

Supplementary Table 1: Statistical parameters of Independent Samples Test

		Levene's Test for Homoscedasticity		t-test for Equality of Means			Cohen's d
		F	Sig.	t	df	Sig. (2-tailed)	
Body weight	Equal variances assumed	5.00	0.056	6.53	8	0.000	4.13
	Equal variances not assumed			6.53	6.012	0.001	
Serum glucose level	Equal variances assumed	0.01	0.915	-1.30	8	0.228	0.82
	Equal variances not assumed			-1.30	7.624	0.23	
SM VOIs	Equal variances assumed	3.72	0.090	0.10	8	0.921	0.10
	Equal variances not assumed			0.10	4.457	0.923	
Myocardium VOIs	Equal variances assumed	5.01	0.056	0.45	8	0.666	0.44
	Equal variances not assumed			0.45	5.573	0.671	
SM SUVr	Equal variances assumed	2.93	0.125	-3.13	8	0.014	1.98
	Equal variances not assumed			-3.13	6.397	0.019	
Myocardial SUVr	Equal variances assumed	0.69	0.429	1.21	8	0.262	0.76
	Equal variances not assumed			1.21	7.730	0.263	
SM SUV	Equal variances assumed	18.56	0.003	-2.76	8	0.025	1.75
	Equal variances not assumed			-2.76	4.783	0.042	
Myocardial SUV	Equal variances assumed	0.47	0.511	0.97	8	0.361	0.61
	Equal variances not assumed			0.97	7.929	0.361	
Blood pool FDG concentration	Equal variances assumed	2.80	0.133	0.00	8	0.228	1.30
	Equal variances not assumed			-1.14	6.027	0.24	
SM FDG concentration	Equal variances assumed	4.30	0.072	-2.41	8	0.043	2.40
	Equal variances not assumed			-2.41	4.245	0.07	
Myocardial FDG concentration	Equal variances assumed	0.62	0.455	-0.10	8	0.922	0.10
	Equal variances not assumed			-0.10	6.283	0.922	
Ex vivo SM FDG uptake	Equal variances assumed	2.07	0.224	-6.16	4	0.004	5.03
	Equal variances not assumed			-6.16	2.557	0.014	
Ex vivo Heart FDG uptake	Equal variances assumed	1.11	0.352	0.67	4	0.541	0.67
	Equal variances not assumed			0.67	3.505	0.546	
CD86+ cells in SM	Equal variances assumed	4.16	0.111	-0.21	4	0.847	0.17
	Equal variances not assumed			-0.21	2.346	0.854	
CD11+ cells in SM	Equal variances assumed	2.77	0.171	-10.09	4	0.001	8.24
	Equal variances not assumed			-10.09	2.482	0.004	
CD206+ cells in SM	Equal variances assumed	0.00	0.973	-5.37	4	0.006	4.38
	Equal variances not assumed			-5.37	3.999	0.006	
HK of SM	Equal variances assumed	0.50	0.518	-0.16	4	0.884	0.13
	Equal variances not assumed			-0.16	3.423	0.885	
PFK of SM	Equal variances assumed	1.72	0.260	12.80	4	0.000	10.45
	Equal variances not assumed			12.80	2.816	0.001	
G6PD of SM	Equal variances assumed	0.85	0.408	-0.60	4	0.583	0.49
	Equal variances not assumed			-0.60	3.492	0.587	
H6PD of SM	Equal variances assumed	0.94	0.387	-3.70	4	0.021	3.02
	Equal variances not assumed			-3.70	2.852	0.037	
SM ER signal intensity	Equal variances assumed	0.82	0.415	0.02	4	0.983	0.02
	Equal variances not assumed			0.02	3.516	0.983	
SM 2-NBDG signal intensity	Equal variances assumed	7.93	0.048	-7.72	4	0.002	1.45
	Equal variances not assumed			-7.72	2.161	0.013	
% of ER voxels within 2-NBDG in SM	Equal variances assumed	4.81	0.093	-0.39	4	0.717	0.32
