Soleus Synthesis Rates (k(1/day))																								
	HCR Con				HCR MET				HCR WO				LCR Con				LCR MET				LCR WO			
Ndufa2	0.0005	±	0.000		0.0000	±	0.000		0.0259	±	0.007	‡	0.0000	±	0.000		0.0124	±	0.006	$	0.0304	±	0.015	‡
Ndufa4	0.0867	±	0.014		0.0897	±	0.016		0.0866	±	0.013		0.1021	±	0.033		0.1131	±	0.025		0.1003	±	0.020	
Ndufa5	0.0448	±	0.022		0.0321	±	0.010		0.0257	±	0.004		0.0462	±	0.004		0.0434	±	0.026		0.0306	±	0.007	
Ndufa6	0.1138	±	0.006		0.1115	±	0.008		0.1225	±	0.009		0.0685	±	0.008		0.1285	±	0.015	$	0.1221	±	0.011	$
Ndufa7	0.0575	±	0.005		0.0724	±	0.008	$	0.1020	±	0.016	‡	0.0773	±	0.014		0.0947	±	0.011	$	0.1140	±	0.006	‡
Ndufa8	0.0273	±	0.008		0.0199	±	0.008		0.0274	±	0.010		0.0207	±	0.009		0.0254	±	0.011	$	0.0299	±	0.008	†
Ndufa9	0.0747	±	0.020		0.0678	±	0.025		0.0628	±	0.017		0.0612	±	0.020		0.1220	±	0.068		0.0743	±	0.021	
Ndufa10	0.0586	±	0.010		0.0655	±	0.015		0.0670	±	0.011		0.0654	±	0.034		0.0643	±	0.015		0.0664	±	0.014	
Ndufa11	0.0795	±	0.012		0.1179	±	0.024	$	0.1033	±	0.011		0.1218	±	0.013		0.0857	±	0.032	$	0.1179	±	0.009	†
Ndufa12	0.0421	±	0.008		0.0591	±	0.008	$	0.0499	±	0.004		0.0431	±	0.006		0.0673	±	0.011	$	0.0624	±	0.009	$
Ndufa13	0.0627	±	0.007		0.0751	±	0.019		0.0489	±	0.008	†	0.0594	±	0.008		0.0686	±	0.017		0.0766	±	0.006	$
Ndufb5	0.0299	±	0.004		0.0294	±	0.004		0.0381	±	0.004	‡	0.0296	±	0.004		0.0543	±	0.005	$	0.0460	±	0.004	‡
Ndufb7	0.0509	±	0.008		0.0516	±	0.012		0.0789	±	0.015	‡	0.0691	±	0.013		0.0755	±	0.017		0.0912	±	0.024	$
Ndufb10	0.0302	±	0.015		0.0156	±	0.015		0.0270	±	0.018		0.0256	±	0.025		0.0377	±	0.020		0.0309	±	0.011	
Ndufb11	0.0285	±	0.004		0.0258	±	0.004		0.0334	±	0.002	†	0.0226	±	0.004		0.0321	±	0.004	$	0.0357	±	0.002	$
Ndufc2	0.0409	±	0.004		0.0330	±	0.004	$	0.0414	±	0.004	‡	0.0327	±	0.004		0.0406	±	0.007	$	0.0462	±	0.003	‡
Nd1	0.0158	±	0.003		0.0251	±	0.010		0.0325	±	0.010	$	0.0157	±	0.002		0.0297	±	0.017	$	0.0352	±	0.012	$
Nd4	0.0074	±	0.004		0.0035	±	0.002		0.0173	±	0.009	‡	0.0000	±	0.000		0.0000	±	0.000		0.0134	±	0.007	‡
Nd5	0.0284	±	0.007		0.0312	±	0.010		0.0486	±	0.002	‡	0.0345	±	0.005		0.0324	±	0.009		0.0519	±	0.001	‡
Ndufs1	0.0633	±	0.008		0.0590	±	0.011		0.0663	±	0.009		0.0552	±	0.007		0.0694	±	0.010	$	0.0759	±	0.011	$
Ndufs2	0.0318	±	0.003		0.0398	±	0.007	$	0.0433	±	0.007	$	0.0374	±	0.004		0.0359	±	0.005		0.0498	±	0.004	‡
Ndufs3	0.0542	±	0.006		0.0580	±	0.008		0.0602	±	0.009		0.0528	±	0.006		0.0702	±	0.012	$	0.0652	±	0.012	$
Ndufs5	0.0485	±	0.011		0.0366	±	0.009		0.0579	±	0.005	†	0.0505	±	0.007		0.0562	±	0.012		0.0576	±	0.010	
Ndufs6	0.0803	±	0.008		0.1198	±	0.031	$	0.0802	±	0.015	†	0.0877	±	0.010		0.0824	±	0.023		0.0933	±	0.010	
Ndufs7	0.0838	±	0.022		0.0919	±	0.012		0.1090	±	0.023		0.0799	±	0.020		0.1026	±	0.035		0.1027	±	0.018	
Ndufs8	0.0468	±	0.005		0.0409	±	0.007		0.0466	±	0.003		0.0504	±	0.007		0.0542	±	0.006		0.0481	±	0.004	
Ndufv1	0.0654	±	0.005		0.0463	±	0.012		0.0743	±	0.006		0.0797	±	0.025		0.0932	±	0.006	$	0.0720	±	0.010	
Ndufv2	0.0735	±	0.013		0.0780	±	0.015		0.0693	±	0.012		0.0658	±	0.010		0.0933	±	0.017	$	0.0752	±	0.007	†
SdhA	0.0602	±	0.014		0.0608	±	0.011		0.0688	±	0.010		0.0621	±	0.012		0.0682	±	0.017		0.0741	±	0.011	
