

Extensive skeletal muscle cell mitochondriopathy distinguishes critical limb ischemia patients from claudicants

Short Title: Muscle mitochondrial deficiency in CLI

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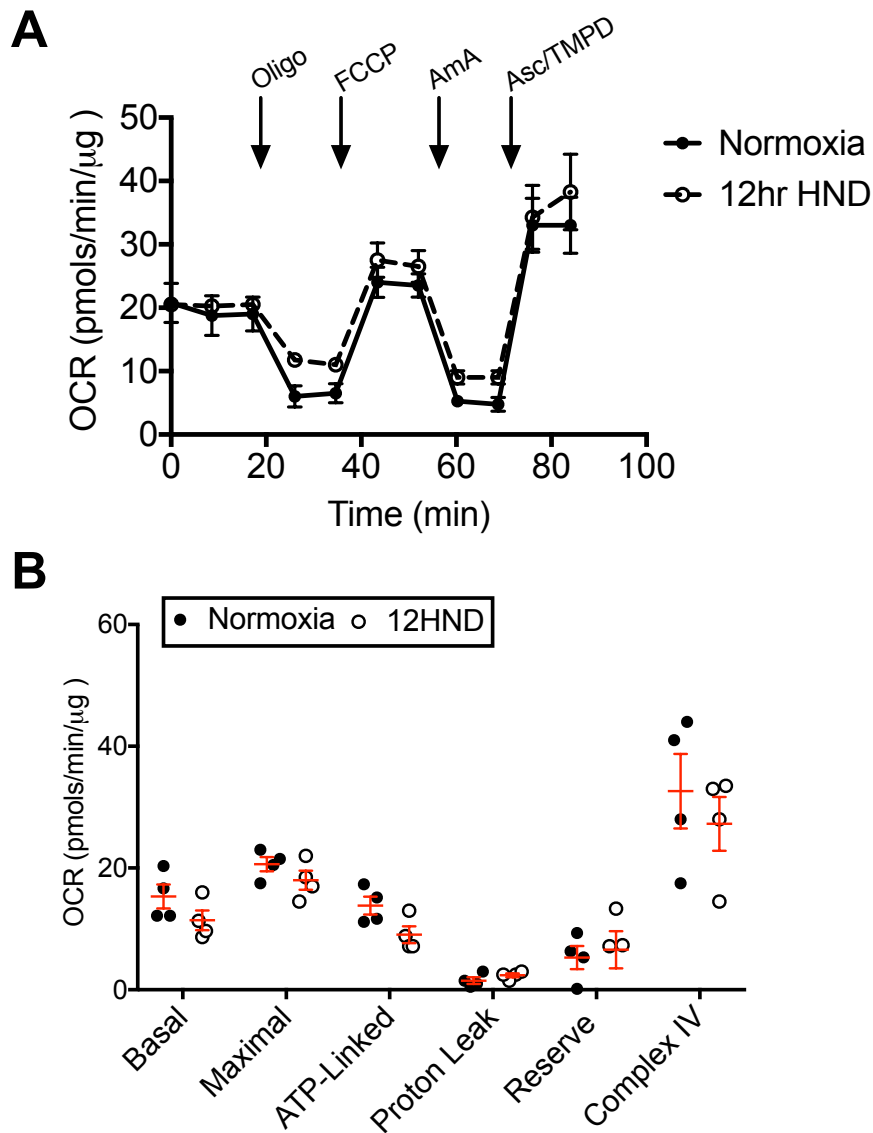
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Supplemental Figure 1: Acute hypoxia and nutrient deprivation does not impact mitochondrial energetics in MPCs from healthy adults. Primary MPCs were isolated from fresh muscle biopsies obtained from healthy adults without PAD. Following differentiation into mature myotubes, HA MPCs were exposed to 12-hours of hypoxia and nutrient deprivation (HND; media replaced with HBSS). (A) Cellular respiration was assessed using a Seahorse XF24 analyzer. (B) Rates of oxygen consumption (OCR) were quantified for different substrate/inhibitor combinations. Abbreviations: oligo = oligomycin; FCCP = carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone; AmA = antimycin A; Asc/TMPD = ascorbate/*N,N,N',N'*-Tetramethyl-*p*-phenylenediamine. N=4 HA patient MPCs.

