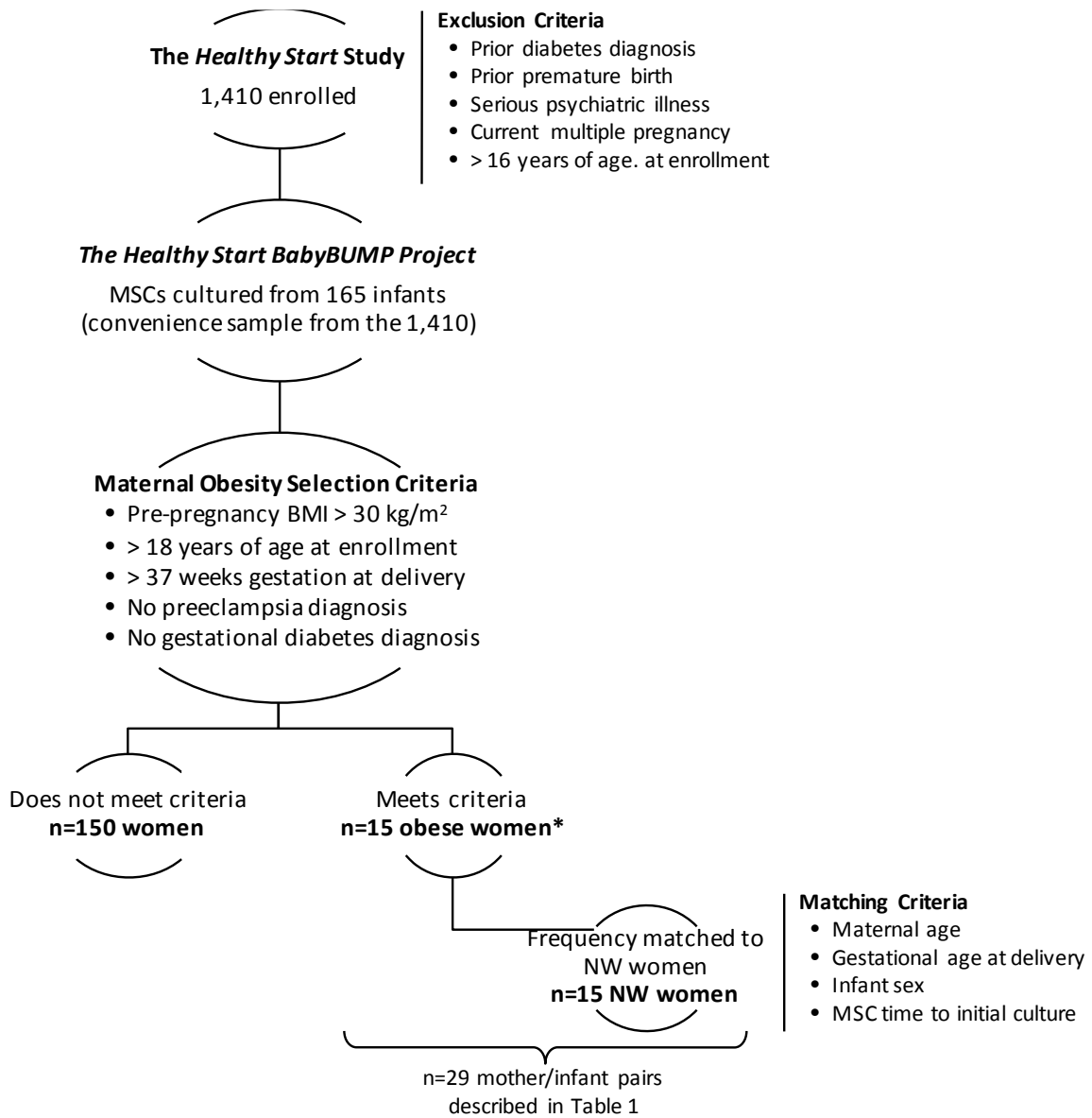


SUPPLEMENTARY DATA

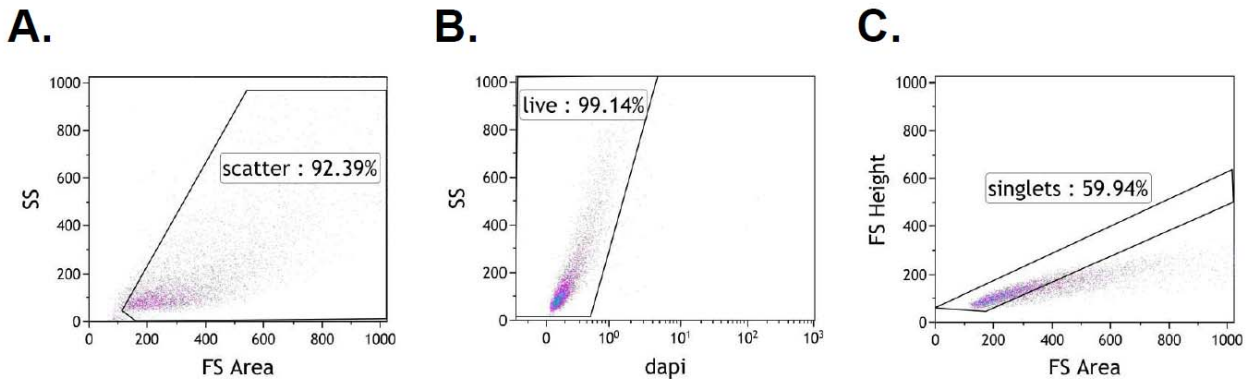
**Supplementary Figure S1.** Flow chart for sample selection.