SdhB	0.0822	±	0.029		0.0714	±	0.017		0.0731	±	0.010		0.0494	±	0.012		0.0686	±	0.023		0.0773	±	0.013	
SdhC	0.0512	±	0.013		0.0518	±	0.023		0.0604	±	0.011		0.0536	±	0.019		0.0509	±	0.016		0.0525	±	0.008	
Cyc1	0.0485	±	0.002		0.0466	±	0.003		0.0529	±	0.005		0.0421	±	0.008		0.0512	±	0.008		0.0499	±	0.007	
Uqcrc1	0.0220	±	0.008		0.0147	±	0.011		0.0261	±	0.008		0.0257	±	0.009		0.0312	±	0.013		0.0285	±	0.011	
Uqcrc2	0.0295	±	0.008		0.0245	±	0.013		0.0339	±	0.007		0.0431	±	0.015		0.0492	±	0.018		0.0378	±	0.006	
Uqcrb	0.0267	±	0.002		0.0268	±	0.002		0.0377	±	0.002	‡	0.0283	±	0.003		0.0357	±	0.004	$	0.0357	±	0.003	$
Uqcrh	0.0432	±	0.002		0.0391	±	0.005		0.0507	±	0.003	‡	0.0476	±	0.007		0.0583	±	0.006	$	0.0465	±	0.004	‡
Uqcrfs1	0.0334	±	0.007		0.0527	±	0.009	$	0.0406	±	0.008		0.0459	±	0.012		0.0568	±	0.011		0.0537	±	0.014	
Uqcr10	0.0588	±	0.022		0.0269	±	0.019		0.0486	±	0.016		0.0462	±	0.021		0.0767	±	0.060		0.0769	±	0.027	
Uqcr11	0.0467	±	0.010		0.0292	±	0.014		0.0572	±	0.010		0.0799	±	0.008		0.0000	±	0.000		0.0503	±	0.013	
Mtco1	0.0604	±	0.029		0.0605	±	0.051		0.0606	±	0.017		0.0323	±	0.024		0.0674	±	0.036		0.0673	±	0.023	
Mtco2	0.0306	±	0.008		0.0359	±	0.008		0.0355	±	0.006		0.0341	±	0.010		0.0479	±	0.013		0.0406	±	0.009	
Cox4i1	0.0572	±	0.007		0.0629	±	0.012		0.0706	±	0.010		0.0568	±	0.009		0.0668	±	0.012		0.0679	±	0.012	
Cox5a	0.0118	±	0.006		0.0019	±	0.001	$	0.0096	±	0.005	†	0.0155	±	0.006		0.0035	±	0.002	$	0.0000	±	0.000	‡
Cox5b	0.0292	±	0.014		0.0318	±	0.011		0.0323	±	0.014		0.0275	±	0.011		0.0436	±	0.013		0.0340	±	0.011	
Cox6b1	0.0531	±	0.022		0.0550	±	0.018		0.0543	±	0.020		0.0492	±	0.022		0.0677	±	0.025		0.0706	±	0.031	
Cox6c	0.0680	±	0.016		0.0568	±	0.019		0.0547	±	0.009		0.0505	±	0.005		0.0462	±	0.006		0.0657	±	0.005	†
Atp5a1	0.0494	±	0.009		0.0478	±	0.018		0.0539	±	0.010		0.0402	±	0.009		0.0610	±	0.025		0.0618	±	0.011	‡
Atp5b	0.0270	±	0.003		0.0369	±	0.008		0.0337	±	0.008		0.0276	±	0.009		0.0537	±	0.015	$	0.0388	±	0.009	
Atp5c1	0.0462	±	0.012		0.0421	±	0.022		0.0408	±	0.014		0.0433	±	0.017		0.0392	±	0.011		0.0418	±	0.012	
Atp5d	0.0287	±	0.006		0.0258	±	0.012		0.0309	±	0.006		0.0266	±	0.008		0.0479	±	0.017	$	0.0416	±	0.006	$
Atp5f1	0.0318	±	0.002		0.0318	±	0.002		0.0325	±	0.002		0.0255	±	0.002		0.0378	±	0.002	$	0.0362	±	0.003	$
Atp5h	0.0329	±	0.008		0.0371	±	0.017		0.0330	±	0.008		0.0384	±	0.009		0.0502	±	0.020		0.0448	±	0.006	
Atp5i	0.0245	±	0.015		0.0279	±	0.025		0.0195	±	0.017		0.0258	±	0.013		0.0348	±	0.029		0.0244	±	0.010	
Atp5j2	0.0365	±	0.005		0.0289	±	0.005	$	0.0348	±	0.004	†	0.0310	±	0.005		0.0449	±	0.003	$	0.0386	±	0.003	‡
Atp5l	0.0627	±	0.015		0.0469	±	0.010	$	0.0580	±	0.009		0.0415	±	0.005		0.0631	±	0.014	$	0.0669	±	0.010	$
Atp5o	0.0326	±	0.005		0.0406	±	0.007		0.0409	±	0.008		0.0352	±	0.006		0.0506	±	0.015	$	0.0467	±	0.006	$

Supplemental Table 3:The relative abundance of mitochondrial ETS proteins in the soleus. Data were analyzed by two-way ANOVA (group x treatment) and are represented as mean from 5-7 rats per group. Data are in mean ± SD where $ indicates a significant difference from CON, † indicates a significant difference from MET and ‡ indicates significant differences from CON and MET.