**Table S1** Mean (+ standard error of the mean) percentages of fast-twitch myosin fibers by study group and muscle

Group ZM OOM\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

raw transformed raw transformed\_\_\_\_\_\_\_\_\_\_

Human 60.0 (7.9) 0.66 (0.07) p=0.03 90.90 (2.08) 1.28 (0.03) p=0.01

Rhesus macaque 80.50 (2.9) 0.80 (0.03) 93.0 (1.8) 1.33 (0.03)

Chimpanzee\_\_\_\_\_\_\_\_97.10 (0.6)\_\_\_\_\_\_\_\_\_\_0.92 (0.01)\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 95.60 (1.18)\_\_1.37 (0.01)\_\_\_\_\_\_\_\_\_\_\_

Note: The “raw” value represents the mean, untransformed percentage; the “transformed” value represents the mean percentage derived from the arc-sine transformed percentages. Statistical testing was conducted on transformed values. Note that results of one-way ANOVA testing revealed significant (p<0.05) differences among the three study groups in both muscles. Abbreviations: ZM – zygomaticus major muscle; OOM – orbicularis oris muscle