

Supplementary Table S1

Cross sectional area value of the Soleus, the plantaris, the Extensor digitorum longus and the tibialis anterior in CTRL and SMR animals at P15 and P28. Values are as median (Q1-Q3).

Soleus

Fiber Type	CTRL (P15)	SMR (P15)	%Δ	p value	CTRL (P28)	SMR (P28)	%Δ	p value
Total	406.6 (289.6 – 558.8) (N=11822)	302.8 (228.8 – 403.3) (N=15620)	-25.5%	= 0.008	885.2 (661.4 – 1146.5) (N=21402)	486.6 (345.8 – 666.9) (N=18401)	-45.0%	< 0.001
I	521.8 (406.3 – 664.6) (N=4780)	353.7 (268.4 – 504.6) (N=4994)	-32.2%	= 0.010	1037.3 (809.9 – 1296.6) (N=12098)	510.3 (372.4 – 694.2) (N=8096)	-50.8%	< 0.001
I/IIa	355.5 (282.0 – 202.5) (N=2041)	282.0 (202.5 – 371.9) (N=2585)	-20.7%	= 0.019	703.6 (470.6 – 976.5) (N=1202)	380.5 (289.1 – 513.8) (N=2067)	-45.9%	= 0.004
IIA	339.4 (268.3 – 432.0) (N=4319)	291.4 (229.7 – 369.9) (N=6463)	-14.1%	= 0.084	738.5 (592.8 – 913.2) (N=7215)	508.3 (353.5 – 677.0) (N=7215)	-31.2%	= 0.005
Unstained	207.9 (112.2 – 353.8) (N=682)	244.0 (147.8 – 362.8) (N=1578)	+17.3%	= 0.949	533.5 (311.7 – 719.0) (N=1160)	421.6 (258.3 – 603.2) (N=1023)	-21.0%	= 0.032

Extensor Digitorum Longus

Fiber type	CTRL (P15)	SMR (P15)	%Δ	p value	CTRL (P28)	SMR (P28)	%Δ	P value
Total	248.1 (175.5 – 343.1) (N=16356)	338.2 (235.2 – 478.9) (N=15078)	+36.3%	= 0.003	558.8 (392.2 – 791.0) (N=27612)	475.6 (320.3 – 711.3) (N=24738)	-14.9%	= 0.449
MyHC I	256.5 (205.7 – 325.0) (N=828)	399.3 (322.2 – 493.3) (N=349)	+55.6%	< 0.001	409.2 (318.1 – 541.9) (N=1302)	381.1 (254.7 – 469.6) (N=746)	-6.9%	= 0.554
MyHC I/IIA	198.7 (148.7 – 291.0) (N=495)	357.0 (240.2 – 511.5) (N=399)	+79.7%	= 0.008	345.8 (254.7 – 469.6) (N=321)	374.0 (264.7 – 469.6) (N=940)	+8.2%	= 0.926
MyHC IIA	184.1 (143.0 – 245.0) (N=4356)	275.2 (206.2 – 375.3) (N=3880)	+49.5%	= 0.008	381.7 (292.3 – 534.3) (N=5763)	333.8 (249.6 – 440.0) (N=7871)	-12.6%	= 0.625
MyHC IIA/IIB	252.8 (174.9 – 362.8) (N=1745)	313.0 (222.6 – 462.7) (N=3995)	+23.8%	= 0.106	569.8 (351.0 – 869.8) (N=780)	564.1 (341.0 – 798.5) (N=1180)	-1.0%	= 0.738
MyHC IIB	326.6 (247.4 – 411.3) (N=4193)	430.0 (299.7 – 570.7) (N=3024)	+31.7%	= 0.060	707.7 (549.6 – 1020.9) (N=11790)	794.8 (605.5 – 1022.1) (N=5603)	+12.3%	= 0.799
Unstained	252.6 (191.2 – 329.9) (N=4739)	370.2 (272.0 – 489.6) (N=3431)	+46.5%	< 0.001	500.5 (348.1 – 721.5) (N=7656)	510.9 (371.2 – 691.0) (N=8398)	+2.1%	= 0.967

