A., Venieris, E., Mylonis, I., **Chachami, G**., Pappas, I., Simos, G., Bonanou, S., and Georgatsou, E. (2007) MgcRacGAP interacts with HIF-1α and regulates its transcriptional activity. *Cellular Physiology and Biochemistry,* 20, 995-1006 **(IF: 3,558)**

7. **Chachami, G**., Hatziefthimiou, A., Liakos, P., Ioannou, M. G., Koukoulis, G. K., 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-1α and airway responsiveness to ACh. *American Journal of Physiology.* 293, L913-922 **(IF: 4,25)**

8. Braliou, G. G., Verga Falzacappa, M. V., **Chachami, G.,** Casanovas, G., Muckenthaler, M. U., and Simos, G. (2008) 2-Oxoglutarate-dependent oxygenases control hepcidin gene expression. *Journal of Hepatology* 48, 801-810 **(IF: 6,073)**

9. Mylonis, I., **Chachami, G.,** Paraskeva, E., and Simos, G. (2008) Atypical CRM1-dependent nuclear export signal mediates regulation of hypoxia-inducible factor-1alpha by MAPK. *Journal of Biological Chemistry* 283, 27620-27627 **(IF: 5,52)**

10. **Chachami, G.**, Paraskeva, E., Mingot, J. M., Braliou, G. G., Gorlich, D., and Simos, G. (2009) Transport of hypoxia-inducible factor HIF-1alpha into the nucleus involves importins 4 and 7. *Biochemical and Biophysical Research Communications* 390, 235-240 **(IF: 2,548)**

11 Papagianni, M., Hatziefthimiou, A., **Chachami, G.,** Gourgoulianis, K., Molyvdas, P. A., and Paraskeva, E. (2009) Inhaled insulin does not trigger lung inflammation and airway remodelling. *The European Respiratory Journal* 33, 444-445 **(IF: 5,527)**

12. Kalousi, A., Mylonis, I., Politou, A. S., **Chachami, G.,** Paraskeva, E., and Simos, G. (2010) Casein kinase 1 regulates human hypoxia-inducible factor HIF-1. *Journal of Cell Science* 123, 2976-2986 **(IF: 6,290)**

13. Darekar, S., Georgiou, K., Yurchenko, M., Yenamandra, S. P., **Chachami, G.,** Simos, G., Klein, G., and Kashuba, E. (2012) Epstein-Barr virus immortalization of human B-cells leads to stabilization of hypoxia-induced factor 1 alpha, congruent with the Warburg effect. *PloS One* 7, e42072 **(IF: 3,73)**

14. Schulz, S.*, **Chachami, G.*,** Kozaczkiewicz, L.*, Winter, U., Stankovic-Valentin, N., Haas, P., Hofmann, K., Urlaub, H., Ovaa, H., Wittbrodt, J., Meulmeester, E., and Melchior, F. (2012) Ubiquitin-specific protease-like 1 (USPL1) is a SUMO isopeptidase with essential, non-catalytic functions. *EMBO Reports* 13, 930-938 *Equally contributed authors **(IF: 7,181)**

15. **Chachami, G.**, Lyberopoulou, A., Kalousi, A., Paraskeva, E., Pantopoulos, K., and Simos, G. (2013) Oxygen-dependent secretion of a bioactive hepcidin-GFP chimera. *Biochemical and Biophysical Research Communications* 435, 540-545 **(IF: 2,71)**

16. **Chachami, G.**, Kalousi, A., Papatheodorou, L., Lyberopoulou, A., Nasikas, V., Tanimoto, K., Simos, G., Malizos, K. N., and Georgatsou, E. (2013) An association study between hypoxia inducible factor-1alpha (HIF-1alpha) polymorphisms and osteonecrosis. *PloS One* 8, e79647 **(IF: 3,534)**

17. Hutten, S., **Chachami, G.,** Winter, U., Melchior, F., and Lamond, A. I. (2014) A role for the Cajal-body-associated SUMO isopeptidase USPL1 in snRNA transcription mediated by RNA polymerase II. *Journal of Cell Science* 127, 1065-1078 **(IF: 5,432)**

18. Lyberopoulou, A.*, **Chachami, G.*,** Gatselis, N. K.*, Kyratzopoulou, E.*, Saitis, A., Gabeta, S., Eliades, P., Paraskeva, E., Zachou, K., Koukoulis, G. K., Mamalaki, A., Dalekos, G. N., and Simos, G. (2015) Low Serum Hepcidin in Patients with Autoimmune Liver Diseases. *PloS One* 10, e0135486, *Equally contributed authors **(IF: 3,057)**

19. Karagiota, A., Mylonis, I., Simos, G.*, and **Chachami, G.*** (2019) Protein phosphatase PPP3CA (calcineurin A) down-regulates hypoxia-inducible factor transcriptional activity. *Archives of Biochemistry and Biophysics* 664, 174-182, *Corresponding author **(IF: 3,118)**

20. **Chachami, G.*,** Stankovic-Valentin, N., Karagiota, A., Basagianni, A., Plessmann, U., Urlaub, H., Melchior, F., and Simos, G. (2019) Hypoxia-induced changes in SUMO conjugation affect transcriptional regulation under low oxygen. *Molecular & Cellular Proteomics,* Jun;18(6):1197-1209*,* *Corresponding author **(IF: 5,232)**

21. Filippopoulou C, Simos G, **Chachami G.** The Role of Sumoylation in the Response to Hypoxia: An Overview. *Cells.* 2020 Oct 26;9(11):2359. doi: 10.3390/cells9112359. Review. **(IF: 4,366)**

22. Mylonis I, **Chachami G**, Simos G. Specific Inhibition of HIF Activity: Can Peptides Lead the Way? *Cancers (Basel).* 2021 Jan 22;13(3):410. doi: 10.3390/cancers13030410. **(IF:6,126)**

23. Karagiota A, **Chachami G,** Paraskeva E. Lipid metabolism in cancer: The role of acylglycerolphosphate Acyltransferases (AGPATs). *Cancers (Basel).* 2022 Jan 4;14(1):228. doi: 10.3390/cancers14010228. **(IF:6,126)**

24. Karagiota A, Kanoura A, Paraskeva E, Simos G, **Chachami G.** (2022) Pyruvate dehydrogenase phosphatase 1 (PDP1) stimulates HIF activity by supporting histone acetylation under hypoxia. FEBS J. Dec 1. Online ahead of print. **(IF: 5,622/C: 1 )**

25. Yfantis A., Mylonis I.,**Chachami G**., Nikolaidis M. , Amoutzias G.D., Paraskeva E. and George Simos G. (2023) Transcriptional Response to Hypoxia: The Role of HIF-1-Associated Co-Regulators. Cells Review 12.798 **(IF: 7,666, C: 0)**

26. **Chachami, G**., and Barysch, S. V. (2023) Comparative SUMO Proteome Analysis Using Stable Isotopic Labeling by Amino Acids (SILAC). *Methods Mol Biol* 2603, 71-86 **(IF: 1,37/C: 0 )**

27. Filippopoulou, C. C. Thomé, S. Perdikari, E. Ntini, G. Simos, K. E. Bohnsack and **G. Chachami***. Hypoxia-driven deSUMOylation of EXOSC10 promotes adaptive changes in the transcriptome profile Bioarxives-https://doi.org/10.1101/2023.06.23.546038, Cellular and Molecular Life Sciences, Jan 2024, Nov 2023 accepted 10.1007/s00018-023-05035-9 *corresponding author