Supplemental Information

910 Materials and Methods

912	The XF Extracellular Flux Analyzer (XF24 ³ model, Seahorse Bioscience, North Billerica, MA)
913	was used to measure the oxygen consumption rate (OCR). After differentiation for 30 days,
914	"Brown-Fat-in-Microstrands" were sliced into 12 of 1.5 mm pieces to cover the whole plate and
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placed in a Seahorse 24-well Islet Capture Microplate. All cells were incubated in XF assay

916 medium in a non-CO₂ incubator for at least 30 minutes while XF Mito Stress Test drugs 917 (Seahorse Bioscience) were loaded. The Extracellular Flux analysis and the Mito Stress Test

were carried out as follows. Briefly, 1 μM oligomycin, 3.3 μM of FCCP, and 1 μM antimycin A

919 were sequentially added to cells following the establishment of basal OCR readings to determine

ATP-dependent OCR, maximal OCR and non-mitochondrial respiration, respectively. Three

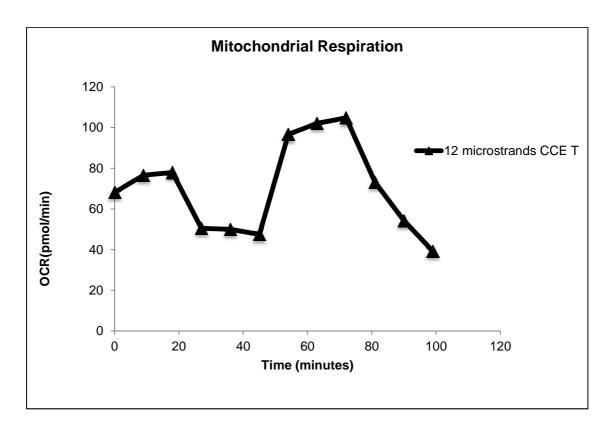
921 OCR readings were obtained following the addition of each drug.

Mitochondrial activity analysis of "Brown-Fat-in-Microstrands"

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924 Figure S1. Mitochondrial respiration of "Brown-Fat-in-Microstrands".

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