

Hartwig et al., 2020

Supplementary Material

1 Supplementary Method

Analysis of MAP1LC3A gene expression

Total RNA was extracted (RNeasy® Mini Kit QIAGEN®) according to the manufacturer's instructions. cDNA was prepared by reverse transcription and real-time PCR was performed using TaqMan® Universal PCR Master Mix (Applied Biosystems) and TaqMan® Gene Expression Assays for *MAP1LC3A* and 18S rRNA (Applied Biosystems). Analyses was performed with the ABI7200 and software Step One Plus as absolute quantification according to manufacturer's instruction. Relative expression was analyzed using the $\Delta\Delta$ CT method and normalized against 18S rRNA.

Univariate analysis was performed using Wilcoxon matched-pairs signed rank test (Wilcoxon test). P values were calculated in a one-tailed manner.

2 Supplementary Figures

2.1 Supplementary Figure 1

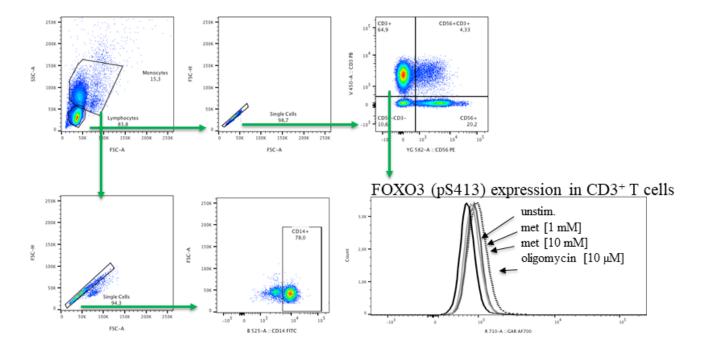


Figure S1: Representative gating strategy along with FOXO3 (pS413) expression in CD3⁺T cells. Histogram is showing FOXO3 (pS413) expression after 30 min of stimulation with metformin [1mM, 10 mM] and oligomycin [10 μ M].

2.2 Supplementary Figure 2

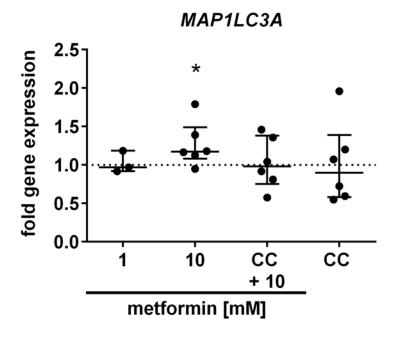


Figure S2: Gene expression of autophagic marker LC3 is induced by metformin. (A) RNA expression analysis of the gene *MAP1LC3A* after 3 h incubation with different dosages of metformin alone or in combination with Compound C (CC) [10 μ M] (n=3-6). Gene expression was normalized to 18S rRNA and is depicted as fold induction to unstimulated control. Median with interquartile range is shown and significance was evaluated using a one-tailed Wilcoxon test. *P ≤ 0.05

Supplementary Table

Nr.	rs12212067	rs2802992	rs12206094
1	т/т	G/G	C/C
2	т/т	G/T	C/T
3	т/т	G/T	C/T
4	Т/Т	т/т	C/C
5	T/T	Т/Т	C/C
6	Т/Т	G/G	C/T
7	т/т	G/T	C/C
8	G/T	G/T	C/T
9	G/T	G/G	T/T
10	Т/Т	G/T	C/T
11	G/T	G/T	C/T
12	Т/Т	G/T	C/T
13	Т/Т	G/T	C/T
14	G/G	G/G	C/T
15	т/т	G/T	C/T
16	т/т	T/T	C/C
17	т/т	G/T	С/Т
18	G/T	G/G	T/T
19	Т/Т	Т/Т	C/C
20	G/T	G/T	C/C
21	Т/Т	G/T	C/T
22	G/T	G/T	C/T
23	Т/Т	т/т	C/C
24	т/т	Т/Т	C/C
25	G/T	G/G	C/T
26	G/T	G/T	C/C
27	т/т	G/T	C/T
28	т/т	G/T	C/C
29	т/т	G/T	C/T
30	Т/Т	G/T	C/C
31	т/т	G/G	C/T
32	G/T	G/T	C/T
33	T/T	T/T	C/C
34	Т/Т	Т/Т	C/C
35	T/T	Т/Т	C/C
36	G/T	G/G	Т/Т
37	т/т	G/G	C/T
38	т/т	G/T	C/T
39	G/T	G/T	C/T
40	т/т	G/G	Т/Т
41	T/T	T/T	C/C
42	T/T	Т/Т	C/C
	T/T n=30	T/T n=11	C/C n=17
	G/T n=11	G/T n=21	C/T n=21
	G/G n=1	G/G n=10	T/T n=4
	0/0/1 I	5,011 10	.,