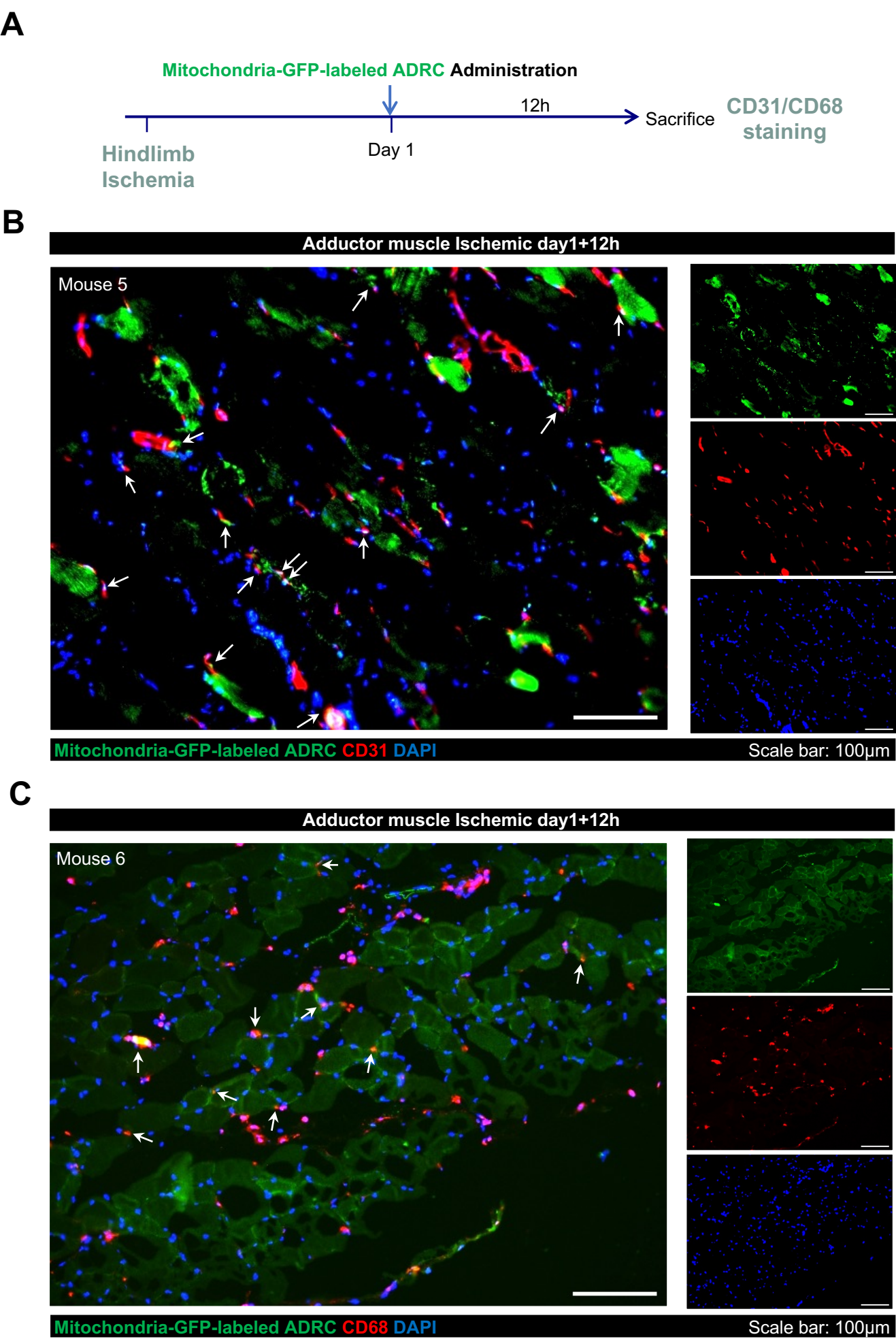
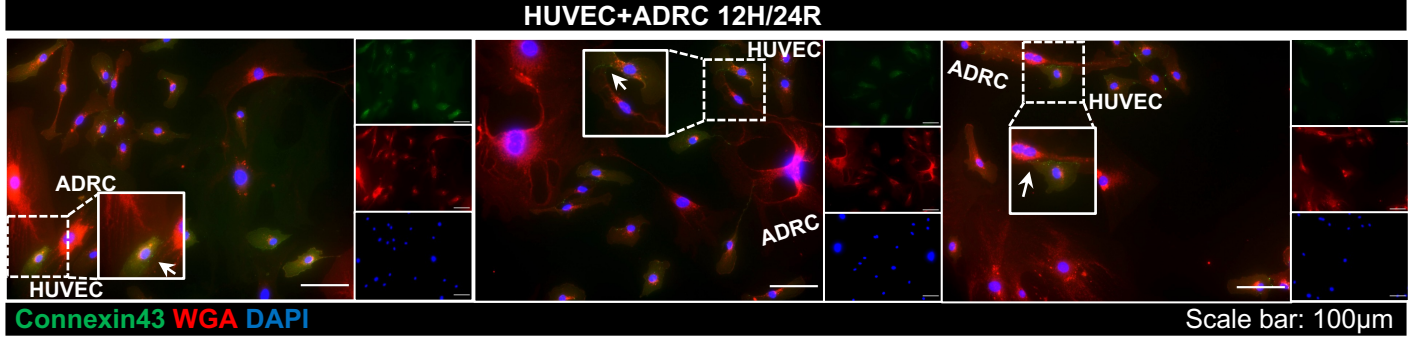
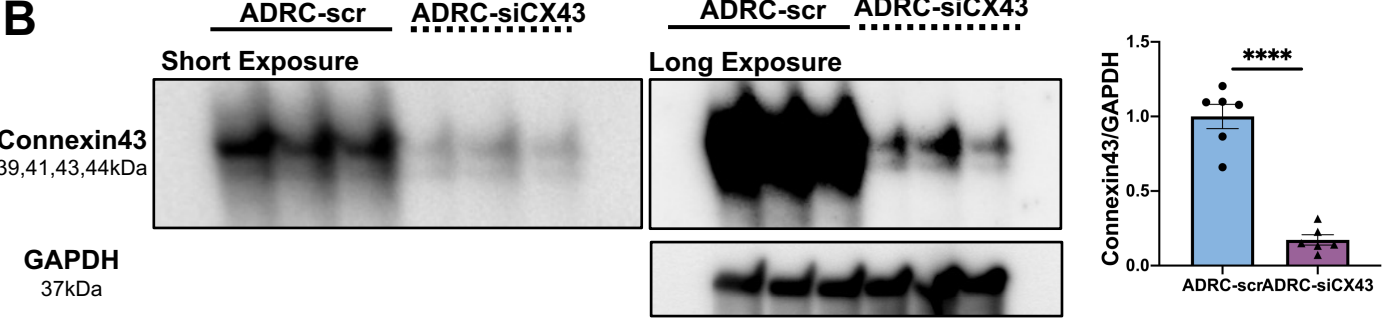
