Nat Genet 40:170-80 (2008).

Deficiency or inhibition of oxygen sensor Phd1 induces hypoxia tolerance by reprogramming basal metabolism

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nature genetics
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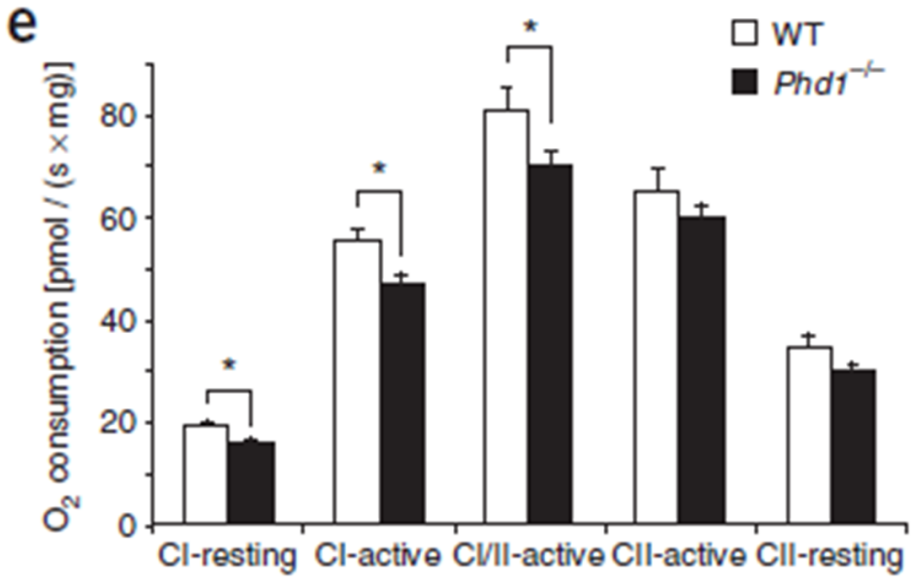

fibers. Scale bars, 25 μm. (**e**) Respirometry showing reduced mitochondrial respiration in Phd1-deficient myofibers. CI-resting, basal complex I (NADH-Q oxidoreductase) respiration; CI-active, CI respiration activated by excess of ADP; CI/II-active, combined CI and CII (complex II, succinate dehydrogenase) respiration; CII-active, CII respiration after inhibition of CI; CII-resting, CII respiration after inhibition of ATP/ADP translocase. Mean ± s.e.m. of 22–33 myofiber preparations from five mice per genotype. * $P < 0.05$. (**f**) Micro-CT angiograms of lower hindlimbs in baseline conditions

Reference: Aragonés et al (2008) Deficiency or inhibition of oxygen sensor Phd1 induces hypoxia tolerance by reprogramming basal metabolism. Nat Genet 40:170-80.