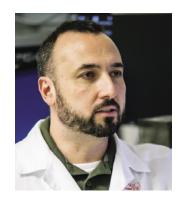
CHRISTOS CHINOPOULOS



Semmelweis University Faculty of Medicine Department of Biochemistry

Address: Tűzoltó u. 37-47., H-1094 Budapest, Hungary

RESEARCH AREA

Alterations in oncometabolism are substantiated by changes in protein expression 'rewiring' certain metabolic pathways, providing an excellent opportunity for cancerspecific therapeutic intervention. Identifying those proteins involved in bioenergetic pathways that are up- or downregulated in order to serve the needs of neoplasia, is crucial for beating cancer.

TECHNIQUES AVAILABLE IN THE LAB

Mitochondrial isolation
Mitochondrial respiration
Mitochondrial membrane potential estimation
Mitochondrial Q redox state estimation
Mitochondrial NAD/NADH ration estimation
Cell culturing
Epifluorescence imaging
Western blotting
Reverse Phase Protein Array

SELECTED PUBLICATIONS

Seyfried, T.N., Arismendi-Morillo, G., Mukherjee, P., Chinopoulos, C. (2020) On the Origin of ATP Synthesis in Cancer. iScience 23: 101761.

Chinopoulos, C. (2020) Acute sources of mitochondrial NAD+ during respiratory chain dysfunction. **Exp Neurol 327:** 113218.

Dobolyi, A., Bago, A., Palkovits, M., Nemeria, N.S., Jordan, F., Doczi, J., Ambrus, A., Adam-Vizi, V., **Chinopoulos, C.** (2020) Exclusive neuronal detection of KGDHC-specific subunits in the adult human brain cortex despite pancellular protein lysine succinylation. **Brain Struct Funct 225:** 639-667.

Chinopoulos, C. (2020) Quantification of mitochondrial DNA from peripheral tissues: Limitations in predicting the severity of neurometabolic disorders and proposal of a novel diagnostic test. Mol Aspects Med 71: 100834.

Chen, E., Kiebish, M.A., McDaniel, J., Niedzwiecka, K., Kucharczyk, R., Ravasz, D., Gao, F., Narain, N.R., Sarangarajan, R., Seyfried, T.N., Adam-Vizi, V., Chinopoulos, C. (2018) Perturbation of the yeast mitochondrial lipidome and associated membrane proteins following heterologous expression of Artemia-ANT. Sci Rep 18: 5915.