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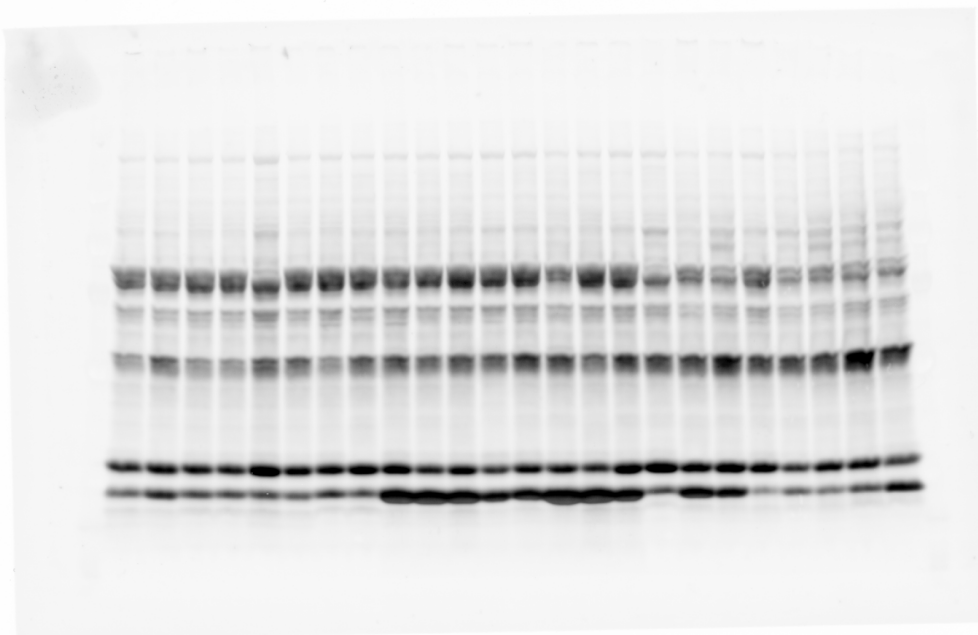
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Conflict of Interest: The authors declare that no conflict of interest exists.

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Supplemental whole blot images for western blotting in Figure 6.