	Equal variances not assumed			-0.39	2.577	0.727	
% of 2-NBDG voxels within ER in SM	Equal variances assumed	0.00	0.982	-4.15	4	0.014	7.72
	Equal variances not assumed			-4.15	4	0.014	
NADPH in SM	Equal variances assumed	4.11	0.113	4.53	4	0.011	3.70
	Equal variances not assumed			4.53	2.736	0.024	
NADPH+NADP in SM	Equal variances assumed	0.00	0.995	-0.18	4	0.866	0.15
	Equal variances not assumed			-0.18	4.000	0.866	
GR activity of SM	Equal variances assumed	0.02	0.903	-3.99	4	0.016	3.26
	Equal variances not assumed			-3.99	3.980	0.016	
MDA content in SM	Equal variances assumed	3.42	0.138	-3.50	4	0.025	2.85
	Equal variances not assumed			-3.50	2.069	0.069	
H2DCFDA (MFI) in SM	Equal variances assumed	2.11	0.220	-10.35	4	0.000	8.45
	Equal variances not assumed			-10.35	2.220	0.006	
OCR of SM-mitochondria	Equal variances assumed	0.25	0.642	3.68	4	0.021	3.00
	Equal variances not assumed			3.68	3.752	0.024	
ATP synthesis of SM-mitochondria	Equal variances assumed	3.37	0.140	2.80	4	0.049	2.29
	Equal variances not assumed			2.80	2.167	0.098	
Complex I activity of SM-mitochondria	Equal variances assumed	2.53	0.187	-3.34	4	0.029	2.72
	Equal variances not assumed			-3.34	2.520	0.057	
Mfn2 expression in SM	Equal variances assumed	0.85	0.409	3.02	4	0.039	2.47
	Equal variances not assumed			3.02	3.640	0.044	
Drp1 expression in SM	Equal variances assumed	8.11	0.047	-6.15	4	0.004	5.02
	Equal variances not assumed			-6.15	2.228	0.019	
Calnexin expression in SM	Equal variances assumed	0.98	0.378	-0.05	4	0.964	0.04
	Equal variances not assumed			-0.05	2.861	0.965	
HK activity of Heart	Equal variances assumed	0.03	0.877	0.74	4	0.501	0.60
	Equal variances not assumed			0.74	3.949	0.502	
PFK activity of Heart	Equal variances assumed	4.34	0.106	-0.22	4	0.837	0.18
	Equal variances not assumed			-0.22	2.590	0.843	
G6PD activity of Heart	Equal variances assumed	0.78	0.428	0.92	4	0.411	0.75
	Equal variances not assumed			0.92	3.467	0.419	
H6PD activity of Heart	Equal variances assumed	0.88	0.403	-0.23	4	0.828	0.19
	Equal variances not assumed			-0.23	3.383	0.83	
GR activity of Heart	Equal variances assumed	12.02	0.026	-0.93	4	0.408	0.75
	Equal variances not assumed			-0.93	2.037	0.451	

MDA content in Heart	Equal variances assumed	4.41	0.104	1.03	4	0.362	0.84
	Equal variances not assumed			1.03	2.374	0.397	
H2DCFDA (MFI) in Heart	Equal variances assumed	1.17	0.340	-0.51	4	0.638	0.51
	Equal variances not assumed			-0.51	3.496	0.642	
OCR of Heart-mitochondria	Equal variances assumed	2.30	0.204	2.91	4	0.043	2.38
	Equal variances not assumed			2.91	3.039	0.061	
ATP synthesis of Heart-mitochondria	Equal variances assumed	15.93	0.016	1.01	4	0.371	0.82
	Equal variances not assumed			1.01	2	0.42	
Complex I activity of Heart-mitochondria	Equal variances assumed	1.93	0.238	-1.32	4	0.257	1.08
	Equal variances not assumed			-1.32	2.948	0.28	