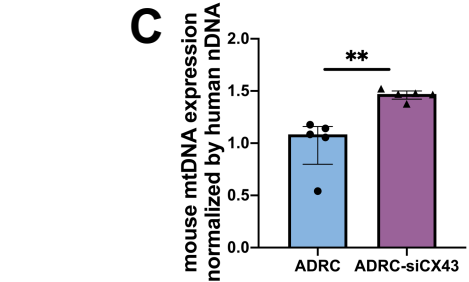
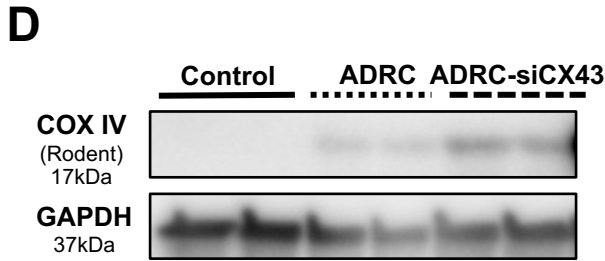
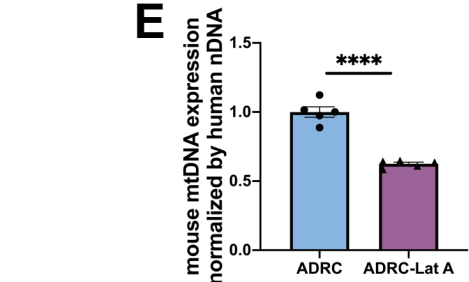
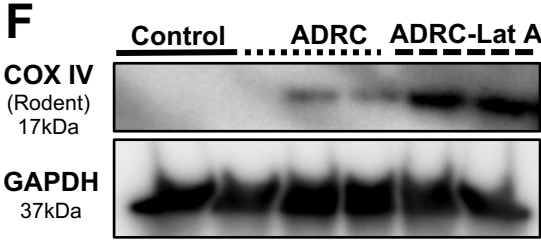
