

Supplementary Table I

	MEF WT	MEF P2X7-KO	Unpaired t test
Basal Respiration	376,0 ± 25,77 N=3	258,7 ± 33,33 N=3	P value= 0,0496 d.f= 4
ATP Production	302,7 ± 28,10 N=3	195,0 ± 25,94 N=3	P value= 0,0481 d.f= 4
Maximal Respiratory Rate	769,3 ± 104,9 N=3	305,7 ± 37,17 N=3	P value= 0,0141 d.f= 4
Spare Respiratory Capacity	434,7 ± 89,89 N=3	82,67 ± 3,180 N=3	P value= 0,0173 d.f= 4
Uncoupling Level	68,67 ± 7,172 N=3	63,67 ± 10,84 N=3	n.s

	N13 WT	N13 R	Unpaired t test
Basal Respiration	938,7 ± 82,60 N=3	143,3 ± 48,46 N=3	P value= 0,0011 d.f= 4
ATP Production	816,7 ± 59,89 N=3	313,0 ± 114,6 N=3	P value= 0,0176 d.f= 4
Maximal Respiratory Rate	4025 ± 300,9 N=3	1565 ± 243,7 N=3	P value= 0,0031 d.f= 4
Spare Respiratory Capacity	3087 ± 318,2 N=3	1421 ± 212,8 N=3	P value= 0,0121 d.f= 4
Uncoupling Level	221,3 ± 13,87 N=3	171,0 ± 84,54 N=3	n.s

	Microglia WT	Microglia P2X7KO	Unpaired t test
Basal Respiration	616,3 ± 96,67 N=3	248,3 ± 4,096 N=3	P value= 0.0191 d.f= 4
ATP Production	597,0 ± 72,11 N=3	239,0 ± 7,234 N=3	P value= 0,0078 d.f= 4
Maximal Respiratory Rate	1663 ± 257,5 N=3	435,3 ± 14,62 N=3	P value= 0,0089 d.f= 4
Spare Respiratory Capacity	1381 ± 118,6 N=3	188,0 ± 10,26 N=3	P value= 0.0006 d.f= 4
Uncoupling Level	57,00 ± 1,155 N=3	9,333 ± 3,383 N=3	P value=0.0002 d.f=4

	HEK293-P2X7	HEK293	Unpaired t test
Basal Respiration	107,9 ± 5,974 N=6	78,57 ± 3,205 N=7	P value=0,0009 d.f=11
ATP Production	73,81 ± 5,487 N=6	51,30 ± 2,350 N=7	P value= 0,0021 d.f= 11
Maximal Respiratory Rate	156,7 ± 11,76 N=6	93,69 ± 3,845 N=7	P value= 0,0002 d.f= 11
Spare Respiratory Capacity	48,78 ± 8,730 N=6	15,12 ± 4,040 N=7	P value= 0,0036 d.f= 11
Uncoupling Level	34,10 ± 0,8806 N=6	27,27 ± 1,630 N=7	P value=0,0049 d.f=11

Supplementary Table II

	CTRL	BzATP	Unpaired t test
CTRL vs. BZATP 10 min	0,7487 ± 0,02080 N=7	0,8478 ± 0,01876 N=10	P value = 0,0033 d.f=15
CTRL vs. BZATP 1 H	0,7487 ± 0,02080 N=7	0,9293 ± 0,02230 N=8	P value = 0,0001 d.f= 13
CTRL vs. BZATP 6H	0,7487 ± 0,02080 N=7	0,8801 ± 0,02092 N=11	P value = 0,0006 d.f= 16

	CTRL	Rotenone	Unpaired t test
CTRL vs. Rotenone 10 min	0,7487 ± 0,02080 N=7	0,7877 ± 0,02371 N=7	n.s
CTRL vs. Rotenone 1 H	0,7487 ± 0,02080 N=7	0,8836 ± 0,008011 N=7	P value = 0,0001 d.f= 12
CTRL vs. Rotenone 6H	0,7487 ± 0,02080 N=7	0,7639 ± 0,05414 N=7	n.s

	CTRL	H₂O₂	Unpaired t test
CTRL vs. H ₂ O ₂ 10 min	0,7487 ± 0,02080 N=7	0,8720 ± 0,01481 N=8	P value = 0,0003 d.f=13
CTRL vs. H ₂ O ₂ 1 H	0,7487 ± 0,02080 N=7	0,7936 ± 0,02162 N=7	n.s
CTRL vs. H ₂ O ₂ 6H	0,7487 ± 0,02080 N=7	0,8716 ± 0,01225 N=7	P value = 0,0003 d.f= 12