

CURRICULUM VITAE

Evangelia Chavdoula, PhD

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EDUCATION

-09/2000-02/2005: Bachelor of Science (BSc) in Biology. Department of Biology, University of Athens, Greece. Grade: 7.49 (Very good), 02/2005.

Diploma Thesis: "Biological effects of electric field and mobile phone radiation on the reproductive capacity of the insect *Drosophila melanogaster*"

-01/2006-12/2012: Doctor of Philosophy (PhD) in Cell Biology and Biophysics. Department of Cell Biology & Biophysics, University of Athens, Greece.

Dissertation: "Effects of Electromagnetic Fields on Biological Systems" Grade: Excellent (PhD Defense: 19-12-2012)

Supervisor: Prof. Lukas Margaritis

FELLOWSHIPS

-2006-2010: PhD Research Fellowship (Greek National Fellowship Foundation-IKY)

-2015-2017: Post-doctoral Fellow at Biomedical Research Foundation of the Academy of Athens (BRFAA), Greece.

PROFESSIONAL EXPERIENCE

-07/2013-07/2015: Post-Doctoral Researcher under the program THALIS 'Cancer TFs' Research title: "*Defining the functional roles of IKK β and IKK α NF- κ B kinases in carcinogen-induced lung cancer onset and progression.*"

Biomedical Research Foundation of the Academy of Athens (BRFAA) and Biomedical Research Division, Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology (IMBB-FORTH), Ioannina.

Principal Investigators: Associate Prof. Evangelos Kolettas, Prof. Kenneth B. Marcu
Collaborative member: Apostolos Klinakis, Researcher A'

-10/2015-06/2018: Post-Doctoral Fellow at the Biomedical Research Foundation of the Academy of Athens (BRFAA) 1) Research title: "*Role of individual Notch receptors in the mouse mammary gland branching morphogenesis and pregnancy*" 2) Research title: "*The role of*

KMT2C (Mll3) Methyltransferase in breast cancer development, metastasis and drug resistance.”

Principal Investigator: Apostolos Klinakis, Researcher A’

-08/2018-05/2021: Postdoctoral Scholar at the Ohio State University, Comprehensive Cancer Center, USA

-06/2021-11/2023: Senior Research Associate at the Ohio State University, Comprehensive Cancer Center, USA

Research title: “*The role of the histone demethylase KDM2B in the regulation of metabolism in breast cancer.*”

Principal Investigator: Prof. Philip Tsiichlis

-01/2024-present: Senior Postdoctoral Researcher at the BSRC Alexander Fleming

Research title: “*Artifying fibroblasts: Perturbation modelling in the lung tumor phase space to rewire fibroblasts for immunotherapy*”

Principal Investigator: Maria Tsooumakidou, Researcher A’

PUBLICATIONS

Anastas V, **Chavdoula E**, Ferlita A, Soysal B, Cosentini I, Nigita G, Kearse MG, Tsiichlis PN. “KDM2B is required for ribosome biogenesis and its depletion unequally affects mRNA translation”. 2024. bioRxiv [Preprint]. doi: 10.1101/2024.05.22.595403. PMID: 38826406. Under review in *Nucleic Acids Research*.

Chavdoula E, Anastas V, Ferlita A, Aldana J, Carota G, Spampinato M, Soysal B, Cosentini I, Parashar S, Sircar A, Nigita G, Sehgal L, Freitas MA, Tsiichlis PN. 2024. “Transcriptional regulation of amino acid metabolism by KDM2B, in the context of ncPRC1.1 and in concert with MYC and ATF4”. *Metabolism*. 150:155719. doi: 10.1016/j.metabol.2023.155719. PMID: 37935302

Sircar A, Singh S, Xu-Monette ZY, Coyle KM, Hilton LK, **Chavdoula E**, Ranganathan P, Jain N, Hanel W, Tsiichlis P, Alinari L, Peterson BR, Tao J, Muthusamy N, Baiocchi R, Epperla N, Young KH, Morin R, Sehgal L. 2023. “Exploiting the Fibroblast Growth Factor Receptor-1 vulnerability to therapeutically restrict the MYC-EZH2-CDKN1C axis-driven proliferation in Mantle Cell Lymphoma”. *Leukemia*. 37(10):2094-2106. doi: 10.1038/s41375-023-02006-8. PMID: 37598282

Simigdala N, Chalari A, Sklirou AD, **Chavdoula E**, Papafotiou G, Melissa P, Kafalidou A, Paschalidis N, Pateras IS, Athanasiadis E, Konstantopoulos D, Trougakos IP, Klinakis A. 2023. “Loss of Kmt2c in vivo leads to EMT, mitochondrial dysfunction and improved response to

lapatinib in breast cancer. *Cell Mol Life Sci.* 80(4):100. doi: 10.1007/ s00018-023-04734-7. PMID: 36933062

