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RESEARCH AREA

Alterations in oncometabolism are substantiated by changes in protein expression 'rewiring' certain metabolic pathways, providing an excellent opportunity for cancer-specific 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.