

## THOMAS PAPAMARCAKI

### Personal Details

**Positions:** *Professor*, Laboratory of Biological Chemistry, Faculty of Medicine, School of Health Sciences, University of Ioannina, Ioannina Greece, and  
*Associate Member/Group Leader*, Biomedical Research Institute, Institute of Molecular Biology & Biotechnology (ITE), Ioannina, Greece

**Work address:** Laboratory of Biological Chemistry, University of Ioannina Medical School, 45110 Ioannina, Greece; **Tel:** +30 26510 07563; **E-mail:** [thpapama@uoi.gr](mailto:thpapama@uoi.gr)

**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

High School, Hania, Crete, 1976

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

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

### Professional Experience

2016-today Professor, Laboratory of Biological Chemistry, Faculty of Medicine, School of Health Sciences, 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, Biological Chemistry, Medical School, University of Ioannina

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

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

### Teaching Experience

1991- today Biochemistry, Medical School, University of Ioannina

2002- 2018 Inter-institutional Interdepartmental Program of Postgraduate Studies "Biotechnology", University of Ioannina

2018- today Inter-institutional Interdepartmental Program of Postgraduate Studies "Molecular and Cellular Biology and Biotechnology", University of Ioannina

### Recent Research Grants

- BioMed Program (2020-2023)
- Synergasia Program (2013-2015)
- Thalys Program IDIPRO (2012-2015)
- European Regional Development Fund (ERDF) (2012-2015) (Principal Investigator)
- KRIPIS II Program (2014-20120)

### Selected Publications

1. Tousinas G., Olumide Emmanuel A., Tracy M., Arnovitz S., Friedman D., **Papamarcaki T.**, Gounari F. (2024) “Stabilization of  $\beta$ -Catenin Directs HEB to Limit Thymic Selection” *J Immunol.* Jul 3:ji2400160.
2. Serifi I., Besta S., Karetsoy Z., Giardoglou P., Beis D., Niewiadomski P., **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.
3. 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.
4. Serifi I, Tzima E, Soupsana K, Karetsoy 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.
5. 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.
6. Emmanouilidou A, Karetsoy Z, Tzima E, Kobayashi T and **Papamarcaki T** (2013) “Knockdown of Prothymosin  $\alpha$  leads to apoptosis and developmental defects in zebrafish embryos” *Biochem. Cell Biol.* 91(5):325-332.
7. Matragkou Ch, Papachristou H, Karetsoy 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.
8. Karetsoy Z, Emmanouilidou A, Sanidas I, Liokatis S, Nikolakaki E, Politou AS and **Papamarcaki T** (2009) “Identification of distinct SET/TAF-I $\beta$  domains required for core histone binding and quantitative characterisation of the interaction” *BMC Biochem.*, 10 (1):10.
9. 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.
10. Karetsoy Z, Martic G, Sflomos G and **Papamarcaki T** (2005) ‘The histone chaperone SET/TAF-I $\beta$  interacts functionally with the CREB-binding protein” *Biochem. Biophys. Res. Commun.* 335: 322–327.

11. Martic G, Karetsoy 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. Karetsoy Z, Martic G, Tavoulari S, Christoforidis S, Wilm M, Gruss C and **Papamarcaki T** (2004) "Prothymosin  $\alpha$  associates with the oncoprotein SET and is involved in chromatin decondensation" *FEBS Let.* 577, 496-500.
13. Karetsoy Z, Kretsovali A, Murphy C, Tsolas O, and **Papamarcaki T** (2002) "Prothymosin  $\alpha$  interacts with the CREB-binding protein and potentiates transcription" *EMBO Rep.* **3**, 361-366.
14. Karetsoy Z, Sandaltzopoulos R, Frangou-Lazaridis M, Lai C-Y, Tsolas O, Becker PB and **Papamarcaki T** (1998) " Prothymosin  $\alpha$  modulates the interaction of histone H1 with chromatin" *Nucleic Acids Res.* **13**, 3111-3113.