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CURRENT POSITION

Research Faculty, Yale University, Medical School, Department of Pharmacology

RESEARCH INTERESTS

Structure, function and regulation of proteins involved in biogenic amine neurotransmission and their role in human pathogenesis

EDUCATION

- 2005 Doctor of Philosophy: Biological Chemistry, Medical School, University of Ioannina, Greece
- 2001 Masters of Science: Biotechnology, Medical School and School of Natural Sciences, University of Ioannina, Greece
- 1998 Bachelor of Science: Chemistry, School of Natural Sciences, University of Ioannina, Greece

HONORS AND AWARDS

- 2006-2008 Postdoctoral Fellowship from the “Autism speaks” Foundation, USA
- 2002-2005 Predoctoral Fellowship from the Hellenic Ministry of Education, Program “Heraklitos”
- 2001-2002 Predoctoral Fellowship from the Research Committee of University of Ioannina
- 1998-2000 Master Thesis Fellowship from the Hellenic Ministry of Education, Program “Biotechnology”

TEACHING EXPERIENCE

- 2004-2005 Adjunct Lecturer: Technological Educational Institute of Epirus, Greece
- 2003-2004 Adjunct Lecturer: University of Ioannina, Department of Biological Applications and Technologies, Greece
- 2001-2004 Mentor for Master Students and undergraduate students, University of Ioannina Medical School, Greece
- 2006-2011 Mentor for undergraduate students, new postdocs and technicians in the laboratory of Gary Rudnick, Yale University Medical School, USA

RESEARCH EXPERIENCE

2006-2011 Postdoctoral with Gary Rudnick, Dept. of Pharmacology, Medical School, Yale University

2005-2006 Postdoctoral with Stathis Frillingos, Dept. of Biological Chemistry, Medical School, University of Ioannina, Greece

2001-2005 Ph.D. Dissertation with Stathis Frillingos and Contantine Seferiadis, Dept. of Biological Chemistry, Medical School, University of Ioannina, Greece

1998-2000 M.Sc. Dissertation

1997-1998 Research Assistant with Contantine Seferiadis in the Laboratory of Biochemistry, General University Hospital of Ioannina.

PUBLICATIONS (PEER REVIEWED)

Tavoulari S., Rizwan A.R., Forrest L.R., Rudnick G. (2011) Reconstructing a chloride binding site in a bacterial neurotransmitter transporter homologue, *J. Biol. Chem.*, 28, 2834-42.

Tavoulari S., Forrest L.R., Rudnick G. (2009) Fluoxetine (Prozac) binding to serotonin transporter is modulated by chloride and conformational changes, *J. Neurosci.*, 29, 9635-9643.

Tavoulari S., Frillingos S. (2008) Substrate selectivity of the melibiose permease (MelY) from *Enterobacter cloacae*, *J. Mol. Biol.* 376, 681-693.

Forrest L.R., **Tavoulari S.**, Zhang Y.W., Rudnick G., Honig B. (2007) Identification of a chloride ion binding site in Na⁺/Cl⁻-dependent transporters, *Proc. Natl. Acad. Sci. U.S.A.* 104, 12761-12766.
Editor's choice and commentaries in *Cell, Science and Nature Struct. Mol. Biol.*

Tavoulari S., Frillingos S., Karatza P, Messinis I.E., Seferiadis K. (2004) The recombinant subdomain IIIB of human serum albumin displays activity of gonadotrophin surge-attenuating factor, *Human. Reprod.* 19, 849-58.

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

Tzavaras T., Eftaxia S., **Tavoulari S.**, Hatzi P., Angelidis C. (2003) Factors influencing the expression of endogenous reverse transcriptases and viral-like 30 elements in mouse NIH3T3 cells. *Int. J. Oncol.* 23, 1237-43.

Malamou-Mitsi V., Zachariou Ch., Tzallas S., **Tavoulari S.**, Paraskevaidis E., Agnantis N.J. (2002) Detection and typing of HPV by PCR and Restriction Fragment Length Polymorphisms (RFLPs) in tissue samples from human cervical lesions, *Electronic J. Pathol. Histol.* 8(1), 20-29.

Kashyap A., Hristidis V., Petropoulos M., **Tavoulari S.** (2011) Effective Navigation of Query Results Based on Concept Hierarchies, *IEEE Transactions on Knowledge and Data Engineering (TKDE)* 23 (4), 540-541.

INVITED ARTICLES

Reyes N. and **Tavoulari S.** (2011) To be or not to be two sites; that is the question about LeuT substrate binding, *J. Gen. Physiol.* 138, 467-71.

SELECTED CONFERENCE PRESENTATIONS

Tavoulari S., Rizwan A.R., Forrest L.R., Rudnick G. “Reconstructing a chloride binding site in a bacterial neurotransmitter transporter homologue” Membrane Transport Proteins, Gordon Research Conferences, University of New England, ME, USA, Aug 15-20 (2010)

Tavoulari S., Forrest L.R., Rudnick G., “Chloride and conformational changes modulate Prozac binding to serotonin transporter”, Membrane Transport Proteins, Gordon Research Conferences, Il Ciocco, Italy, July 20-25 (2008)

Forrest L.R., **Tavoulari S.**, Zhang Y.W., Rizwan A.R., Rudnick G., Honig B., “Identification of a chloride ion binding site in Na⁺/Cl⁻-dependent transporters”, Mechanisms of Membrane Transport, Gordon Research Conferences, Tilton, NH, USA, June 10-15 (2007)

Tavoulari S., “New perspectives in the research of GnSAF”, New developments in Assisted Reproductive Technology (International conference), Larissa, 3-4 April (2004) ***Invited speaker***

Kashyap A., Hristidis V., Petropoulos M., **Tavoulari S.**, “Exploring Biomedical Databases with BioNav”, ACM International Conference on Management of Data, (SIGMOD), Demonstration paper (2009)