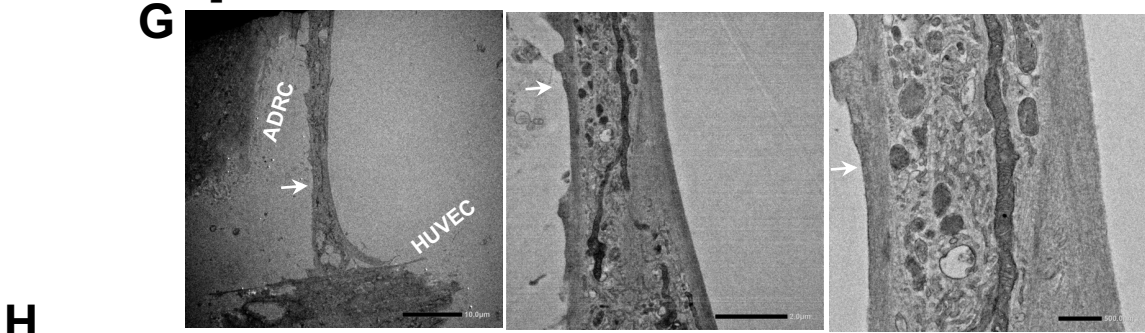
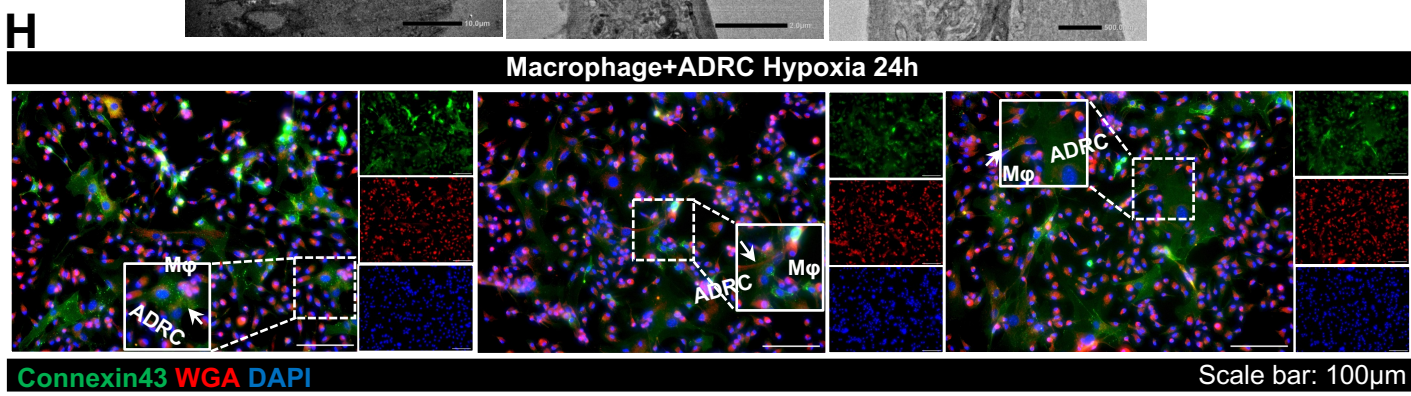
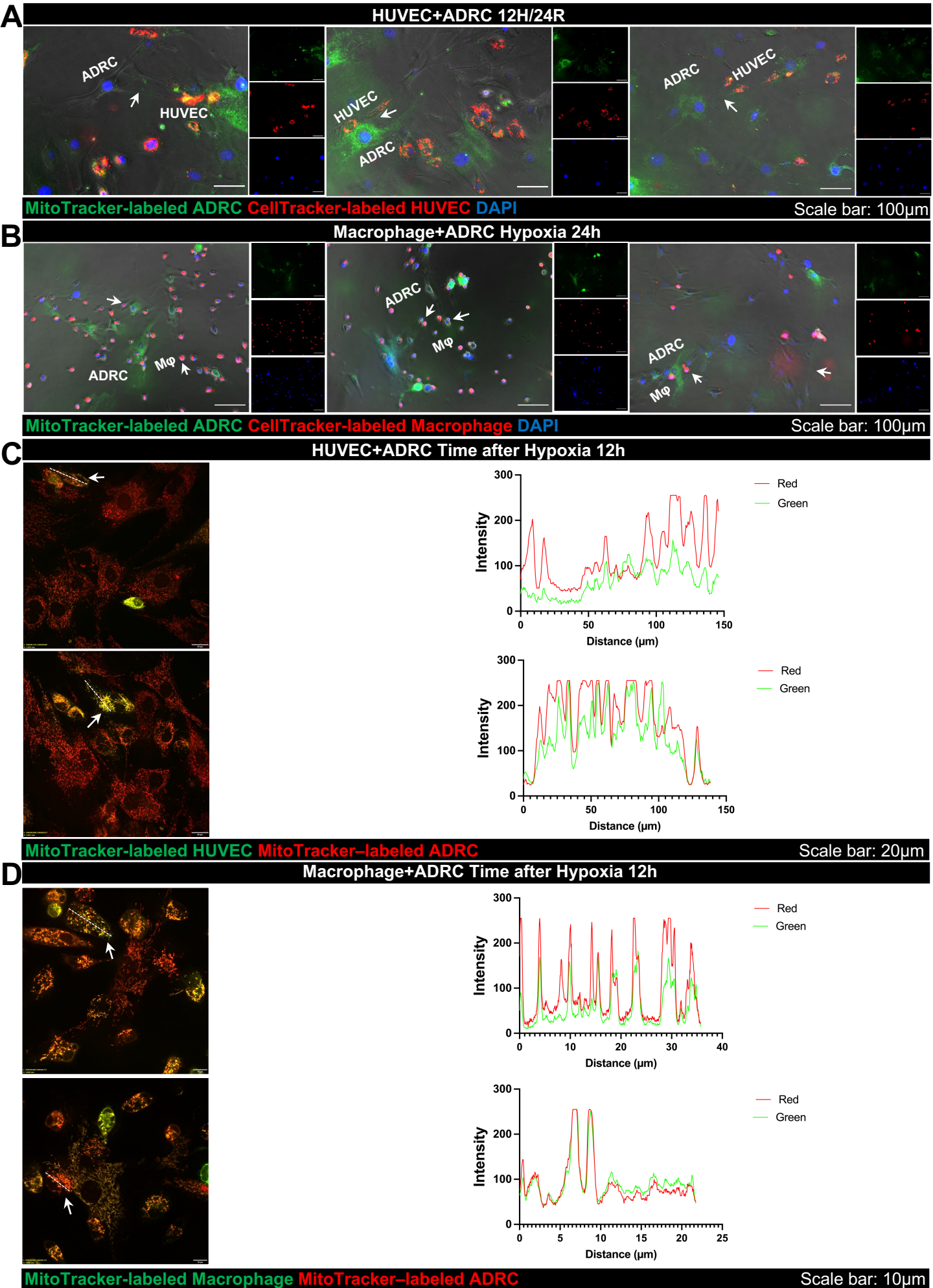




