EMN Live Webinars

THURSDAY, 12TH JANUARY 2023

11:00 UTC, 12:00 CET

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Webinar Title: "Exosomal metabolomics in health and disease"

Exosomes are nanoscale entities, being informative based on their size, number, morphology, and molecular content of their cell of origin and cell-recipient.

In this webinar, we will briefly discuss with Dr. Theodora Katsila and Vivi Bafiti some of the most recent advances in the field of exosomes as circulating translational biomarkers of choice when inter-individual variability, drug resistance, and adverse drug reactions are considered. "To us, seeing is believing. At the same time, by understanding the fundamental flaws in our perceptions, we become more aware via metabolomics. For this, we are connecting the dots upon wet- and dry-lab pipelines to map "circulating" metabolic networks in exosomes coming from biological fluids and 3D cell culture set-ups".

Dr. Theodora Katsila.

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Dr. Theodora Katsila is a Research Assistant Professor-Head of the Biomarker Discovery & Translational Research (BDTR) laboratory at ICB/NHRF. Her team applies I) mass spectrometry-based multi-omics and exosomal profiling, II) 3D cell models and cheminformatics, III) ADME-Tox in 3D, and IV) machine learning, deep learning and computational statistics to disrupt healthcare solutions and empower biomedical innovation. Dr. Katsila is a prolific author, editor, and speaker; a recipient of corporate grants; an award-winning scientist; and a co-inventor of a patent. Author of 99 publications (Scopus H-index=20), 10 international and 1 national scientific books.

Vivi Bafiti

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Vivi Bafiti, is a PhD Student at BDTR laboratory at ICB/NHRF, under the supervision of Dr. Theodora Katsila and Prof. Dimitrios Kardamakis (University of Patras, Greece). She has received her BSc in Biology (University of Crete, Greece) and her MSc in "Oncology: From Oncogenesis to Therapy" (University of Crete, NHRF). Her career choices are based on the prospects of linking Molecular Biology with clinical practice leading to her PhD research project entitled "Deciphering oncometabolism and tumor-derived exosomes toward *in silico, in vitro* and *in vivo* drug repurposing in glioblastoma multiforme". Her expertise lies in wet- and dry-lab biocompatibility pipelines (3D cell models, Proteomics-based x-omics, ADME- Tox profiling in 3D, and cheminformatics) with emphasis on cell microenvironment and single or global cell responses. Author of 3 publications, selected oral presenter in a national conference and poster presenter in 3 international conferences.

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