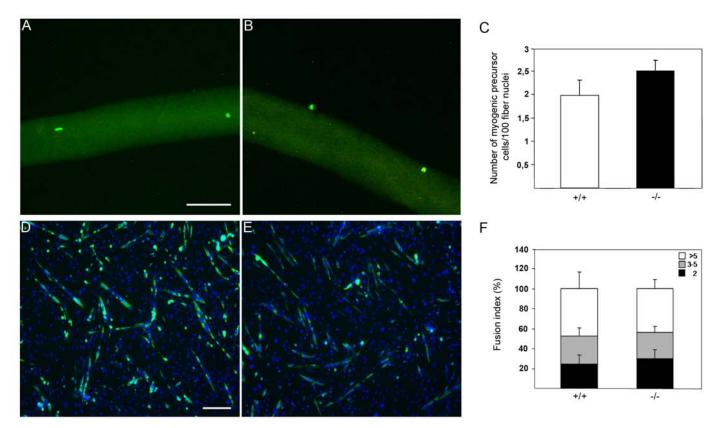


compared to nNOS expression.



Supplementary figure 2. Myogenic precursor cell pool and fusion capacity are not impaired in iNOS-/- mice (A-C) Single muscle fibers were isolated from Gastrocnemius muscles of 2-month-old iNOS+/+ (A) and iNOS -/- (B) mice. Representative images of single fiber-associated myogenic precursor cells, immunostained with a specific antibody for Pax7. (C) Histogram representing the number of quiescent Pax7+ myogenic precursor cells on iNOS+/+ and -/- single myofibers. Results represent the means +/- SEM of 3 independent experiments, normalized for myofiber nuclei number. (D-F) Primary myoblasts from iNOS+/+ and -/- newborn mice were maintained for 24 h in growth medium and then switched to the differentiation medium for 24 and 48 h. Representative images of IF on iNOS+/+ (D) and iNOS-/- (E) primary myoblast culture after 48 h in differentiation medium, using an antibody specific for sarcomeric MyHC. Nuclei are visualized with Hoechst. Magnification 10X. Scale bar: 200 µm. (F) The fusion index indicates the percentage of nuclei within MyHC-positive myotubes with more than two nuclei. Fusion index was calculated after 48 h in differentiation medium by counting the number of myosin positive fibers displaying respectively 2 nuclei (black), 3<nuclei>5 (gray), and >5 nuclei (white). Result represents the means +/- SD of 3 independent experiments performed in triplicate.