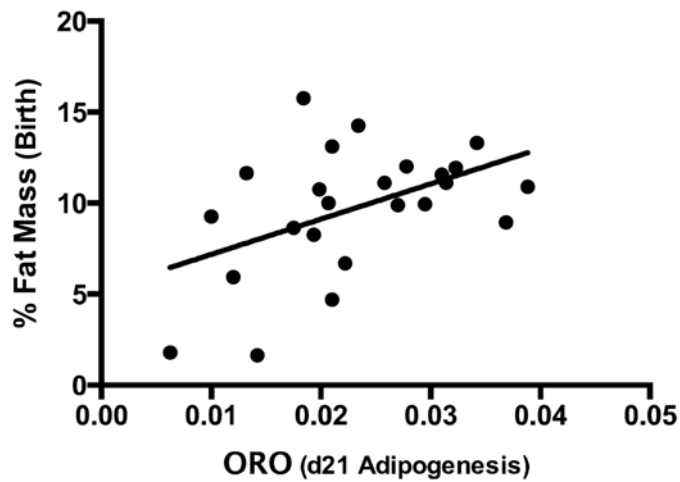
\* During data analysis one obese woman was identified as having developed gestational diabetes and was excluded.

SUPPLEMENTARY DATA

**Supplementary Figure S2.** For flow cytometry experiments, the gating tree was set as follows: *A*) light scatter gate (side scatter area/forward scatter area), *B*) live/dead gate (DAPI negative cells), *C*) singlet gate (forward scatter height/forward scatter area).



**Supplementary Figure S3.** ORO content of the 21 day adipogenic differentiating cells is positively correlated with infant % fat mass at birth when controlling for infant sex and maternal BMI ( $r=0.475$ ,  $P=0.026$ ; Table 2)



SUPPLEMENTARY DATA

**Supplementary Table S1.** Flow Cytometry Antibody List

Antibody	Fluorochrome	Vendor, Cat. No., Clone
CD73	APC	BD Pharmingen, #560847, AD2
CD90	FITC	BD Pharmingen, #555595, 5E10
CD105	FITC	BD Pharmingen, #555821, 581
CD34	PE	BD Pharmingen, #550761, 563
CD45	APC-Cy7	BD Pharmingen, #557833, 2D1
CD19	FITC	BD Pharmingen, #555412, HIB19
CD13	APC	BD Pharmingen, #557454, WM15
Myogenin	Alexa Fluor 488	R&D Systems, #IC6686G, 671038
BODIPY	493/503	Life Technologies, #D-3922, N/A

**Supplementary Table S2.** Flow Cytometer Set-up

<b>Instrument:</b> Beckman Coulter Gallios						
<b>Laser Lines</b>	488 nm			633 nm		405 nm
<b>Emission Filters</b>	525/40	582/15	755LP	660/30	755LP	450/50
<b>Fluorochrome</b>	FITC	PE	PE-Cy7	APC	APC-Cy7	DAPI
	Alexa Fluor 488					
	BODIPY 493/503					

**Supplementary Table S3.** qPCR Primer Sequences

Gene	NCBI Gene ID	Forward	Reverse
POU5F1	5460	CGAGCAATTTGCCAAGCTCCTGAA	GCCGCAGCTTACACATGTTCTTGA
NANOG	79923	TATGCCTGTGATTTGTGGGCCTGA	CTGCAGAAGTGGGTTGTTGCCTT
MYH2	4620	TGAAGCTGTCAAGGGTCTACGCAA	TTCCTCCGCTTCTTCAGCTTGTCT
RPL13A	23521	CCTGGAGGAGAAGAGAAAGAGA	TTGAGGACCTCTGTGTATTTGTCAA
UBC	7316	ATTTGGGTCGCGGTTCTTG	TGCCTTGACATTCTCGATGGT

SUPPLEMENTARY DATA

**Supplementary Table S4.** WES Antibody and Assay Conditions

<b>Antibody</b>	<b>Manufacturer</b>	<b>Cat. No.</b>	<b>Ab Dilution</b>	<b>Sample [protein] (<math>\mu\text{g}/\mu\text{L}</math>)</b>
AMPK (p thr172)	Cell Signaling Technology	2535	1:50	0.2
Akt (p ser473)	Cell Signaling Technology	9275	1:50	0.4
$\beta$ -Actin	Cell Signaling Technology	4970	1:50	0.2
$\beta$ -catenin (total)	Cell Signaling Technology	9582	1:50	0.05
$\beta$ -catenin (p ser552)	Cell Signaling Technology	9566	1:25	0.4
$\beta$ -catenin (p thr41/ser45)	Cell Signaling Technology	9565	1:50	0.2
C/EBP $\beta$	Novus Biologicals	NB110-55642	1:25	0.4
GSK-3 $\beta$ (total)	Novus Biologicals	NBP1-47470	1:50	0.2
GSK-3 $\beta$ (p ser9)	Cell Signaling Technology	9323	1:50	0.4
MHC	R&D Systems	MAB4470	1:25	0.4
Myogenin	R&D Systems	MAB66861	1:25	0.4
FABP4	Novus Biologicals	NBP1-89218	1:20	0.4
PPAR $\gamma$	Cell Signaling Technology	2435	1:25	0.8 (0.4 for nuclear ext.)
STAT3 (p tyr705)	Cell Signaling Technology	9138	1:50	0.4