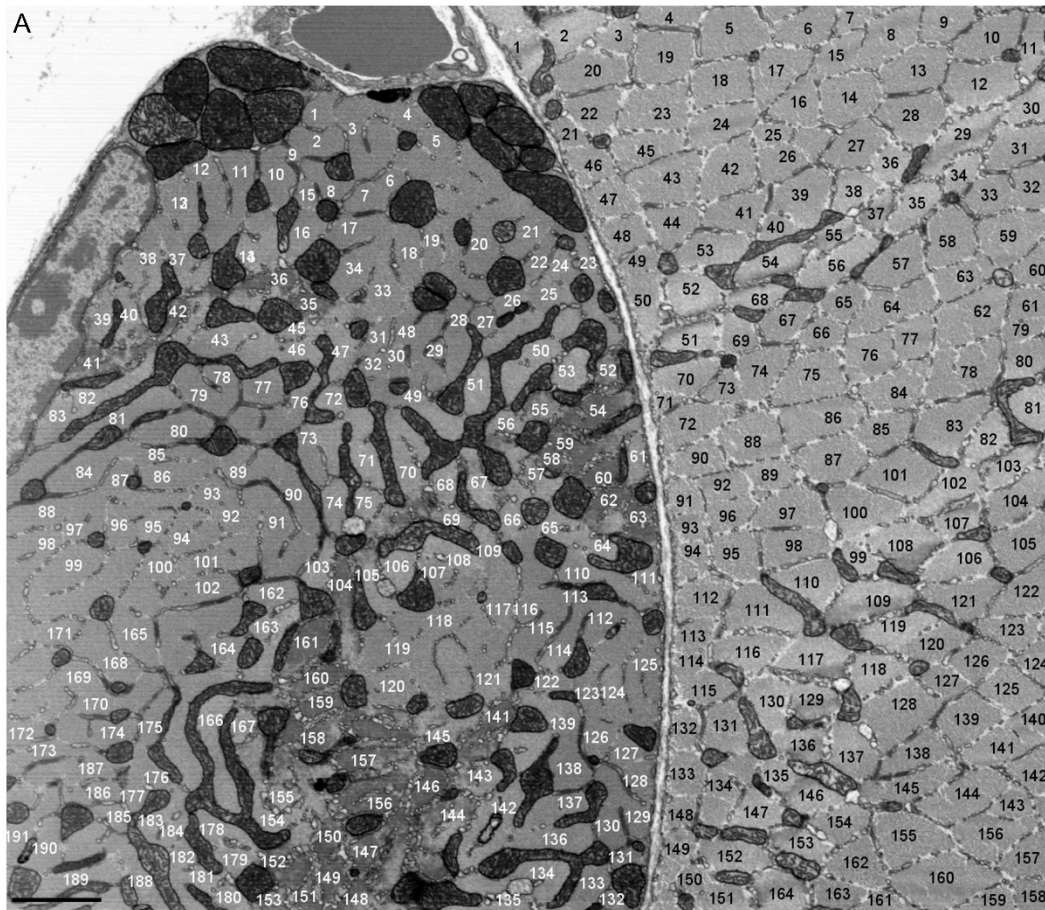


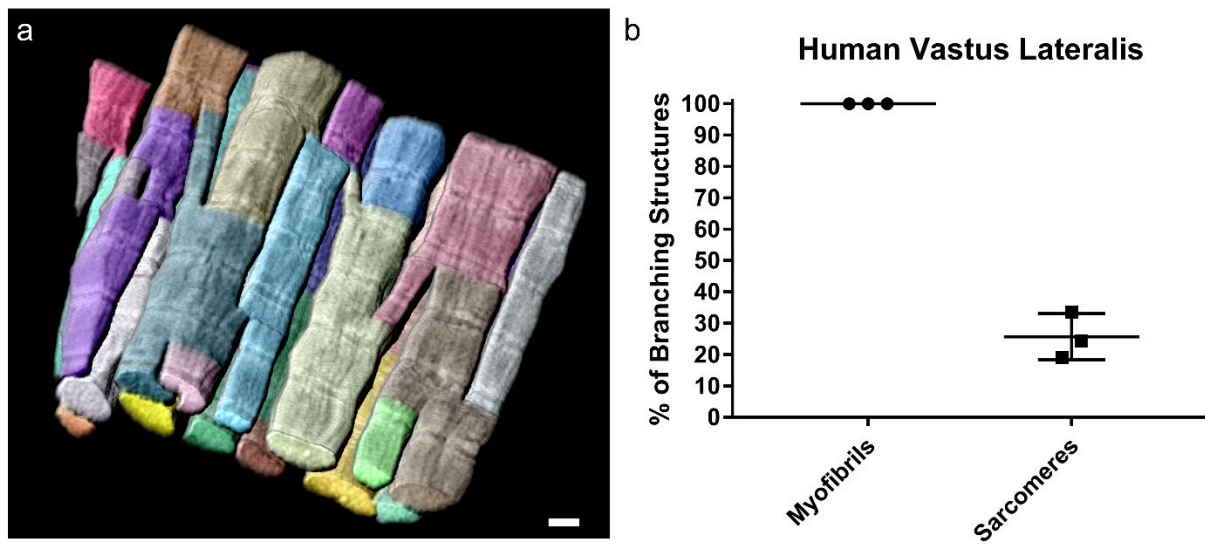
The Unified Myofibrillar Matrix for Force Generation in Muscle

Willingham et al.

Supplementary Information



Supplementary Figure 1. Single FIB-SEM image showing adjacent fast- (right) and slow-twitch (left) muscle fibers and their many parallel sarcomeres (numbered). Image representative of 4 fast-twitch datasets and 3 slow-twitch datasets. Scale bar: 1 μm .



Supplementary Figure 2. a) 3D rendering of 34 connected myofibrillar segments (various colors) from human vastus lateralis muscle. Image is representative of 3 FIB-SEM muscle volumes. Scale bar: 1 μm . b) Percentage of myofibrils with at least one branch and percentage of sarcomeres with a branch in adult human vastus lateralis muscle. Raw FIB-SEM data with 30 nm pixel sizes obtained from the Baltimore Longitudinal Study of Aging²⁷. Muscles were from humans less than 40 years of age. N=60 myofibrils and 906 sarcomeres assessed from 3 muscles. Bars: mean $\pm$ SE.