**Glossary**

**Contraction Time (ms):** Contraction time measured *in vitro* from time of force production to peak tension.

**Forelimb strength (N):** *In vivo* forelimb strength measured by gently pulling on a mouse holding a fix bar attached to a force transducer.

**Half relaxation time (ms):** *In vitro* measurement of the time required for the excised muscle to decline from peak tension to 50% of peak tension.

**Max Torque (N\*mm/g):** *In vivo* force generated following stimulation of the plantarflexors at predetermined joint angles normalized to body mass.

**Rate of relaxation (N/sec):** The rate at which force declines following peak tension.

**Relative Tension (N/cm2 or N/mg):** Tension generated from a contraction that is normalized to either body mass when functional tests are performed *in situ* (1) or calculated cross-sectional area of the muscle when functional tests are performed *in vitro* (also called active tension, specific tension and specific isometric force, among others, in the literature) (2-5).

**Tetanic Force (N):** Absolute maximal isometric force generated from a stimulated muscle. Also called isometric force *(in vitro*) (6) or absolute force (*in situ*) (1).

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