OVERVIEW

The MCW Cancer Center Bioenergetics Shared Resource opened in January 2012 and became fully operational in February 2012. The facility is located in the Department of Biophysics in MFRC 2013.

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Shared Resource
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Jacek Zielonka, Ph.D. ±Research Scientist II ‡ ([SHRO%/Mass Spectrometry/HPLC

Michael Mouradian, Ph.D. ±Post Doctoral Fellow ‡Expert in cancer metabolism and bioenergetics ‡Conducts consultations and experiments for the Shimadzu 8030 LC MS/MS

Steve Komas ±Lab Manager/Technologist ‡Conducts all consultations and experiments for the Seahorse XF96 Example 1: Bioenergetic analysis of combining mitochondria -targeted drugs with 2 -deoxyglucose in breast cancer cells

μg of protein (B) 2-D map of OCR and ECAR in PDAC cell lines. (C) Intracellular ATP levels in specified cell lines treated with 2-DG as indicated for 24 hours. (D) Relationship between basal ECAR value and 2-DG induced ATP loss (normalized to protein). Values are mean±SD (n=4-6). [Cheng G et al. Br J Cancer. 2014. May:4-6].

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