Figure 2. Seahorse Mitochondrial Stress Test, HUVEC cells, 24hr post fatty acid exposure

Basal respiration (OCR, pmol/min)

	Control	OA 50µM	OA 100µM	100µM methyl-OA	100µM 12-OH OA	OA 250µM
n	8	8	8	5	5	8
Mean	54.88	46.63	46.13	46.80	12.20	30.25
Std. Deviat	12.33	11.26	14.79	14.31	8.38	18.81
Std. Error c	4.36	3.98	5.23	6.40	3.75	6.65

Maximal respiration (OCR, pmol/min)

	Control	OA 50µM	OA 100µM	100µM methyl-OA	100µM 12-OH OA	OA 250µM
n	8	8	8	5	5	8
Mean	96.70	86.00	81.13	90.60	29.12	56.25
Std. Deviat	16.48	24.14	27.75	19.96	20.00	39.64
Std. Error c	5.83	8.54	9.81	8.93	8.94	14.01

Proton leak (OCR, pmol/min)

	Control	OA 50µM	OA 100µM	100µM methyl-OA	100µM 12-OH OA	OA 250µM
n	8	8	8	5	5	8
Mean	11.39	10.88	11.50	12.40	7.30	9.13
Std. Deviat	3.33	3.72	2.67	4.04	5.40	6.18
Std. Error c	1.18	1.32	0.94	1.81	2.42	2.18

Spare respiratory capacity (percent of basal respiratory capacity)

	Control	OA 50µM	OA 100µM	100µM methyl-OA	100µM 12-OH OA	OA 250µM
n	8	8	8	5	5	8
Mean	162.80	165.90	152.60	168.80	133.90	132.90
Std. Deviat	18.26	20.99	31.25	11.73	66.02	60.29
Std. Error c	6.46	7.42	11.05	5.25	29.52	21.32

ATP production (OCR, pmol/min)

	Control	OA 50µM	OA 100µM	100µM methyl-OA	100µM 12-OH OA	OA 250µM

n	8	8	8	5	5	8
Mean	43.50	35.50	34.25	34.00	6.72	20.75
Std. Deviat	11.72	10.23	13.74	15.02	4.97	14.68
Std. Error c	4.14	3.62	4.86	6.72	2.22	5.19

Non-mitochondrial oxygen consumption (OCR, pmol/min)

	Control	OA 50µM	OA 100µM	100µM methyl-OA	100µM 12-OH OA	OA 250µM
n	8	8	8	5	5	8
Mean	12.10	11.63	11.63	12.40	11.88	12.38
Std. Deviat	6.98	5.21	6.61	6.11	8.57	8.77
Std. Error c	2.47	1.84	2.34	2.73	3.83	3.10

HUVEC= human umbilical vein endothelial cells
OA= oleic acid
methyl-OA= methylated oleic acid
12-OH OA= 12-hydroxy oleic aacid
µM micromolar
Std,= standard
n= number of independent experiments
pmol/min= picomoles per minute
OCR= oxygen consumption rate