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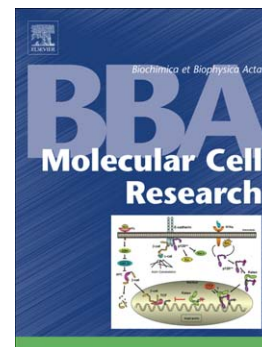
Endoplasmic reticulum-mitochondria calcium signalling in hepatic metabolic diseases

Jennifer Rieusset

PII: S0167-4889(17)30003-4  
DOI: doi:[10.1016/j.bbamcr.2017.01.001](https://doi.org/10.1016/j.bbamcr.2017.01.001)  
Reference: BBAMCR 18026

To appear in: *BBA - Molecular Cell Research*

Received date: 7 October 2016  
Revised date: 21 December 2016  
Accepted date: 2 January 2017



Please cite this article as: Jennifer Rieusset, Endoplasmic reticulum-mitochondria calcium signalling in hepatic metabolic diseases, *BBA - Molecular Cell Research* (2017), doi:[10.1016/j.bbamcr.2017.01.001](https://doi.org/10.1016/j.bbamcr.2017.01.001)

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**Endoplasmic reticulum-mitochondria calcium signalling in hepatic metabolic diseases**Jennifer Rieusset<sup>1</sup><sup>1</sup>INSERM UMR-1060, CarMeN Laboratory, Lyon 1 University, INRA U1397, F-69921 Oullins.

Corresponding author: RIEUSSET, J.  
 Address: UMR INSERM U1060  
 Faculté de médecine Lyon-Sud  
 165 chemin du grand Revoynet, BP12,  
 69921 Oullins cedex, France

Phone number: 33 (0)4 26 23 59 20  
 Fax: 33 (0)4 26 23 59 16  
 E-mail: [jennifer.rieusset@univ-lyon1.fr](mailto:jennifer.rieusset@univ-lyon1.fr)

**Abbreviations:** ATP: adenosine triphosphate; Ca<sup>2+</sup>: calcium; CamK: calmodulin-dependent kinase; ChREBP: carbohydrate response element binding protein; CypD: cylophilin D; DGAT2: diacylglycerol acyltransferase 2; ER: endoplasmic reticulum; FOXO1: Forkhead box O1; G6P: glucose 6-phosphate; G6Pase: glucose 6-phosphatase; GCK: glucokinase; GLUT2: glucose transporter, isoform 2; GRP75: glucose-regulated protein 75; GS: glycogen synthase; IP3: inositol triphosphate; IP3R: inositol triphosphate receptor; IRS: insulin receptor substrate; JNK: c-Jun N-terminal kinase; Mfn2: mitofusin 2; NADH: reduced nicotinamide adenine nucleotide; NAFLD: non-alcoholic fatty liver disease; NASH: non-alcoholic steatohepatitis; MAM: mitochondria-associated membranes; MAVS: mitochondrial antiviral-signaling protein; MEF: mouse embryonic fibroblasts; mTORC1/2: mammalian target of rapamycin complex 1 or 2; OXPHOS: oxidative phosphorylation; PACS2: phosphofurin acidic cluster sorting protein 2; PEP: phosphoenolpyruvate; PEPCK: phosphoenolpyruvate carboxykinase; PK: pyruvate kinase; PKA: protein kinase A; PKR: double-strand RNA-dependent protein kinase; PML: promyelocytic leukaemia; POMC: pro-opiomelanocortin, PP: pentose phosphate; PP2A: protein phosphatase 2A; R5P: ribulose 5-phosphate; T2DM: type 2 diabetes mellitus; TCA: tricarboxylic acid; TG: triglyceride; UPR: unfolded protein response; VDAC: voltage-dependent anion channel;

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