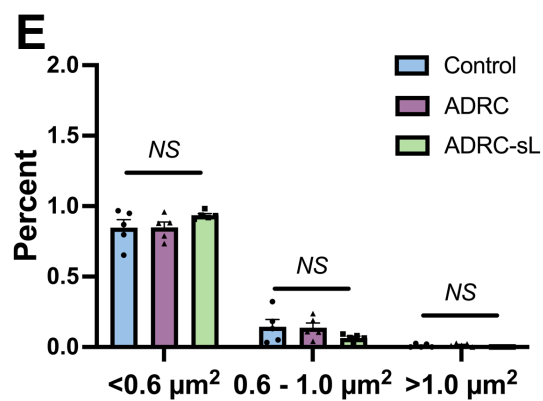
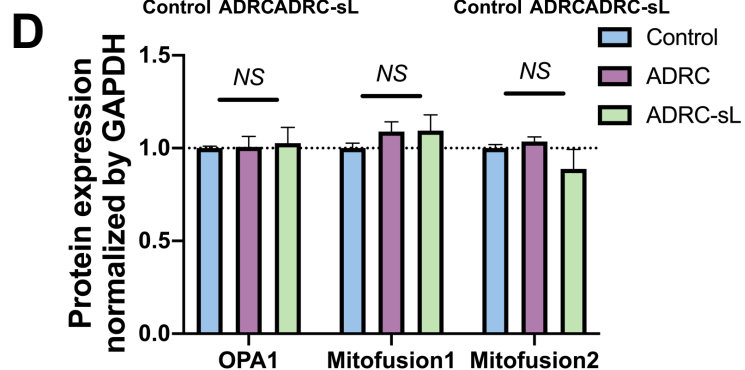
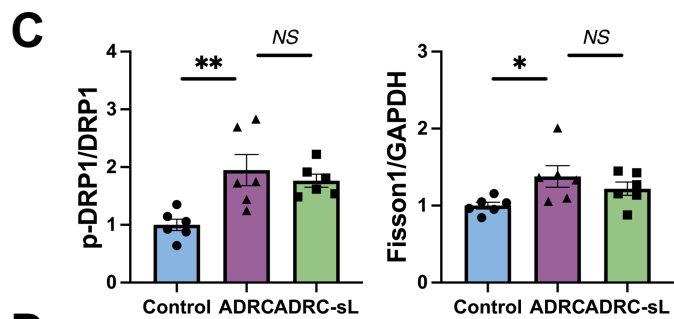
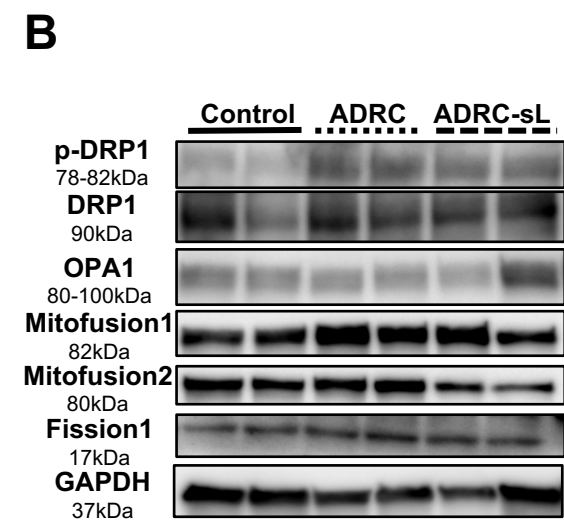
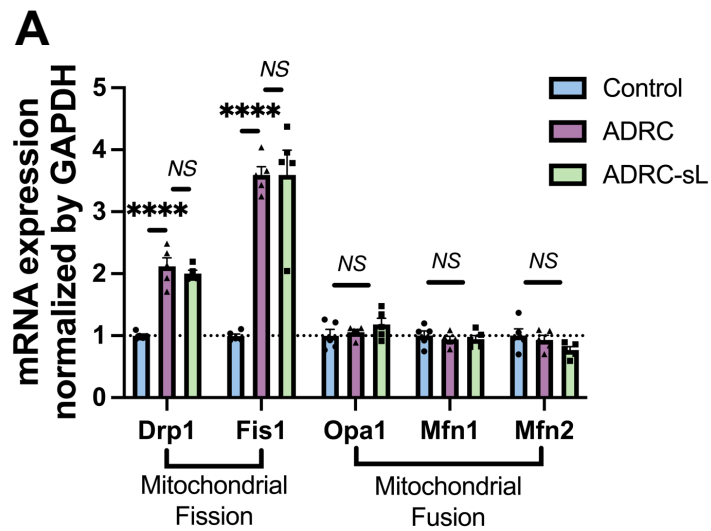
Supplemental Figure 1

