

Supplementary Tables

Energy transfer from adipocytes to cancer cells in breast cancer

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Table S1. General information of used breast cancer cell lines

| | MCF-7 | MDA-MB-453 | MDA-MB-435 | MDA-MB-231 | MDA-MB-486 |
|--------------------------|---|--|---|--|--|
| Organism | Homo sapiens, human | Homo sapiens, human | Homo sapiens, human | Homo sapiens, human | Homo sapiens, human |
| Tissue | Mammary gland, breast; derived from metastatic site: pleural effusion | Mammary gland/breast; derived from metastatic site: pericardial effusion | Previously described as: mammary gland/breast; derived from metastatic site: pleural effusion | Mammary gland/breast; derived from metastatic site: pleural effusion | Mammary gland/breast; derived from metastatic site: pleural effusion |
| Disease | Adeno-carcinoma | Metastatic carcinoma | Previously described as ductal carcinoma | Adeno-carcinoma | Adeno-carcinoma |
| Cell type | Epithelial | | Melanocyte, Melanoma | Epithelial | |
| Gender | Female | Female | Female | Female | Female |
| Ethnicity | Caucasian | Caucasian | Caucasian | Caucasian | Black |
| Molecular subtype | Luminal | HER-2 | Basal-like | Claudin-Low | Molecular apocrine |

Table S2. Primer sequences used for quantitative real-time PCR

| Gene | Sequences | Tm |
|-------|--|-------|
| CPT1a | F: TCAGGCCTATTTTGGACGTG R: TGACGTATCCGGGTCTTCAC | 60 °C |
| ACOX1 | F: TCTTCACTTGGGCATGTTCC R: CCCATCTCTGTCTGGGCATA | 60 °C |
| FABP4 | F: CATACTGGGCCAGGAATTTG R: TGGTGGTTGATTTTCCATCC | 60 °C |

Abbreviations: CPT1a - carnitine palmitoyltransferase 1a; ACOX1 - Acyl-CoA oxidase 1; FABP4 - fatty acid binding protein 4

Table S3. Source, clone, and dilution of used antibodies

| Antibody | Clone | Dilution | Company | Cat. number |
|--------------------------|------------|----------|----------------------|-------------|
| <i>Lipolysis-related</i> | | | | |
| HSP | Polyclonal | 1:100 | Abcam, Cambridge, UK | ab45422 |
| Perillipin A | Polyclonal | 1:100 | Abcam, Cambridge, UK | ab61682 |
| FABP4 | Polyclonal | 1:100 | Abcam, Cambridge, UK | ab13979 |
| CPT1A | 8F6AE9 | 1:200 | Abcam, Cambridge, UK | ab128568 |
| Acyl-CoA oxidase 1 | Polyclonal | 1:50 | Abcam, Cambridge, UK | ab128549 |
| FAS | EPR7466 | 1:200 | Abcam, Cambridge, UK | ab128870 |

Abbreviations: ER - progesterone receptor; PR - progesterone receptor; HER-2 - human epidermal growth factor type 2; HSL - hormone-sensitive lipase; FABP4 - fatty acid binding protein 4; CPT1A - carnitine palmitoyltransferase 1A; FAS - fatty acid synthase