Tibialis Anterior

Fiber type	CTRL (P15)	SMR (P15)	%Δ	p value	CTRL (P28)	SMR (P28)	%Δ	P value
Total	306.7 (219.9 – 434.2) (N=83590)	384.1 (254.7 – 582.3) (N=55431)	+25.2%	< 0.001	741.0 (534.4 – 1054.5) (N=97440)	787.2 (506.6 – 1222.9) (N=85088)	+6.2%	= 0.530
MyHC I	341.4 (267.0 – 416.8) (N=2031)	410.5 (312.3 – 567.7) (N=995)	+20.2%	< 0.001	616.7 (511.6 – 747.1) (N=1314)	689.3 (528.2 – 855.3) (N=1321)	+11.8%	= 0.278
MyHC I/IIA	249.3 (187.2 – 336.6) (N=1197)	316.8 (224.5 – 504.0) (N=1034)	+27.1%	< 0.001	562.7 (464.8 – 691.3) (N=1653)	507.6 (374.7 – 701.0) (N=1322)	-9.8%	= 0.903
MyHC IIA	225.7 (184.5 – 277.9) (N=16710)	294.7 (218.4 – 429.2) (N=15795)	+30.6%	= 0.008	510.8 (422.3 – 616.7) (N=11924)	545.1 (403.9 – 737.4) (N=28046)	+6.7%	= 0.046
MyHC IIA/IIB	320.3 (220.0 – 459.3) (N=6102)	438.0 (283.4 – 670.0) (N=5361)	+36.7%	< 0.001	558.8 (370.2 – 820.5) (N=1632)	997.6 (619.6 – 1495.1) (N=5524)	+78.5%	= 0.024
MyHC IIB	445.1 (339.3 – 550.9) (N=29563)	561.1 (401.0 – 749.6) (N=12039)	+26.1%	< 0.001	928.6 (681.8 – 1304.1) (N=54279)	1347.5 (922.2 – 1793.2) (N=23001)	+45.1%	= 0.091
Unstained	269.4 (203.6 – 343.3) (N=27987)	369.6 (255.9 – 541.5) (N=20207)	+37.2%	< 0.001	630.2 (484.4 – 811.0) (N=26638)	820.1 (554.5 – 1109.8) (N=25874)	+30.1%	= 0.011

Plantaris

Fiber type	CTRL (P15)	SMR (P15)	%Δ	p value	CTRL (P28)	SMR (P28)	%Δ	P value
Total	226.2 (163.0 – 307.0) (N=38973)	226.6 (154.9 – 319.2) (N=30973)	+0.2%	= 0.639	636.3 (446.4 – 853.1) (N=23732)	591.5 (417.6 – 810.6) (N=44177)	-7.0%	= 0.399
MHCI	304.5 (234.3 – 402.7) (N=1785)	276.8 (209.3 – 369.4) (N=676)	-9.1%	= 0.188	681.7 (528.4 – 879.4) (N=1137)	501.1 (408.8 – 627.2) (N=646)	-26.5%	= 0.083
MHCI/IIA	188.3 (137.0 – 246.6) (N=457)	181.9 (148.0 – 244.9) (N=69)	-3.4%	= 0.200	564.4 (416.7 – 796.1) (N=209)	654.1 (475.7 – 837.0) (N=165)	-15.9%	= 0.756
MHCIIA	191.3 (143.6 – 259.9) (N=6780)	190.8 (144.6 – 249.8) (N=4111)	-0.3%	= 0.520	460.9 (344.2 – 616.5) (N=5535)	412.7 (316.1 – 552.2) (N=10655)	-10.4%	= 0.557
MHCIIA/IIB	198.9 (142.4 – 272.3) (N=552)	175.1 (127.0 – 234.8) (N=681)	-12.0%	= 0.938	527.2 (341.8 – 794.2) (N=917)	626.8 (446.4 – 858.9) (N=4815)	+18.9%	= 0.435
MHCIIIB	273.5 (207.8 – 345.6) (N=13709)	267.4 (189.3 – 359.2) (N=13996)	-2.2%	= 0.624	773.2 (593.9 – 979.3) (N=9107)	733.9 (563.0 – 927.6) (N=20142)	-5.1%	= 0.440
Unstained	196.4 (147.9 – 265.9) (N=15690)	193.6 (132.9 – 286.3) (N=11440)	-1.4	= 0.566	613.8 (453.9 – 823.7) (N=6827)	499.3 (384.8 – 646.4) (N=7754)	-18.7	= 0.007