CURRICULUM VITAE: Thomais Papamarcaki, *Professor of Biological Chemistry*

Personal Details

Positions: ***Professor,*** Laboratory of Biological Chemistry, School of Medicine, Faculty of Health Sciences, University of Ioannina, Greece, ***Associate Member/Group Leader***, Biomedical Research Division, Foundation of Research & Technology, Ioannina, Greece

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Papamarcaki Research Group: The research of our laboratory is focused on the functional roles and mechanisms of action of histone chaperones, using *in vitro* cell cultures and the zebrafish model organism, and by employing biochemical & molecular cell biology techniques, bio-imaging & high-throughput molecular analysis.

Education

1970- 1976 High School, Chania, Crete

1976-1980 Degree in Chemistry, Chemistry Department, University of Thessaloniki

1983-1988 Ph.D in Biochemistry, Medical School, University of Ioannina, Greece

Professional Experience

2016-Today Professor, Laboratory of Biological Chemistry, School of Medicine, University of Ioannina

2006-2016 Associate Professor, Laboratory of Biological Chemistry, Medical School, University of Ioannina

1995-2006 Assistant Professor, Laboratory of Biological Chemistry, Medical School, University of Ioannina

1991-1995 Lecturer, Laboratory of Biological Chemistry, Medical School, University of Ioannina

1990-1991 Post-doctoral fellow, Cell Biology Program, European Molecular Biology Laboratory (EMBL) Heidelberg, Germany

1981-1990 Research Assistant, Medical School, University of Ioannina

Experience

1991-today Teaching of Biochemistry, Medical School, University of Ioannina

2002- today Postgraduate Program Biotechnology, University of Ioannina

Journal Reviewer: Biochem J; FEBS J; PLoS ONE, J Biol Chem; EMBO Rep, J. Cell Science, Exp. Cell Res.

Recent Research Grants

- **BIOMED 20 Program** «Ανταγωνιστικότητα, Επιχειρηματικότητα και Καινοτομία (ΕΠΑνΕΚ)», «ΕΣΠΑ 2014–2020» Project Title: The role of chromatin remodelers in the Hedgehog pathway. Funding: 80.000 euros.
- **Synergasia Program** (2013-2015) Project Title: Novel functional foods containing bioactive essential oils from Greek endemic species with health promoting properties. Total Funding: 989.350 euros. **Investigator of Ioannina team**: **T. Papamarcaki.** Funding: 100.000 euros.
- **Thalis Program** IDIPRO (2012-2015) Project 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. Project Coordinator: Spyros D. Georgatos. **Investigator of Ioannina team: T. Papamarcaki**. Funding: 40.000 Euros.
- **European Regional Development Fund** (ERDF) (2012-2015) Project Title: Development of a test system to study neurotoxicity of microcystins using the model-organism zebrafish. **Principal Investigator: T Papamarcaki**: Funding: 140.000 euros.
- **KRIPIS II Program** (2014-20120) Advanced Research Activities in Biomedical and Agro alimentary Technologies" (MIS 5002469). Funding: 32.000 euros

Selected Publications

1. Serifi I, Besta S, Karetsou Z, Giardoglou P, Beis D, Niewiadomski P and **Papamarcaki T** (2021) Targeting of SET/I2PP2A oncoprotein inhibits Gli1 transcription revealing a new modulator of Hedgehog signaling. ***Sci. Rep.*** 2021 Jul 6;11(1):13940.
2. Tzima E, Serifi I, Tsikari I, Alzualde A, Leonardos I and **Papamarcaki T** (2017) **"**Transcriptional and behavioral responses of zebrafish larvae to Microcystin-LR exposure. ***Int. J. Mol. Sci.*** **18**, 365.
3. Serifi I, Tzima E, Soupsana K, Karetsou Z, Beis D and **Papamarcaki T** (2016) "The zebrafish homologs of SET/I2PP2A oncoprotein: expression patterns and insights into its physiological roles" ***Biochem. J.*** 473, 4609-4627**.**
4. Papadaki A, Politou AS, Smirlis D, Kotini MP, Kourou K, **Papamarcaki T** and Boleti H (2015) "The Leishmania donovani histidine acid ecto-phosphatase LdMAcP: insight into its structure and function" ***Biochem. J.*** 467(3):473-486.

5. Emmanouilidou A, Karetsou Z, Tzima E, Kobayashi T and **Papamarcaki T** (2013) "Knockdown of Prothymosin α leads to apoptosis and developmental defects in zebrafish embryos" ***Biochem. Cell Biol.*** 91(5):325-332.

6. Matragkou Ch, Papachristou H, Karetsou Z, Papadopoulos G, **Papamarcaki T et al** (2009)"On the intra-cellular trafficking of mouse S5 ribosomal protein from cytoplasm to nucleoli" ***J. Mol. Biol.*** 392, 1192-1204.

7. Karetsou Z, Emmanouilidou A, Sanidas I, Liokatis S, Nikolakaki E, Politou AS and **Papamarcaki T** (2009) "Identification of distinct SET/TAF-Iβ domains required for core histone binding and quantitative characterisation of the interaction" ***BMC Biochem.***, 10 (1):10.

8. Nikolakaki E, Drosou V, Sanidas I, Peidis P, **Papamarcaki T** and Giannakouros T (2008) "RNA association or phosphorylation of the RS domain prevents aggregation of RS domain-containing proteins" ***Biochim. Biophys. Acta*** 1780: 214-225.

9. Karetsou Z, Martic G, Sflomos G and **Papamarcaki T** (2005) 'The histone chaperone SET/TAF-Iβ interacts functionally with the CREB-binding protein" ***Biochem. Biophys. Res. Commun.*** 335: 322–327.

10. Papanikolaou A, Papafotika A, Murphy C, **Papamarcaki T**, et al (2005) "Cholesterol-dependent lipid assemblies regulate the activity of the ecto-nucleotidase CD39" ***J. Biol. Chem.*** 280: 26406-26414.

11. Martic G, Karetsou Z, Kefala K, Clapier C, Straub T and **Papamarcaki T** (2005). "Parathymosin affects the binding of linker histone H1 to nucleosomes and remodels chromatin structure" ***J. Biol. Chem.*** 280:16143-16150.

12. Karetsou Z, Martic G, Tavoulari S, Christoforidis S, Wilm M, Gruss **C** and **Papamarcaki T** (2004) "Prothymosin α associates with the oncoprotein SET and is involved in chromatin decondensation" ***FEBS Let.*** 577, 496-500.

13. Karetsou Z, Kretsovali A, Murphy C, Tsolas O, and **Papamarcaki T** (2002) "Prothymosin α interacts with the CREB-binding protein and potentiates transcription**"** ***EMBO Rep.*** **3,** 361-366.

14. Karetsou Z, Sandaltzopoulos R, Frangou-Lazaridis M, Lai C-Y, Tsolas O, Becker PB and **Papamarcaki T** (1998) " Prothymosin α modulates the interaction of histone H1 with chromatin" ***Nucleic Acids Res.*** **13**, 3111-3113.