A**B****C****D****E****F****G****H**

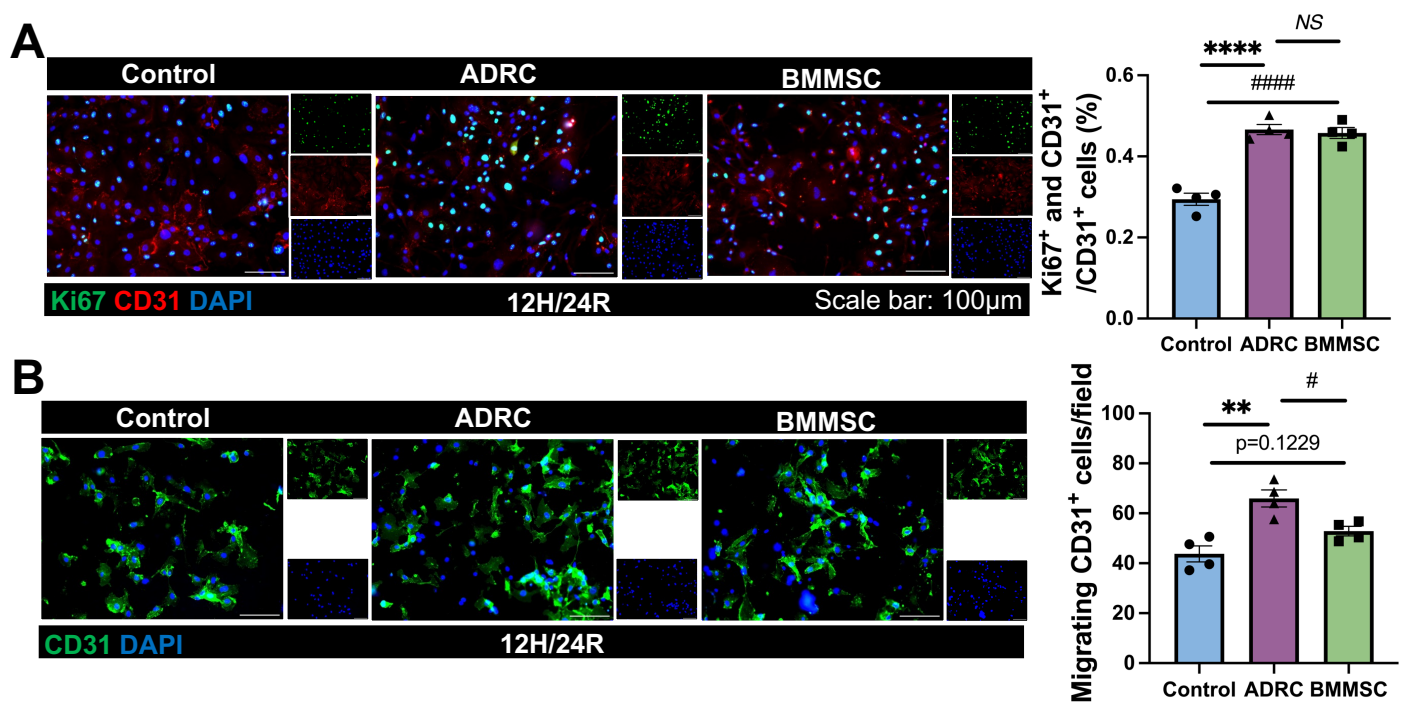
Supplemental Figure 2



Supplemental Figure 3

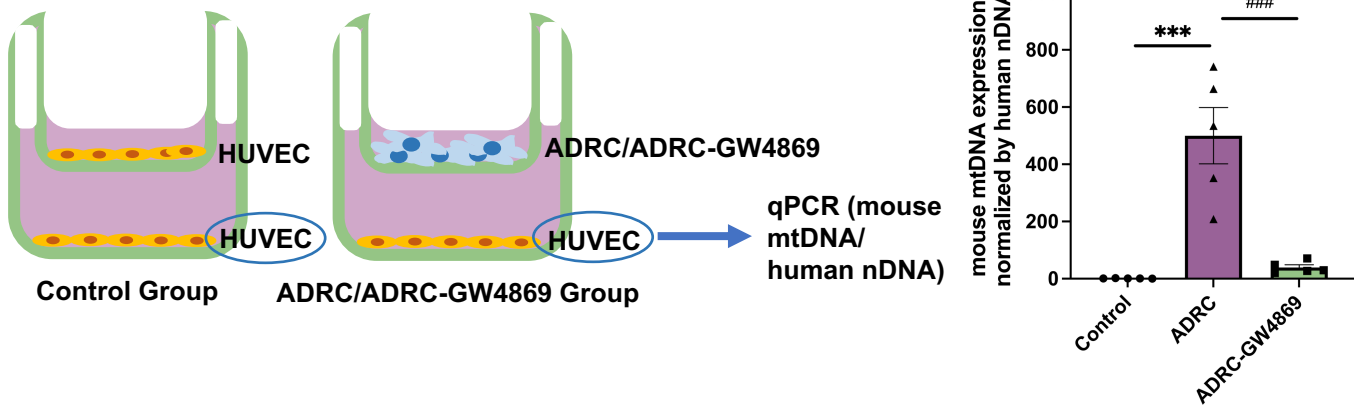


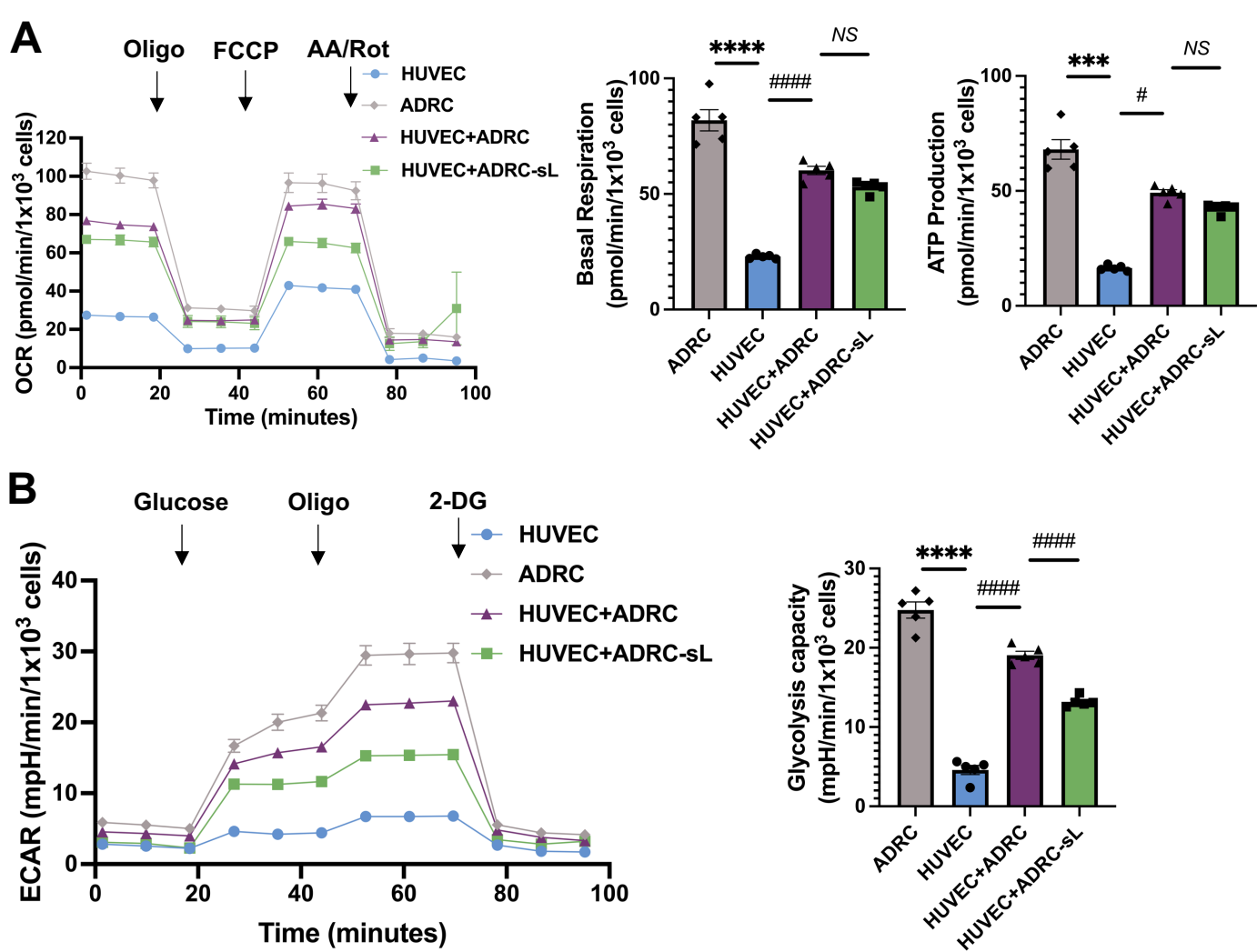
