

# PANAGIOTA PAPAZAFIRI

0000-0001-8388-4099

## EDUCATION

- 1987:** **Ph.D. Cellular and Molecular Biology**, Université Scientifique Technologique et Médicale de Grenoble-France.
- 1983:** **Diploma in Biology**, Aristotle University of Thessaloniki-Greece.

## PROFESSIONAL EXPERIENCE

- 1998-present:** University of Athens, Department of Biology.  
(1998-2004: Lecturer, 2004-2010: Assistant Professor, 2010-present: Associate Professor)
- 1995-1998:** **Principal research scientist**, Institute of Biology, National Research Centre "Demokritos", Athens, Greece.
- 1992-1994:** **Visiting Scientist**, Department of Biological and Technological Research (DIBIT), HOSPITAL SAN RAFFAELE, Milano, Italy.
- 1989-1992:** **Research Associate** in the Institute of Biology, National Research Centre "Demokritos", Athens, Greece.
- 1989 (6-month):** **Visiting Scientist**, Boston University Medical Centre (Section of Molecular Genetics), Massachusetts, the USA.
- 1988-1989:** **Post Doctoral fellow** in the Institute of Molecular Biology and Biotechnology (IMBB), Heraklion-Crete, Greece

## AWARDS

Hellenic Scholarship Foundation, Fellowship, 1984-1987.  
European Union, Fellowship, 1992-1994

## MEMBERSHIPS

1. Hellenic Society of Biological Sciences.
2. Hellenic Society for Neurosciences
3. Hellenic Society of Biochemistry and Molecular Biology

## RESEARCH INTERESTS

Cell physiology with emphasis on calcium signalling.

## PhD Thesis

Etude de la différenciation des cellules érythroleucémiques de souris: méthylation du DNA, régulation de l'expression de l'ornithine décarboxylase. Université Scientifique Technologique et Médicale de Grenoble, Joseph Fourier (1987).

## SELECTED PUBLICATIONS

1. O. Mavrofydi, P.**Papazafiri** Hypoxia-inducible factor-1 $\alpha$  increase is an early and sensitive marker of lung cells responding to benzo[ $\alpha$ ]pyrene. *Journal of Environmental Pathology, Toxicology and Oncology*, 2012; 31, (4): 335-347.
2. M. Chatzistavraki, E. Kyratzi, A. Fotinopoulou, P. **Papazafiri**, S. Efthimiopoulos Downregulation of APP enhances both calcium content of endoplasmic reticulum and acidic stores and the dynamics of SOCs activity. *J Alzheimer's Dis.* 2013; 34(2):407-15
3. Brogi, S., **Papazafiri**, P., Roussis, V. and A. Tafi. 3D-QSAR using pharmacophore-based alignment and virtual screening for discovery of novel

- MCF-7 cell line inhibitors. *European Journal of Medicinal Chemistry* 2013; 67:344-51
- Melachroinou, K., Xilouri, M., Emmanouilidou, E., Masgrau, R., **Papazafiri, P.**, Stefanis, L. and Vekrellis, K. Dysregulation of  $Ca^{2+}$  homeostasis mediates secreted  $\alpha$ -synuclein-induced neurotoxicity *Neurobiology of Aging*. 2013; 34(12):2853-65
  - Pilou M., O. Mavrofydi, Housiadas, C., Eleftheriadis, K., **Papazafiri, P.** Computational modelling as part of alternative testing strategies in the respiratory and cardiovascular systems: Inhaled nanoparticle dose modelling based on representative aerosol measurements and corresponding toxicological analysis. *Nanotoxicology*. 2015; 9:106-15.
  - N. Lagopati, E. Tsilibary, P. Falaras, **P. Papazafiri**, E. Pavlatou, E. Kotsopoulou, P. Kitsiou. Effect of nanostructured TiO<sub>2</sub> crystal phase on photo-induced apoptosis of breast cancer epithelial cells. *International Journal of Nanomedicine*, 2014, 9: 3219-3230.
  - G. Szalókia, A. Pantzoua, K. C. Prousisa, O. Mavrofydi, **P. Papazafiri** and T. Calogeropoulou. Design and synthesis of 21-alkynylaryl pregnenolone derivatives and evaluation of their anticancer activity. *Bioorg Med Chem*. 2014;22(24):6980-8
  - M Dusinska, S Boland, ..., M Pilou, **P.Papazafiri**, MS Poulsen, B Ross, E Runden-Pran, K Sebekova, M Staruchova, D Vallotto, A Worth. Towards an alternative testing strategy for nanomaterials used in nanomedicine: Lessons from NanoTEST. *Nanotoxicology*. 2015; 9:118-32.
  - Petraki, A.; Ioannou, E.; **Papazafiri, P.**; Roussis, V. Dactylomelane Diterpenes from the Sea Hare *Aplysia depilans*. *J Nat Prod*. 2015;78(3):462-7
  - Mavrofydi O., Mavroeidi P. and **Papazafiri P.** Comparative assessment of HIF-1 $\alpha$  and Akt responses in human lung and skin cells exposed to benzo[a]pyrene. Effect of conditioned medium from pre-exposed primary fibroblasts. *Environ Toxicol*. 2016;31(9):1103-12
  - Divolis, G., Mavroeidi, P., Mavrofydi, O. and **Papazafiri P.** Differential effects of calcium on PI3K-Akt and HIF-1 $\alpha$  survival pathways. *Cell Biol Toxicol*. 2016; 32(5):437-49.
  - Mavroeidi, P., Mavrofydi, O., Pappa, E., Panopoulou, M., **Papazafiri, P.**, Haralambous, S., Efthimiopoulos, S. Oxygen and glucose deprivation alter synaptic distribution of tau protein. *J Alzheimers Dis*. 2017;60(2):593-604.
  - Samara, P., Miriagou, V., Zachariadis, M., Mavrofydi, O., Promponas, V.J., Dedos, S.G., **Papazafiri, P.**, Kalbacher, H., Voelter, W., Tsitsilonis, O. A fragment of the alarmin prothymosin  $\alpha$  as a novel biomarker in murine models of bacteria-induced sepsis. *Oncotarget*. 2017;8(30):48635-48649
  - Perdikaris, St., Mangoni, A., Grauso, L., **Papazafiri, P.**, Roussis, V., Ioannou, E. Vagiallene, a rearranged C15 acetogenin from *Laurencia obtusa*. *Organic Letters* 2019;21(9):3183-3186.
  - Paschou, M., Maier, L., **Papazafiri, P.**, Selescu, T., Dedos, S. G., Babes, A., Doxakis, E. Neuronal microRNAs modulate TREK two-pore domain K<sup>+</sup> channel expression and current density. *RNA Biol*. 2020;17(5):651-662
  - Chatzistavraki M, **Papazafiri P**, Efthimiopoulos S. Amyloid- $\beta$  Protein Precursor Regulates Depolarization-Induced Calcium-Mediated Synaptic Signaling in Brain Slices. *J Alzheimers Dis*. 2020;76(3):1121-1133.