

CURRICULUM VITAE

**UNIVERSITY of IOANNINA, MEDICAL SCHOOL  
LABORATORY of BIOLOGICAL CHEMISTRY**

***CURRICULUM VITAE***

**GEORGOPOULOU EKATERINI**

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## CURRICULUM VITAE

### **Ekaterini Georgopoulou**

#### ***Curriculum Vitae***

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#### ***Studies***

- 2011**            **PhD in Biological Chemistry,**  
Department of Medicine, University of Ioannina, Greece  
Title of thesis: Mapping the binding site of nucleobase-ascorbate transporters (NAT). Principal Investigator Stathis Frillingos, Associate Professor of Biological Chemistry, Ioannina University Medical School
- 2006**            **BSc in Biology,**  
Department of Biological Applications & Technology, University of Ioannina, Greece (grade 7.52/10)

#### ***Research Fellowship***

- 2005-2008**    Graduate fellowship in Research Program NONEU-05, from the Greek Secretariat for Research and Technology (GSRT), “Collaborations with Research and Technology Organizations outside Europe”, co-funded from the European Union (75%).

#### ***English knowledge***

- 2002**            Licence to teach English from the Ministry of Education, Lifelong Learning and Religious Affairs of Greece (2002)
- 1999**            Certificate of Proficiency in English, University of Michigan (1999)
- 1997**            First certificate in English, University of Cambridge (1997)

#### ***Computer Skills***

- 2006**            ECDL Certificate (European Computer Driving License)

Excellent Knowledge: MS-DOS, Bioinformatics Databases (BLAST, CLUSTALW), C, C++, Photoshop 7.0/CS.

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### **Publications**

1. P. Karatza, P. Panos, **E. Georgopoulou**, and S. Frillingos, «Cysteine-scanning analysis of the nucleobase-ascorbate transporter signature motif in YgfO permease of *Escherichia coli*: Q324 and N325 are essential and I329-V339 form an alpha-helix». *J. Biol. Chem.* **281**, 39881-39890 (2006).
2. K. Papakostas, **E. Georgopoulou**, and S. Frillingos, «Cysteine-scanning analysis of putative helix XII in the YgfO xanthine permease: I432 and N430 are important», *J. Biol. Chem.* **283**, 13666-13678 (2008).
3. **E. Georgopoulou**, G. Mermelekas, and S. Frillingos, «Purine substrate recognition by the nucleobase-ascorbate transporter motif in the YgfO xanthine permease: Asn-325 binds and Ala-323 senses substrate», *J. Biol. Chem.* **285**, 19422-19433 (2010).
4. G. Mermelekas, **E. Georgopoulou**, M. Botou, V. Vlantos, and S. Frillingos. «Cysteine-scanning analysis of helices TM8, TM9a, TM9b and intervening loops in the YgfO xanthine permease: a carboxyl group is essential at position Asp-276» *J. Biol. Chem.* **285**, 35011-35020 (2010).

### CITATIONS

**Citations to publication-1** [Karatza et al., 2006]

Lu *et al.*, *Nature* **472**, 243-246 (2011)

Kosti *et al.*, *J. Mol. Biol.* **397**, 1132-1143 (2010)

Leung *et al.*, *Prot. Expr. Purif.* **72**, 139-146 (2010)

Lemuh *et al.*, *Prot. Expr. Purif.* **63**, 33-39 (2009)

Karena & Frillingos, *J. Biol. Chem.* **284**, 24257-24268 (2009)

Diallinas & Gournas, *Channels* **2**, 1-10 (2008)

Papageorgiou *et al.*, *J. Mol. Biol.* **382**, 1121-1135 (2008)

Gournas *et al.*, *Mol. Biosyst.* **4**, 404-416 (2008)

Pantazopoulou & Diallinas, *FEMS Microbiol. Rev.* **31**, 657-675 (2007)

**Citations to publication-2** [Papakostas et al., 2008]

Leung *et al.*, *Prot. Expr. Purif.* **72**, 139-146 (2010)

Yuan *et al.*, *Chem. Centr. J.* **4**:6 (2010)

Kosti *et al.*, *J. Mol. Biol.* **397**, 1132-1143 (2010)

Diallinas & Gournas, *Channels* **2**, 1-10 (2008)

Papageorgiou *et al.*, *J. Mol. Biol.* **382**, 1121-1135 (2008)

**Citations to publication-3** [Georgopoulou et al., 2010]

Lu *et al.*, *Nature* **472**, 243-246 (2011)

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### **Presentations in Scientific Conferences**