Supplemental Figure 4



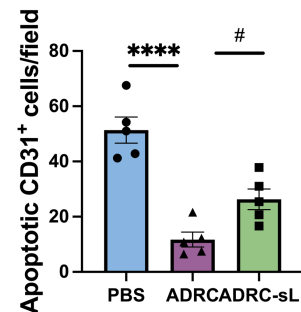
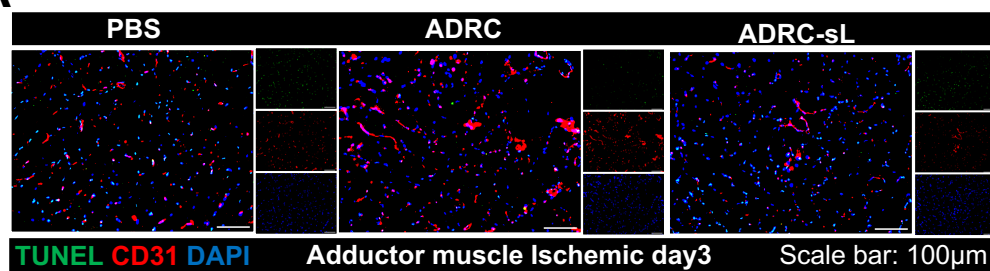
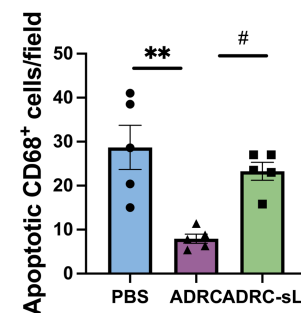
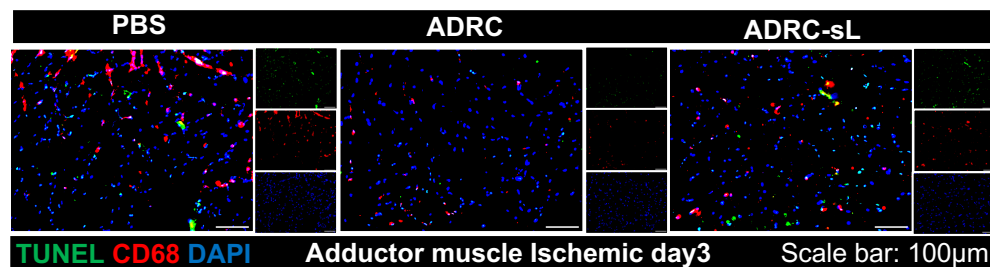
Supplemental Figure 6