Papakonstantinou A, Koumarianou P, Rigakou A, Diamantakos P, Frakolaki E, Vassilaki N, **Chavdoula E**, Melliou E, Magiatis P, Boleti H. 2022. "New Affordable Methods for LargeScale Isolation of Major Olive Secoiridoids and Systematic Comparative Study of Their Antiproliferative/Cytotoxic Effect on Multiple Cancer Cell Lines of Different Cancer Origins *Int J Mol Sci.* 24(1):3. doi: 10.3390/ijms24010003. PMID: 36613449

Roupakia E, **Chavdoula E**, Karpathiou G, Vatsellas I, Chatzopoulos D, Mela A, Gillette JM, Kriegsmann K, Kriegsmann M, Batistatou A, Goussia A, Marcu KB, Karteris E, Klinakis A, and Kolettas E. 2021. "Canonical NF- κ B promotes lung epithelial cell tumour growth by downregulating the metastasis suppressor CD82 and enhancing epithelial to mesenchymal cell transition". *Cancers (Basel).* 13(17):4302. doi: 10.3390/ cancers13174302. PMID: 34503110

Choueiry F, Singh S, Sircar A, Laliotis G, Sun X, **Chavdoula E**, Zhang S, Helmig-Mason J, Hart A, Epperla N, Tsihliis P, Baiocchi R, Alinari L, Zhu J, Sehgal L. 2021. "Integration of Metabolomics and Gene Expression Profiling Elucidates IL4I1 as Modulator of Ibrutinib Resistance in ABC-Diffuse Large B Cell Lymphoma". *Cancers (Basel).* 29;13(9): 2146. doi: 10.3390/cancers13092146. PMID: 33946867

Paraskevopoulou V, Bonis V, Dionellis VS, Paschalidis N, Melissa P, **Chavdoula E**, Vasilaki E, Pateras IS, Klinakis A. 2020. "Notch controls urothelial integrity in the mouse bladder". *JCI Insight.* 13;5(3):e133232. doi: 10.1172/jci.insight.133232. PMID: 32051338

Efentakis P, Varela A, **Chavdoula E**, Sigala F, Sanoudou D, Tenta R, Gioti K, Kostomitsopoulos N, Papapetropoulos A, Tasouli A, Farmakis D, Davos CH, Klinakis A, Suter T, Cokkinos DV, Iliodromitis EK, Wenzel P, Andreadou I. 2020. "Levosimendan prevents doxorubicin-induced cardiotoxicity in time- and dose-dependent manner: implications for inotropy ". *Cardiovasc Res.* 116(3):576-591. doi: 10.1093/cvr/cvz163.PMID: 31228183

Chavdoula E, Habel DM, Roupakia E, Markopoulos GS, Vasilaki E, Kokkalis A, Polyzos AP, Boleti H, Thanos D, Klinakis A, Kolettas E, Marcu KB. 2019. "CHUK/IKK- α loss in lung epithelial cells enhances NSCLC growth associated with HIF up-regulation". *Life Sci Alliance.* 2(6):e201900460 doi: 10.26508/lsa.201900460. PMID: 31792060

Markopoulos G, Roupakia E, Tokamani M, **Chavdoula E**, Hatziapostolou M, Polytarchou C, Marcu KB, Papavassiliou AG, Sandaltzopoulos R and Kolettas E. 2017. Review. "A step-by-step microRNA guide to cancer cell development and metastasis". *Cellular Oncology*, 40:303-339. doi: 10.1007/s13402-017-0341-9. PMID: 28748501

Chavdoula ED, Panagopoulos DJ, Margaritis LH. 2010. "Comparison of biological effects between continuous and intermittent exposure to GSM-900 MHz mobile phone radiation. Detection of apoptotic cell death features", *Mutation Research*, 700: 51-61. doi: 10.1016/j.mrgentox.2010.05.008. PMID: 20472095

Panagopoulos DJ, **Chavdoula ED**, Margaritis LH. 2010. "Bioeffects of Mobile Telephony Radiation in relation to its Intensity or Distance from the Antenna", *International Journal of Radiation Biology*, 86: 345-357. doi: 10.3109/09553000903567961. PMID: 20397839

Panagopoulos DJ, **Chavdoula ED**, Nezis IP, Margaritis LH. 2007. "Cell death induced by GSM 900-MHz and DCS 1800-MHz mobile telephony radiation". *Mutation Research*, 626: 69-78. doi: 10.1016/j.mrgentox.2006.08.008. PMID: 17045516

Panagopoulos DJ, **Chavdoula ED**, Karabarbounis A, Margaritis LH. 2007. "Comparison of Bioactivity Between GSM 900 MHz and DCS 1800 MHz Mobile Telephony Radiation". *Electromagnetic Biology and Medicine*, 26: 33-44. doi: 10.1080/15368370701205644. PMID: 17454081

