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Regulation of Mitochondrial Parameters in Skeletal Muscle

Endurance exercise is a well-known mediator of mitochondrial biogenesis and oxidative capacity in skeletal muscle. The PGC-1 Family of transcriptional co-activators have been widely thought to be required for mitochondrial biogenesis and respiration capacity in skeletal muscle. Dr. Rowe and his lab have generated a series of muscle specific PGC-1 knockout lines to systematically determine the contribution to mitochondrial biogenesis and oxidative capacity as well as exercise performance.