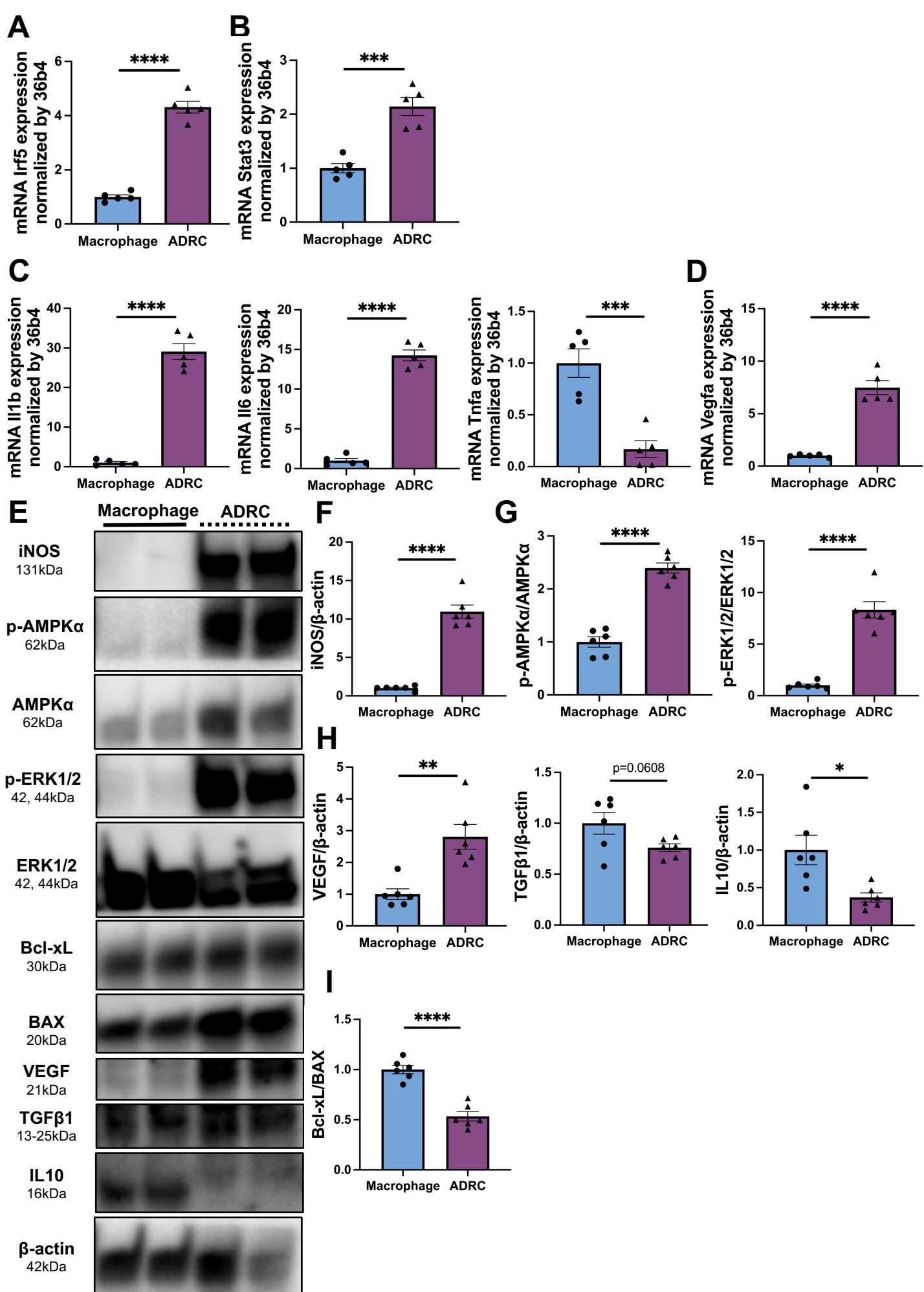
A





Supplemental Figure 8

A**B**



Supplemental Figure 10

Table S1. Human and mouse primers were used for qPCR.