5. P. Karatza, **E. Georgopoulou**, P. Panos, and S. Frillingos, «The NAT motif defines integrity, specificity and affinity of the purine pathway of YgfO transporter», 31<sup>st</sup> FEBS Congress, Istanbul, Turkey, June 24-29, 2006. Abstract PP-867. *FEBS J.* **273** (suppl. 1), 310 (2006).
6. P. Karatza, **E. Georgopoulou**, P. Panos, and S. Frillingos, «Consenting determinants of the bacterial and fungal purine uptake pathways in the nucleobase-ascorbate transporter signature motif», International Symposium on Membrane Transport and Transporters, *Transporters2006*, Parma, Italy, September 6-9, 2006. *Acta Bio Medica* **77** (suppl. 3), 69-70 (2006).
7. K. Papakostas, **E. Georgopoulou**, and S. Frillingos, «Cys-scanning analysis of the last transmembrane segment (TMS12) in the NAT/NCS2 transporter family», 58<sup>th</sup> Hell. Society Biochem. Mol. Biol. Meeting, Patra, November 9-11 2006. *Hell. Biochem. Mol. Biol. Newsletter* **53**, 168 (2006).
8. **E. Georgopoulou**, P. Karatza, P. Panos, and S. Frillingos, «The NAT/NCS2 signature motif in the YgfO permease of *E. coli*: I. Cysteine-scanning mutagenesis», Hellenic Society for Biological Sciences, Ioannina, May 18-20, 2006. *Proceedings of the 28<sup>th</sup> Scientific Conference*, 43-44 (2006).
9. **E. Georgopoulou**, G. Mermelekas, E. Karena, P. Karatza, P. Panos, and S. Frillingos, «The role of <sup>324</sup>QN<sup>325</sup> and flanking sequences of the nucleobases-ascorbate transporters (NAT) in purine:H<sup>+</sup> symport», 32<sup>nd</sup> FEBS Congress - *Molecular Machines*, Vienna, Austria, July 7 - 12, 2007. Abstract B4-16. *FEBS J.* **274** (suppl. 1), 121 (2007).
10. **E. Georgopoulou**, K. Papakostas, E. Karena, and S. Frillingos, «Critical residues and intramolecular interactions in the xanthine permease YgfO from *Escherichia coli* as revealed from Cys-scanning analysis», 59<sup>th</sup> Panhellenic Congress of Biochemistry and Molecular Biology, Athens, Dec 7 - 9, 2007. *Hell. Biochem. Mol. Biol. Newsletter* **54**, 104 (2007).
11. **E. Georgopoulou**, G. Mermelekas, and S. Frillingos, «Purine binding at the nucleobase-ascorbate transporter signature motif», Hellenic Society for Biological Sciences, Thessaloniki, May 22-24, 2008. *Proceedings of the 30<sup>th</sup> Scientific Conference*, 76-77 (2008).
12. G. Mermelekas, **E. Georgopoulou**, and S. Frillingos, «Site-directed alkylation and the nucleobase-ascorbate transporter signature motif», 33<sup>nd</sup> FEBS Congress – *Biochemistry of cell regulation*, Athens, Greece, June 28 – July 3, 2008. Abstract PP3-25. *FEBS J.* **275** (suppl. 1), 218 (2008). *Awarded a Bodossakis Foundation prize for poster/oral presentations.*
13. S. Frillingos, K. Papakostas, **E. Georgopoulou**, E. Karena, E. Vourvou, and G. Mermelekas, «Functional role and interactions of helix XII with the Nucleobase-Ascorbate Transporter (NAT) signature motif in the xanthine permease YgfO from *E.*

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- coli*», **Gordon Research Conference**, on *Membrane transport proteins*, Lucca, Italy, July 20 – 25, poster session on “Structure of membrane transporters”, moderated by G. Rudnick (2008).
14. E. Karena, **E. Georgopoulou**, A. Kallis, and S. Frillingos, «The sequence region of transmembrane helices 8 and 9 in nucleobase-ascorbate transporter (NAT/NCS2) family», Hellenic National Initiative Mikrobiokosmos (MBK), 1<sup>st</sup> National MBK Conference, NCSR Demokritos, Aghia Paraskevi Attikis, Athens, Dec. 12-14, 2008. *Proceedings* 95-97 (2008).
  15. G. Mermelekas, E. Georgopoulou, and **S. Frillingos**, «Topology and substrate binding in the NAT motif of xanthine permease YgfO (XanQ)», 60<sup>th</sup> Panhellenic Congress of Biochemistry and Molecular Biology, Athens, Nov 20 - 22, 2009. *Hell. Biochem. Mol. Biol. Newsletter* **55**, 155 (2009).
  16. S. Frillingos, G. Mermelekas, K. Papakostas, M. Botou, E. Karena, and **E. Georgopoulou**, «Role of putative transmembrane helix TM8 in the nucleobase-ascorbate transporter family», Hellenic Society for Biological Sciences, Karpenissi, May 20-22, 2010, Proceedings of the 32<sup>nd</sup> Scientific Conference, 410- 411 (2010).
  17. **E. Georgopoulou**, and S. Frillingos, «Analysis of cross-homolog chimeras reveals the evolvability dynamics of xanthine permease YgfO (XanQ)», 61<sup>st</sup> Panhellenic Congress of Biochemistry and Molecular Biology, Alexandropolis, Oct 15 - 17, 2010. P30. *Book of Abstracts*, 52 (2010).