

Accepted Manuscript

Deciphering Metabolic Rewiring in Breast Cancer Subtypes

Martin P. Ogrodzinski, Jamie J. Bernard, Sophia Y. Lunt



PII: S1931-5244(17)30234-7

DOI: [10.1016/j.trsl.2017.07.004](https://doi.org/10.1016/j.trsl.2017.07.004)

Reference: TRSL 1174

To appear in: *Translational Research*

Received Date: 3 April 2017

Revised Date: 2 June 2017

Accepted Date: 11 July 2017

Please cite this article as: Ogrodzinski MP, Bernard JJ, Lunt SY, Deciphering Metabolic Rewiring in Breast Cancer Subtypes, *Translational Research* (2017), doi: 10.1016/j.trsl.2017.07.004.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Deciphering Metabolic Rewiring in Breast Cancer SubtypesMartin P. Ogrodzinski,^{1,2} Jamie J. Bernard,³ and Sophia Y. Lunt^{1*}

¹Department of Biochemistry and Molecular Biology, Michigan State University, East Lansing, MI 48824, USA

²Department of Physiology, Michigan State University, East Lansing, MI 48824, USA

³Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI 48824

*Correspondence: sophia@msu.edu (S.Y.L)

Running head: Metabolic Rewiring in Breast Cancer Subtypes

Abbreviations: ACL =ATP citrate lyase; Akt = Protein kinase B; ASCT2 = Alanine, serine, cysteine-preferring transporter 2; ASS = Argininosuccinate synthetase; BMI = Body mass index; CAF = Cancer associated fibroblasts; CPT1 = Carnitine palmitoyltransferase-1; EGFR = Epidermal growth factor receptor; ER = Estrogen receptor; FASN = Fatty acid synthase; GPC = Glycerophosphocholine; HER2 = Human epidermal growth factor receptor 2; HFD = High-fat diet; HIF-1 = Hypoxia-inducible factor-1; HIFs = Hypoxia inducible factors; IBC = Inflammatory breast cancer; IGF-1 = Insulin-like growth factor 1; LDH = Lactate dehydrogenase; MCT = Monocarboxylate transporter; MTHFD1L = Methylenetetrahydrofolate dehydrogenase 1-like; MTHFD2 = Methylenetetrahydrofolate dehydrogenase 2; mTOR = Mammalian target of rapamycin; NMR = Nuclear magnetic resonance; OTC = Ornithine transcarbamylase; PAM50 = Prediction analysis of microarray 50; PCho = Phosphocholine; PDX = Patient-derived xenograft; PHGDH = Phosphoglycerate dehydrogenase; PI3K = Phosphatidylinositol 3-kinase; PKM1 =

Download English Version:

<https://daneshyari.com/en/article/8769067>

Download Persian Version:

<https://daneshyari.com/article/8769067>

[Daneshyari.com](https://daneshyari.com)