Target	Forward primer	Reverse primer
Human		
<i>Drp1</i>	ACCCGGAGACCTCTCATTCT	TGACAACGTTGGGTGAAAAA
<i>Fis1</i>	GATGACATCCGTAAAGGCATCG	AGAAGACGTAATCCCGCTGTT
<i>Gapdh</i>	GTCTCCTCTGACTTCAACAGCG	ACCACCCTGTTGCTGTAGCCAA
<i>Mfn1</i>	GAGGTGCTATCTCGGAGACAC	GCCAATCCCACTAGGGAGAAC
<i>Mfn2</i>	CACATGGAGCGTTGTACCAG	TTGAGCACCTCCTTAGCAGAC
<i>mtDNA</i>	CCCCACAAACCCCACTTAAACCC A	TTTCATCATGCGGAGATGTTGGA TGG
<i>nucDNA</i>	CGAGTCGTCTTTCTCCTGATGAT	TTCTGGATTCCAATGCTTCGA
<i>Opa1</i>	TGTGAGGTCTGCCAGTCTTTA	TGTCCTTAATTGGGGTCGTTG
<i>Pgc1a</i>	CCAAAGGATGCGCTCTCGTTCA	CGGTGTCTGTAGTGGCTTGACT
Mouse		
<i>Arg1</i>	CATTGGCTTGCGAGACGTAGAC	GCTGAAGGTCTCTTCCATCACC
<i>Cd11c</i>	GCCAGGATGACCTTAGTGTCG	CAGAGTGACTGTGGTTCCGTAG
<i>Cd163</i>	GGCTAGACGAAGTCATCTGCAC	CTTCGTTGGTCAGCCTCAGAGA
<i>Cd206</i>	GTTACCTGGAGTGATGGTTCTC	AGGACATGCCAGGGTCACCTTT
<i>Gapdh</i>	ACCCAGAAGACTGTGGATGG	CACATTGGGGGTAGGAACAC
<i>Il1b</i>	TGGACCTTCCAGGATGAGGACA	GTTTCATCTCGGAGCCTGTAGTG
<i>Il6</i>	AGTTGCCTTCTTGGGACTG	TCCACGATTTCCAGAGAAAC
<i>iNOS</i>	GAGACAGGGAAGTCTGAAGCAC	CCAGCAGTAGTTGCTCCTCTTC
<i>Irf5</i>	CCTACAGAACCACTCTTGCCCTG	CCTTGTGGGTTGCTGATGGTGA
<i>Kif5b</i>	GCGAGATGAAGTGGAGGCAAAG	CTCTTGGTCTGTAGCCTTCAGC
<i>mtDNA</i>	CCCAGCTACTACCATCATTCAAGT	GATGGTTTGGGAGATTGGTTGAT GT
<i>Rala</i>	ACAGAGCTGACCAGTGGAACGT	GCTGTCTTCCATCTTTCTGGCTC
<i>Rhot1</i>	CTCCACCTCAAGCCTTCACTTG	GCTCTTGAGGTCAGCTTGTGTC
<i>Stat3</i>	AGAACCTCCAGGACGACTTTG	TCACAATGCTTCTCCGCATCT
<i>Tgfb1</i>	TGATACGCCTGAGTGGCTGTCT	CACAAGAGCAGTGAGCGCTGAA
<i>Tnfa</i>	TGATCGGTCCCCAAAGGGAT	TGTCTTTGAGATCCATGCCGT
<i>Tnfaip2</i>	TTCGCCTGCAAGATTCCAGTGC	GCTCCTGACTTCACTGCTTGGT
<i>Vegfa</i>	CAGGCTGCTGTAACGATGAA	AATGCTTTCTCCGCTCTGAA
<i>Ym1</i>	TACTCACTTCCACAGGAGCAGG	CTCCAGTGTAGCCATCCTTAGG
<i>36b4</i>	GCTTCGTGTTACCAAGGAGGA	GTCTAGACCAGTGTTCTGAGC

Table S2. Antibodies used for the experiments.

Target antigen	Vendor	Catalog number	Working concentration
AMPKa	Cell Signaling	2532S	1:1000
p-AMPKa	Cell Signaling	2531S	1:1000
BAX	Cell Signaling	14796S	1:1000
Bcl-xL	Cell Signaling	2764S	1:1000
β -Actin	Cell Signaling	4967S	1:1000
Connexin43	Cell Signaling	3512S	1:1000
Cox iv	Cell Signaling	38563S	1:1000
DRP1	Abcam	ab56788	1:2000
p-DRP1	Cell Signaling	3455S	1:1000
ERK1/2	Cell Signaling	4695S	1:1000
p-ERK1/2	Cell Signaling	4370S	1:1000
Fission1	Merck	3271978	1:1000
GAPDH	Cell Signaling	2118S	1:2000
iNOS	Abcam	Ab178945	1:1000
IL10	R & D	AF519	1:1000
Mitofusion1	Cell Signaling	14739S	1:1000
Mitofusion2	Cell Signaling	11925S	1:1000
OPA1	Cell Signaling	67589S	1:1000
PGC1a	Cell Signaling	2178S	1:1000
TFAM	Cell Signaling	7495S	1:1000
TGFb1	Santa Cruz	sc-130348	1:1000
VEGF	Santa Cruz	sc-7269	1:1000
Polyclonal Goat Anti-Mouse Immunoglobulins HRP	Agilent technologies	P0447	1:5000
Polyclonal Goat Anti-Rabbit Immunoglobulins HRP	Agilent technologies	P0448	1:5000
Polyclonal Rabbit Anti-Goat Immunoglobulins HRP	Agilent technologies	P0449	1:5000

Table S3. Raw data for Figure S4D

OPA1			Mitofusion1			Mitofusion2		
Control	ADRC	ADRC-sL	Control	ADRC	ADRC-sL	Control	ADRC	ADRC-sL
1.03105	0.94624	0.93298	1.03981	0.88157	0.79272	0.97708	1.07672	1.11781
0.96895	0.78897	1.02970	0.96019	1.11109	1.25066	1.02292	0.99343	1.11124
1.02217	0.95389	0.88085	1.02321	1.09118	1.26897	0.94813	1.10432	1.00295
0.97783	1.10616	1.44163	0.97679	1.25748	1.27229	1.05187	1.07862	0.95803
1.02085	1.16909	0.90653	1.09566	1.03330	0.88853	1.04664	1.00732	0.52584
0.97915	1.07434	0.96674	0.90434	1.16506	1.09110	0.95336	0.95694	0.61437