POSTERS-ORAL PRESENTATIONS

Evangelia Chavdoula, Dimitrios E. Koumadorakis, Mariela Alvanou, Konstantinos Ioannidis, Eirini Deligianni, Grigorios Barnasas, Emmanouil Aerakis, Alexia-Christina Vakouftsi, Kostantinos Vachlas, Charalambos Zisis, Ioannis Vamvakaris, Maria Tsoumakidou. 2024. Abstract. "**Tumors induce chimeric myeloid-fibroblast states with functional roles in adaptive immunity**". 2nd International Conference on Mesenchymal Cells in Health & Disease. Aegean conferences. Chania, Crete, Greece. <https://www.aegeanconferences.org/src/App/conferences/view/179>

Evangelia Chavdoula, Vollter Anastas, Allesandro La Ferlita, Julian Aldana, Giuseppe Carota, Mariarita Spampinato, Sameer Parashar, Ilaria Cosentini, Burak Soysal, Giovanni Nigita, Michael Freitas, Philip Tsiichlis. 2023. Abstract 6038: "KDM2B regulates Serine-Glycine-One Carbon (SGOC) metabolism by targeting the SGOC enzyme genes via a combination of direct and indirect epigenetic mechanisms". AACR conference, Orlando, April 2023. *Cancer Res* (2023) 83 (7_Supplement): 6038. <https://doi.org/10.1158/1538-7445.AM2023-6038>

Evangelia Chavdoula, Vollter Anastas, Alessandro La Ferlita, Julian Aldana, Ilaria Cosentini, Dario Palmieri, Michael A. Freitas, Lalit Sehgal, Philip N. Tsiichlis. 2022. "The epigenetic factor KDM2B regulates nucleotide metabolism under normoxia and hypoxia in triple negative breast cancer". Cold Spring Harbor laboratories (CSHL) Meeting: Mechanisms & Models of Cancer. CSHL, New York, August 2022.

Evangelia Chavdoula, Vollter Anastas, Alessandro La Ferlita, Julian Aldana, Anuvrat Sircar, Michael A. Freitas, Lalit Sehgal, Philip N. Tsiichlis. 2022. Abstract 3019: "The epigenetic factor KDM2B alters the serine-glycine synthesis pathway and the one-carbon metabolism (SGOC) in triple-negative breast cancer". AACR conference, New Orleans, April 2022. *Cancer Res* (2022) 82 (12_Supplement): 3019. <https://doi.org/10.1158/1538-7445.AM2022-3019>

Vollter Anastas, **Evangelia Chavdoula**, Elia Aguado-Fraile, Alessandro La Ferlita, Ilaria Cosentini, Giovanni Nigita, Dario Palmieri, Michael G. Kearse, Philip N. Tsiichlis. 2022. "The lysine demethylase KDM2B controls global and mRNA-specific translation by regulating

ribosome biogenesis". Cold Spring Harbor laboratories (CSHL) Meeting: Translational Control. CSHL, New York, September 2022.

Vollter Anastas, **Evangelia Chavdoula**, Elia Aguado-Fraile, Alessandro La Ferlita, Dario Palmieri, Michael G. Kearse, Philip N. Tsichlis. 2022. "The role of KDM2B in regulating ribosomal biogenesis and mRNA translation". APA/ASCI/APSA Joint Meeting, Chicago, 2022.

Paraskevopoulou V., **Chavdoula E.**, Klinakis A. 2017. "The role of Notch pathway in bladder stem cell homeostasis". The Notch Meeting X 1-5 October 2017, Athens, Greece.

Chavdoula E., Roupakia E., Markopoulos G., Kokkalis A., Polyzos A., Thanos D., Klinakis A., Marcu K.B. and Kolettas E. 2016. IKK α and IKK β have different functional roles in urethane-induced lung carcinogenesis. 3rd European NF-kappaB Subunit Workshop, Corfu, Greece.

Roupakia E.*, **Chavdoula E.***, Markopoulos G.S., Fackelmayer F., Klinakis A., Marcu K.B., Kolettas E. 2016. Loss of IKK β reduces cell proliferation and impairs lung cancer development. 67th Conference of the Hellenic Society of Biochemistry & Molecular Biology, Ioannina, Greece. (* Equal Contribution).

Chavdoula E., Roupakia E., Markopoulos G.S., Kokkalis A., Polyzos A., Fackelmayer F., Thanos D., Klinakis A., Kolettas E. 2016. Functional role of IKK α in non-small cell lung carcinogenesis. 67th Conference of the Hellenic Society of Biochemistry & Molecular Biology, Ioannina, Greece.

Chavdoula E., Stathopoulos G., Marcu K.B., Klinakis A., and Kolettas E. 2015. Deletion of IKK β Reduces Urethane-Induced Lung Tumor Development in Mice. 66th Conference of the Hellenic Society of Biochemistry & Molecular Biology, Athens, Greece.

REVIEWER

-01/2021-present:

- 1) MDPI journals: Cancers, Cells, IJMS, Life, Biomedicines, Genes
- 2) BMC Cancer
- 3) Metabolism
- 4) PeerJ

FOREIGN LANGUAGES

English: Excellent-Certificate of Proficiency in English, University of Michigan

German: Basic level-Grundstufe, Goethe-Institut