

ANNA TSAPARA
Curriculum Vitae

Contact details

University of Crete, School of Medicine
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Professional Carrier

October 2010-presently

Laboratory Teaching Staff, School of Medicine, University of Crete, Greece.

Since October 2010, co-responsible for the organization and teaching of Biochemistry B laboratory practicals for second year undergraduate students.

Since October 2021, co-responsible for the organization and teaching of Chemistry laboratory practicals for first year undergraduate students.

Since October 2024, co-responsible for the organization and teaching of Biochemistry B laboratory practicals for second year undergraduate students of the International program in Medicine.

May 2008-February 2010

Senior Research fellow, Division of Cell Biology, Institute of Ophthalmology, UCL, UK, studying the mechanism by which Annexin1 regulates inward vesiculation in multivesicular bodies after EGF stimulation.

May 2005-May 2008

Senior Research fellow, Division of Cell Biology, Institute of Ophthalmology, UCL, UK, studying the role of tight junction associated signaling molecules in retinal pigment epithelium dedifferentiation.

May 2002-May 2005

Research fellow, Division of Cell Biology, Institute of Ophthalmology, UCL, UK, studying the functional significance of the association of the heat shock protein Apg-2 with the tight junction protein ZO-1 in regulating the ZO-1/ZONAB signaling pathway in polarized epithelial cells.

2001-2002

Postdoctoral fellow, Department of Biochemistry, Division of Basic Sciences, School of Medicine, University of Crete, Greece, studying the nucleocytoplasmic transport of actin.

Qualifications

1993-2001

Ph.D thesis on "Modifications and mutations at the carboxy-terminus of actin: models for the study of the biochemical behaviour of actin in vitro and ex vivo", Laboratory of Biochemistry, Division of Basic Sciences, School of Medicine, University of Crete, Greece.

1987-1992

Bachelor Degree in Chemistry, Chemistry Department, University of Crete, Greece.

1991

Diploma thesis on “Thallium and Iridium metalloporphyrines: Reactions in their coordination sphere”, Laboratory of Inorganic and Bioinorganic Chemistry, Chemistry Department, University of Crete, Greece.

1992

Six-month Erasmus Fellowship for research work on “Preparation of schiff-bases as catalysts for the oxidation of unsaturated hydrocarbons”, Laboratoire de Chimie de Coordination, CNRS Toulouse, France.

Publications

Feger M, **Tsapara A**, Hülße S, Rausch S, Barholz M, Stournaras C, Föller M., Chorein regulates key osteoblast genes in UMR-106 cells, *Cell Biochem Biophys*, Protein J., **2025**, on line ahead of print.

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Deiktakis EE, Abrams M, **Tsapara A**, Stournaras C, Tsatsanis C, Tsihlis PN, Kampranis SC., Identification of structural elements of the lysine specific demethylase 2B CxxC domain associated with replicative senescence bypass in primary mouse cells, *Protein J.*, **2020**, 39:232-239.

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Zacharopoulou N, **Tsapara A**, Kallergi G, Schmid E, Tsihlis PN, Kampranis SC, Stournaras C., The epigenetic factor KDM2B regulates cell adhesion, small rho GTPases, actin cytoskeleton and migration in prostate cancer cells, *Biochim Biophys Acta Mol Cell Res.*, **2018**, 1865:587-597.

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Stagno MJ, Zacharopoulou N, Bochem J, **Tsapara A**, Pelzl L, Al-Maghout T, Kallergi G, Alkahtani S, Alevizopoulos K, Dimas K, Calogeropoulou T, Warmann SW, Lang F, Schmid E, Stournaras C., Istaroxime Inhibits Motility and Down-Regulates Orai1 Expression, SOCE and FAK Phosphorylation in Prostate Cancer Cells, *Cell Physiol Biochem.*, **2017**, 42:1366-1376.

