

She obtained her diploma in Physics from the University of Patra in Greece (2008) and MSc in Applied Physics (Photonics) from the University of Patra (2012). She is a senior PhD student at the **Laboratory of Molecular Neurobiology & Immunology (prof. S. Tzartos)**. She's investigating the expression /function relationship of neuronal nicotinic Acetylcholine Receptors ($\alpha 2\beta 2$ nAChR, $\alpha 9\alpha 10$ nAChR) in mammalian cell lines (HEK,CHO,TSA201) and primary cell cultures (Xenopus Oocytes ,lymphocytes and neurons) using the two electrode voltage clamp (TEV) and patch lamp technique. She also investigating the electrophysiology properties of voltage gated and neuronal ligand binding proteins (GABA, nAChRs, Gluamate and Glycine) in human iPSC derived neurons. Her research also is focused in the kinetics of ligand gated ion channels which have high importance for cellular signaling. Moreover her research is also focused to the desensitization of nAChRs in low nanomolar of nicotine which is implicating to memory-related tasks such as working memory and improving cognition She is equal first author of 1 peer-reviewed publication and author to other 3 papers.

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- Aravantinou-Fatorou K, Ortega F, Chroni-Tzartou D, Antoniou N, Pouloupoulou C, Politis PK, Berninger B, Matsas R, Thomaidou D. CEND1 and NEUROGENIN2 Reprogram Mouse Astrocytes and Embryonic Fibroblasts to Induced Neural Precursors and Differentiated Neurons. Stem Cell Reports. 2015 Sep 8;5(3):405-18. doi: 10.1016/j.stemcr.2015.07.012. Epub 2015 Aug 28.
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