Percentage change in pathway flux

		3		- 100
Objective Function - ATP	0	-29	-34	100
Electron transport chain	0	-27	-33	Q
Mitochondrial transporters - characterised	-0	-29	-34	-75 K
TCA cycle	-0	-25	-34	high
GABA shunt Malate aspartate shuttle Glycolysis / gluconeogenesis Fatty acid and ketone body metabolism	0	1000	0	-50 C
	-0	24	-7	و
	-1	-8	-8	-25 <u>si</u>
	-1	-19	-16	×
Reductive carboxylation	-100	0	50	-0 y flu
Carnitine shuttle	-1	-19	-14	hwa
Serine and glycine biosynthesis	-90	243	329	25 de
Glycine cleavage system	-92	0	145	olute
Mitochondrial transporters - uncharacterised Tryptophan / Lysine metabolism Glutamate degradation / synthesis	-49	369	35	absolute pathway flux relative
	0	-71	-71	e Ei
	0	-32	-26	75 Change
Lysine degradation	0	-71	-71	1 5
Ketogenesis / Leucine degradation	0	-46	-46	100
	293mitoPARP high NAD	HEK293 low NAD	293mitoPARP low NAD	