****Note:** All blots were loaded as follows: N=8 HA, then N=8 IC, then N=8 CLI samples.



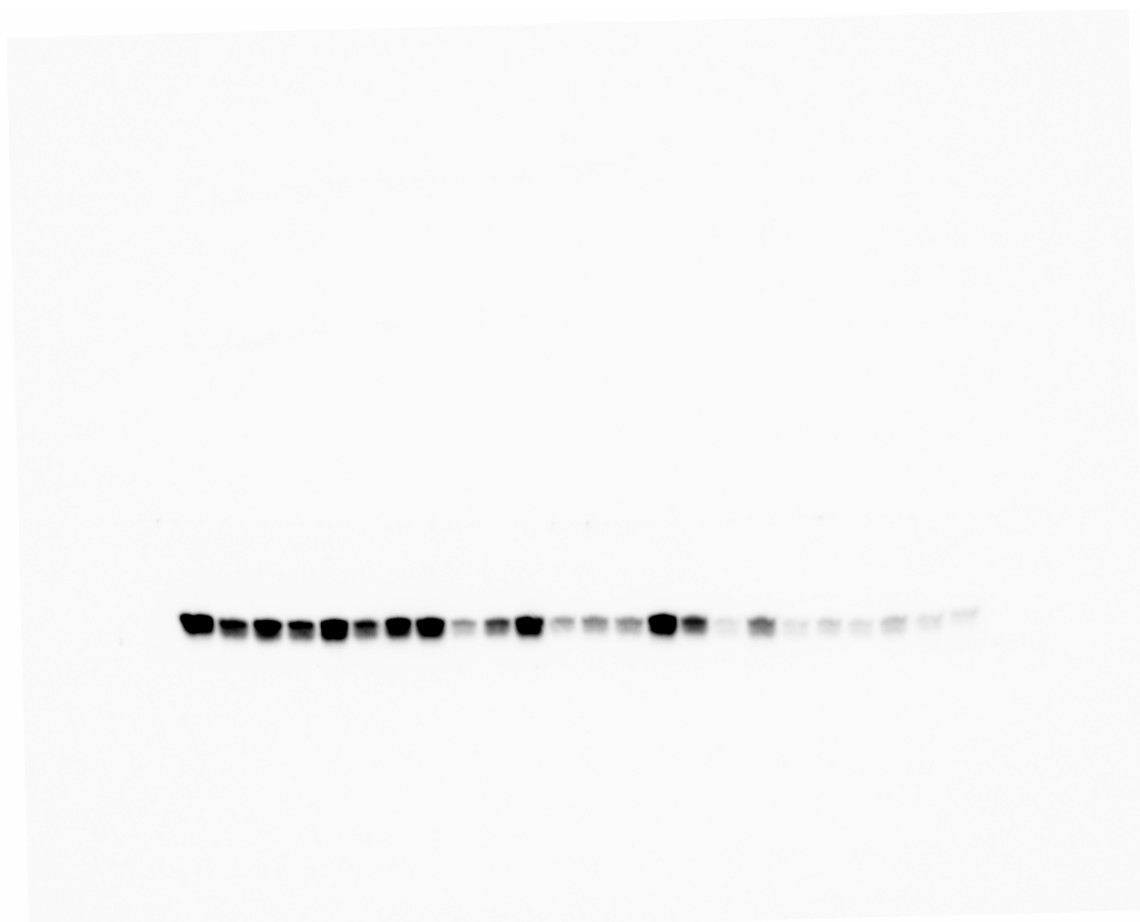
Total Protein whole blot image



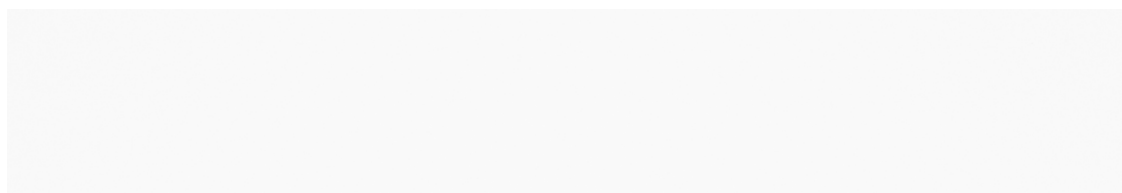
GAPDH whole blot image.



HSP60 whole blot image



NDUF53 whole blot image





COX4 whole blot image.

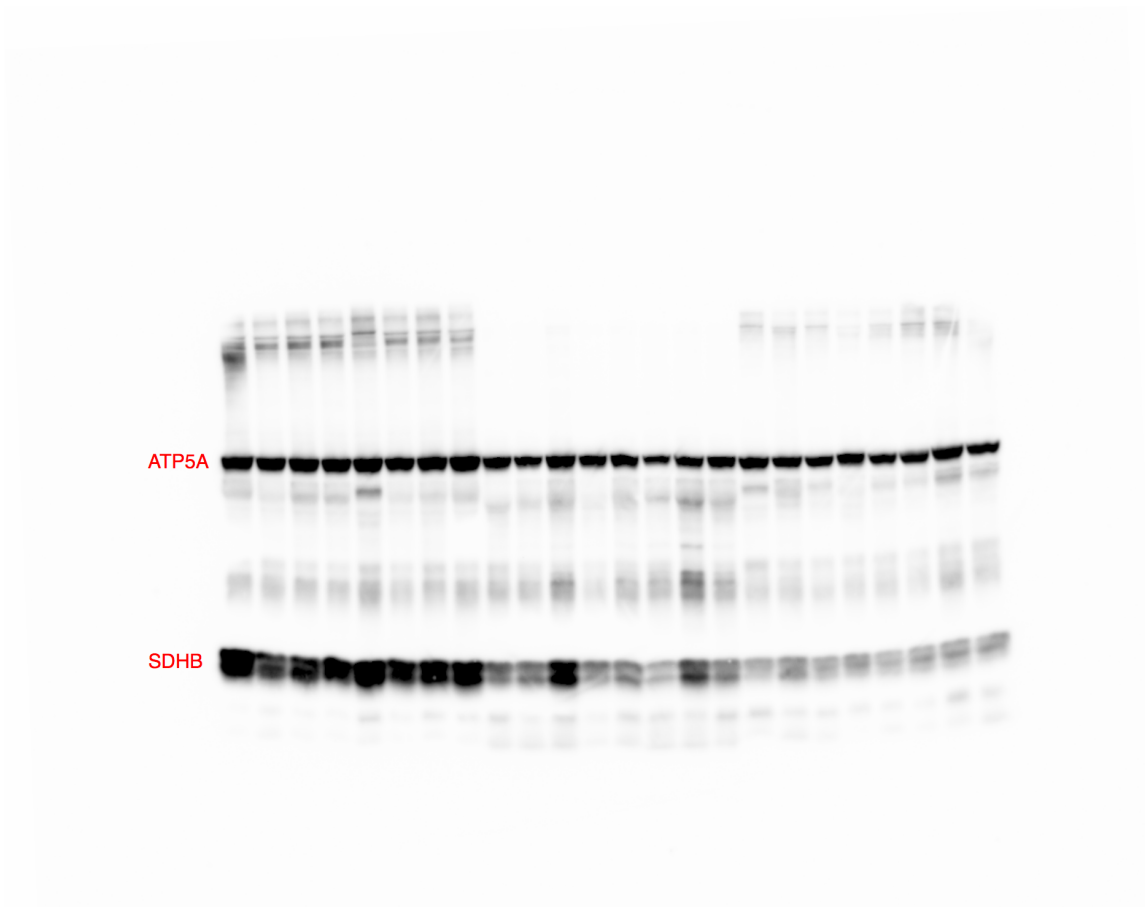


COX6A2 whole blot image





UQCRCF1 whole blot image



SDHB and ATP5A whole blot image. PVDF membrane was incubated with antibody cocktail (Abcam MS601) containing antibodies for protein subunits of all mitochondrial electron transport system complexes. We were only able to reliably resolve SDHB and ATP5A which were included for analysis.