Eden ER, Sanchez-Heras E, **Tsapara A**, Sobota A, Levine TP, Futter CE, Annexin A1 Tethers Membrane Contact Sites that Mediate ER to Endosome Cholesterol Transport, *Dev Cell.*, **2016**, 37:473-83.

Alevizopoulos K, Dimas K, Papadopoulou N, Schmidt EM, **Tsapara A**, Alkahtani S, Honisch S, Prousis KC, Alarifi S, Calogeropoulou T, Lang F, Stournaras C, Functional characterization and anti-cancer action of the clinical phase II cardiac Na⁺/K⁺ ATPase inhibitor istaroxime: in vitro and in vivo properties and cross talk with the membrane androgen receptor, *Oncotarget*, **2016**, 7:24415-28.

Honisch S, Yu W, Liu G, Alesutan I, Towhid ST, **Tsapara A**, Schleicher S, Handgretinger R, Stournaras C, Lang F, Chorein addiction in VPS13A overexpressing rhabdomyosarcoma cells, *Oncotarget*, **2015**, 6:10309-19.

Honisch S, Gu S, Vom Hagen JM, Alkahtani S, Al Kahtane AA, **Tsapara A**, Hermann A, Storch A, Schöls L, Lang F, Stournaras C, Chorein Sensitive Arrangement of Cytoskeletal Architecture, *Cell Physiol Biochem.*, **2015**, 7:399-408.

Eden E.R., White I.J., **Tsapara A.** and Futter C.E., Membrane contacts between endosomes and ER provide sites for PTP1B-EGF receptor interaction, *Nat Cell Biol*, **2010**, 12: 267-272.

Tsapara A., Luthert P., Greenwood J., Hill C.S., Matter K. and Balda M.S., The RhoA activator GEF-H1/Lfc is a TGF- β target gene and effector that regulates α -smooth muscle actin expression and cell migration, *Mol. Biol. Cell*, **2010**, 21:860-870.

Tsapara A., Matter K and Balda M.S., The heat shock protein Apg-2 binds to the tight junction protein ZO-1 and regulates transcriptional activity of ZONAB, *Mol. Biol. Cell*, **2006**, 17: 1322-1330.

Kavanagh E, Buchert M, **Tsapara A**, Choquet A, Balda MS, Hollande F, Matter K, Functional interaction between the ZO-1-interacting transcription factor ZONAB/DbpA and the RNA processing factor symplekin, *J. Cell Sci.*, **2006**, 119: 5098-5105.

Sourisseau T., Georgiadis A, **Tsapara A.**, Ali R.R., Pestell R., Matter K., Balda M.S., Regulation of PCNA and Cyclin D1 expression and epithelial morphogenesis by the ZO-1-regulated transcription factor ZONAB/DbpA, *Mol. Cell. Biol.*, **2006**, 26:2387-2398.

Matter K, Aijaz S, **Tsapara A**, Balda MS, Mammalian tight junctions in the regulation of epithelial differentiation and proliferation, *Curr Opin Cell Biol*, **2005**, 17:453-8.

Kallergi G, **Tsapara A**, Kampa M, Papakonstanti EA, Krasagakis K, Castanas E, Stournaras C, Distinct signaling pathways regulate differential opioid effects on actin cytoskeleton in malignant MCF7 and nonmalignant MCF12A human breast epithelial cells, *Exp. Cell Res.*, **2003**, 288: 94-109.

Tsapara A, Kardassis D, Moustakas A, Gravanis A, Stournaras C, Expression and characterization of Cys³⁷⁴ mutated human β -actin in two different mammalian cell lines: impaired microfilament organization and stability, *FEBS Lett.*, **1999**, 455: 117-12.

Theodoropoulos PA, Gravanis A, **Tsapara A**, Margioris AN, Papadogiorgaki E, Galanopoulos V, Stournaras, Cytochalasin B may shorten actin filaments by a mechanism independent of barbed end capping, *Biochem. Pharmacol.*, **1994**, 47:1875-1881.